



**Version 4.6**

Prepared By:

UnifyCloud™

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## 1.Introduction

The purpose of this document is to assist the user (developer) on how to migrate an application, database, or application dependencies to the cloud (Azure) and determine the migration-readiness of an application or database for container services, app services, or virtual machine with the list of recommendations and remedies using **CloudPilot**® tool.

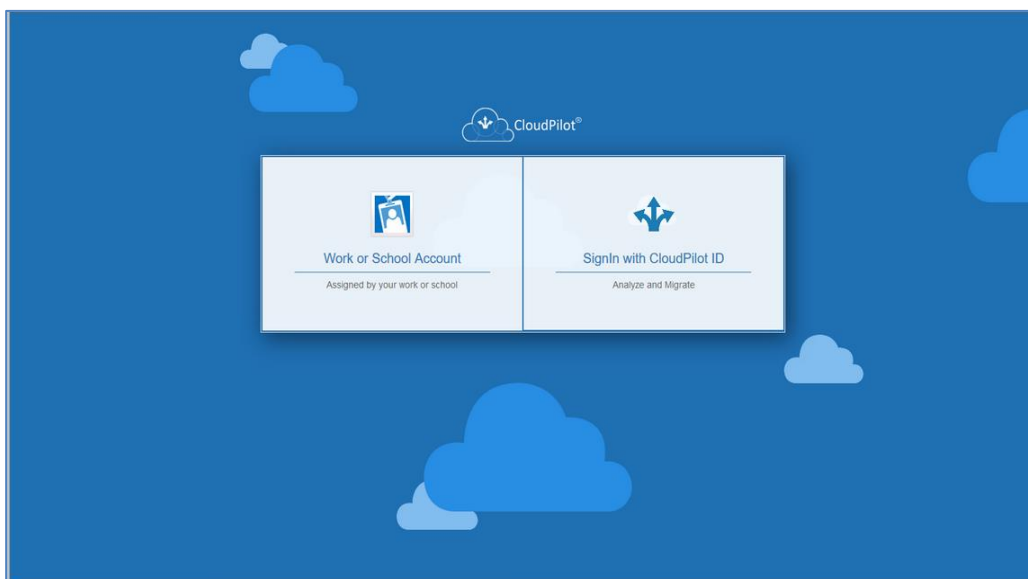
## 2.Using CloudPilot®

### 2.1 Registration

To use CloudPilot® tool, you need to register yourself.

1. Go to <https://cloudpilot.cloudatlasinc.com/>

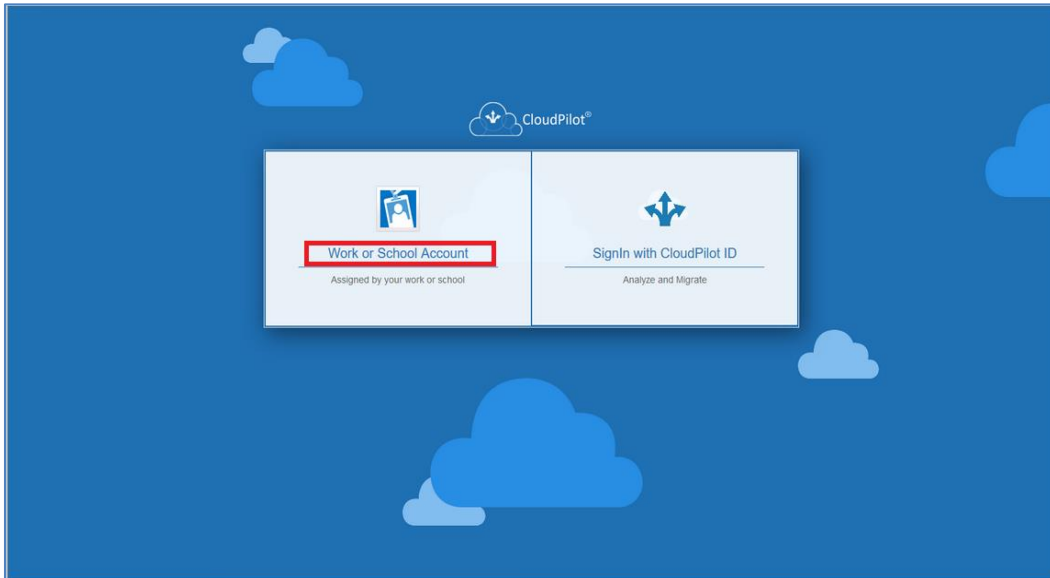
You will be directed to the Work or School Account authentication page of the CloudPilot® Portal as shown in [Figure 1: CloudPilot Home Page](#).



**Figure 1: CloudPilot Home Page**

2. Log in with your Work or School account on CloudPilot portal and click **Work or School Account** button to access CloudPilot as shown in [Figure 2: Work or School Account](#).

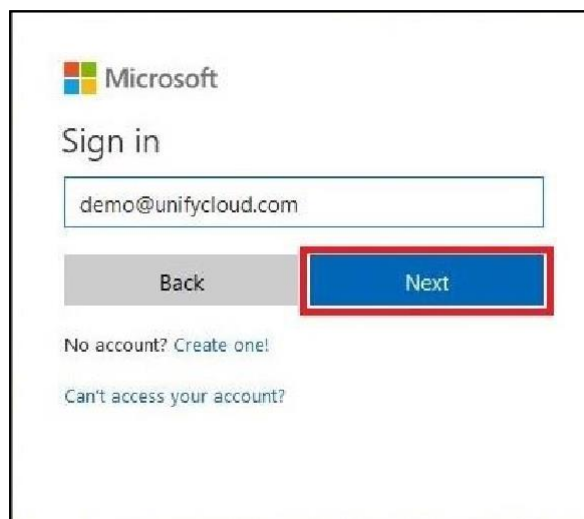
**NOTE:** If you do not have a Work or School account then you can **SignIn with your CloudPilot ID**. To generate a new CloudPilot ID, you can contact our support team on [support@unifycloud.com](mailto:support@unifycloud.com) or [click here](#).



**Figure 2: Work or School Account**

3. Enter your credentials and click **Next** to login as shown in [Figure 3: CloudPilot Portal - Sign In](#).

**NOTE:** If you do not have a Microsoft account then you need to create one, click **Create one** button as shown in [Figure 3: CloudPilot Portal - Sign In](#).

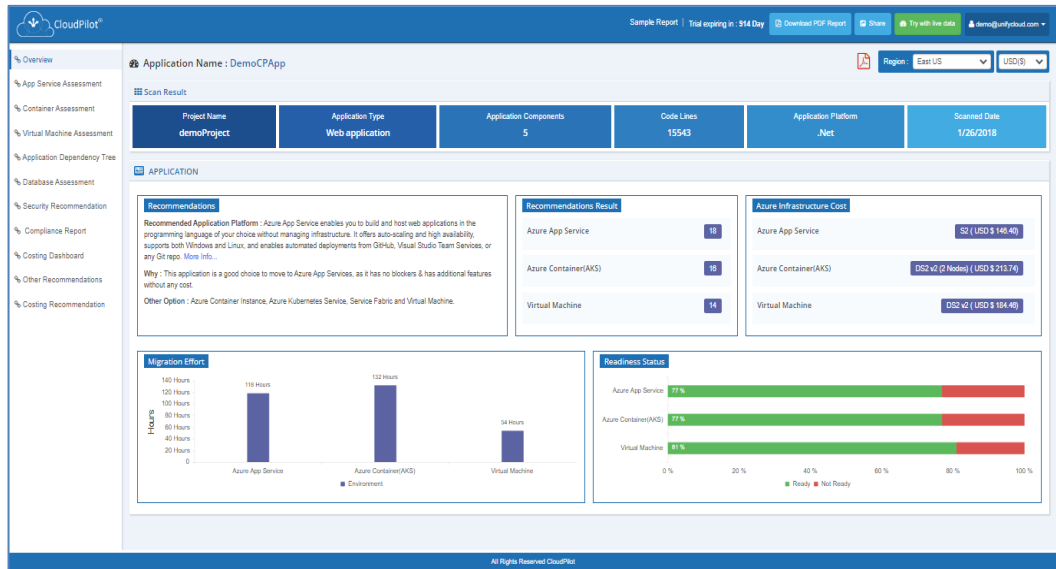


**Figure 3: CloudPilot Portal - Sign In**



Once you have signed into the CloudPilot portal, a report with sample data will appear.

- On the top right side of the CloudPilot page, click **Already have a license?** button to access the free services of CloudPilot as shown in [Figure 4: Sample Report Data](#).



**Figure 4: Sample Report Data**

## 2.2 Download CloudPilot® Migration Tool

Once you have activated the free trial services of CloudPilot, you will be redirected to the CloudPilot product page as shown in [Figure 5: CloudPilot Product Page](#).

### NOTE:

1. On the top right side of the CloudPilot product page, click **Reports with Sample Data**, if you need to review the sample reports again, as shown in [Figure 5: CloudPilot Product Page](#).
2. Once you are registered with CloudPilot portal, you will be able to download **CloudPilot Migration Tool**.
3. In case, you want to re-download **CloudPilot Migration Tool**, on the top left side of the CloudPilot dashboard, click **Download Product** tab as shown in [Figure 5: CloudPilot Product Page](#).

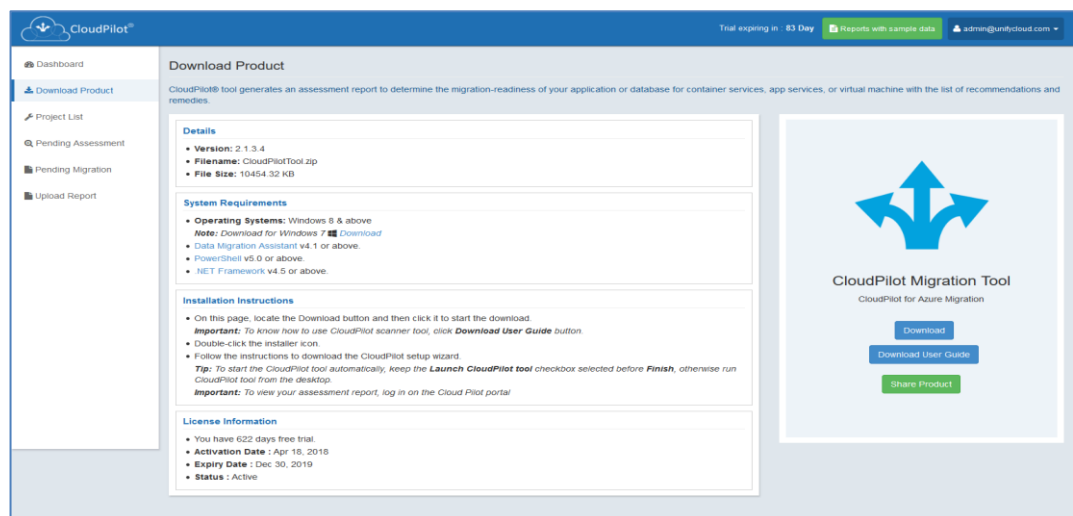
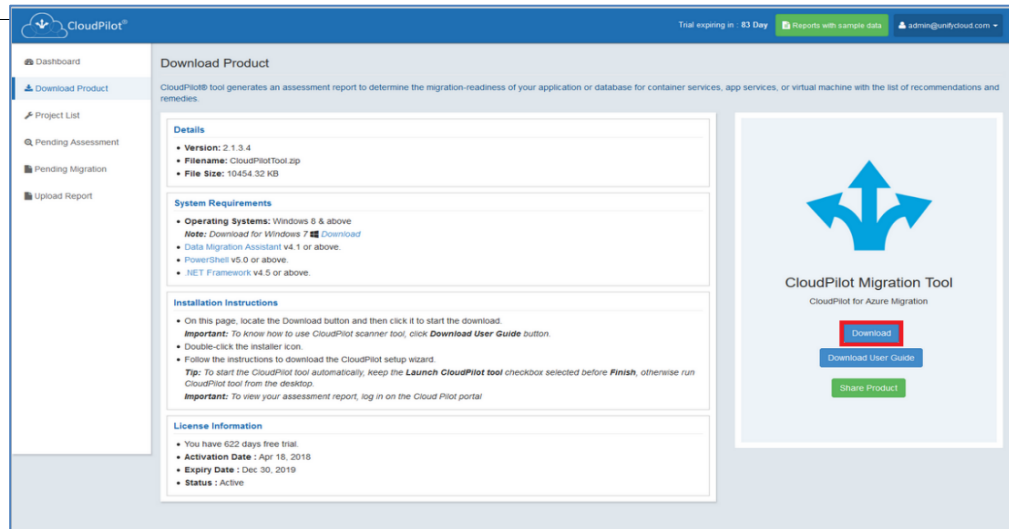


Figure 5: CloudPilot Product Page

5. Click **Download** and follow the instructions to install the **CloudPilot Migration Tool** on your machine as shown in [Figure 6: CloudPilot Migration Tool](#).
6. For more information on how to use the **CloudPilot Migration Tool**, click the **Download User Guide** button as shown in [Figure 6: CloudPilot Migration Tool](#).

**NOTE:** CloudPilot Migration Tool is compatible with **Windows 7 and above**. Migration not supported on Windows 7 version

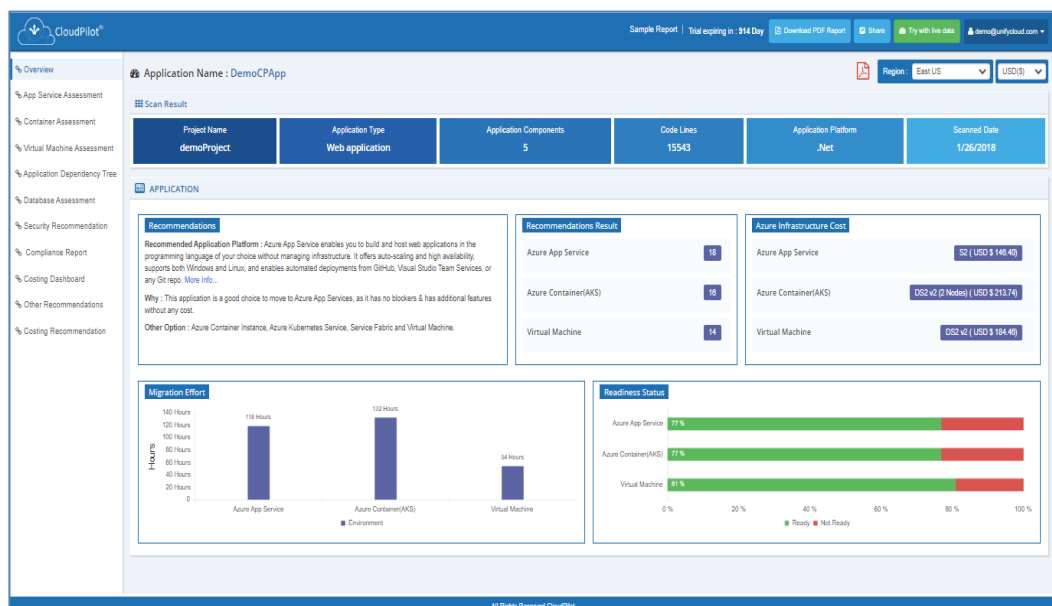


**Figure 6: CloudPilot Migration Tool**

7.

**NOTE:** After the CloudPilot Migration Tool is downloaded on your machine, you need to upload and scan your data as per the steps mentioned in [Chapter - 3: Cloud migration assessment using CloudPilot®](#) of this user guide.


the application is uploaded and scanned by the CloudPilot Migration Tool, click **Try with live data** to check your own application to get its migration assessment as shown in [Figure 7: Try with live data](#).



**Figure 7: Try with live data**


### 3.Cloud migration assessment using CloudPilot®


Follow the steps below to do cloud migration assessment of an application, database and other application dependencies that need to be migrated to Azure using **CloudPilot®** tool:


**NOTE:** At any time during the cloud migration assessment if you need to know about any text boxes just hover over **Help** button .

**NOTE:** Fields marked with \* are mandatory and needs to be filled or selected as per choice.

**NOTE:** At any time during the cloud migration assessment if you need to make any changes in your previous windows, click **Back** if applicable.

**NOTE:**  tab on the left-side of the CloudPilot Migration Tool is to add a new project.

**NOTE:**  tab on the left-side of the CloudPilot Migration Tool is to redirect to the window with the list of the projects if any.


**NOTE:**  tab on the left-side of the CloudPilot Migration Tool is to redirect to the window with image about viewing log files.

**NOTE:** To use the CloudPilot® tool:

1. You need to register on <https://cloudpilot.cloudatlasinc.com/>
2. You need to download CloudPilot Migration Tool on your system.

For more details, please go through our [Chapter - 2 - Using CloudPilot®](#).

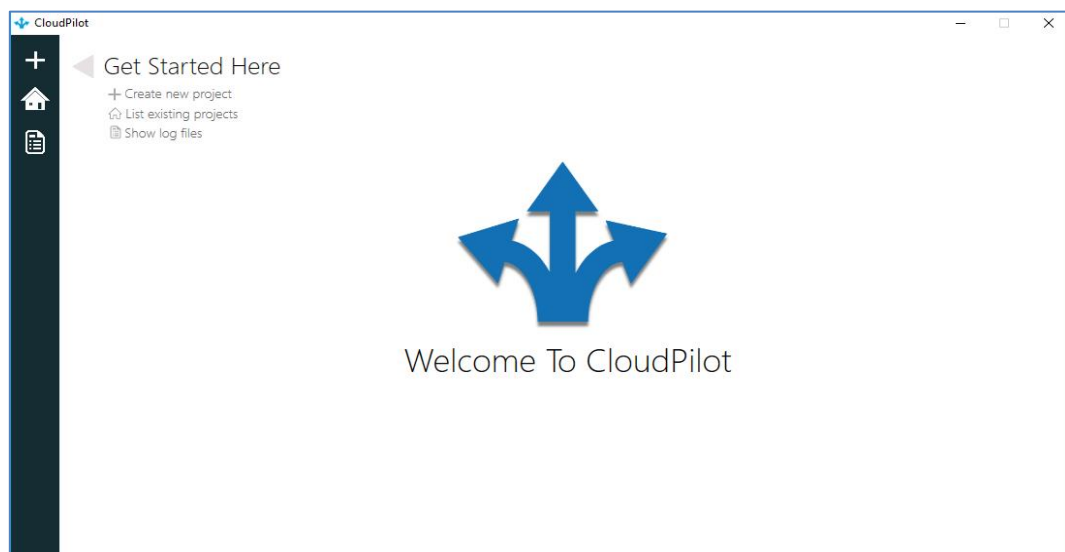
### 3.1 Create Project

1. Double-click the  icon as shown in [Figure 8: CloudPilot Tool Icon](#).



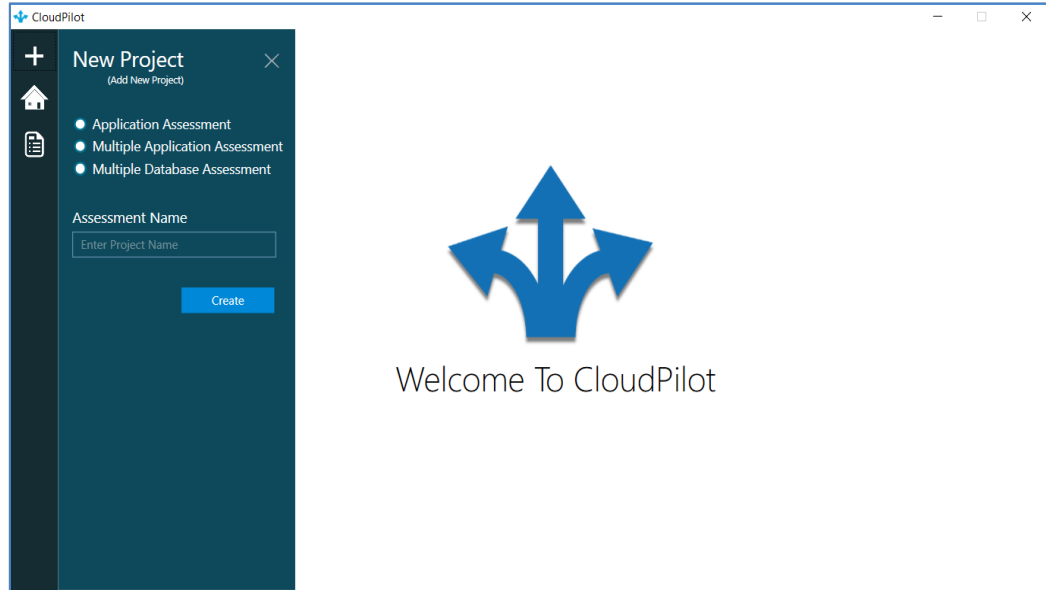
**Figure 8: CloudPilot Tool Icon**

A welcome screen with the title **CloudPilot** is displayed as shown in [Figure 9: Welcome Screen](#).



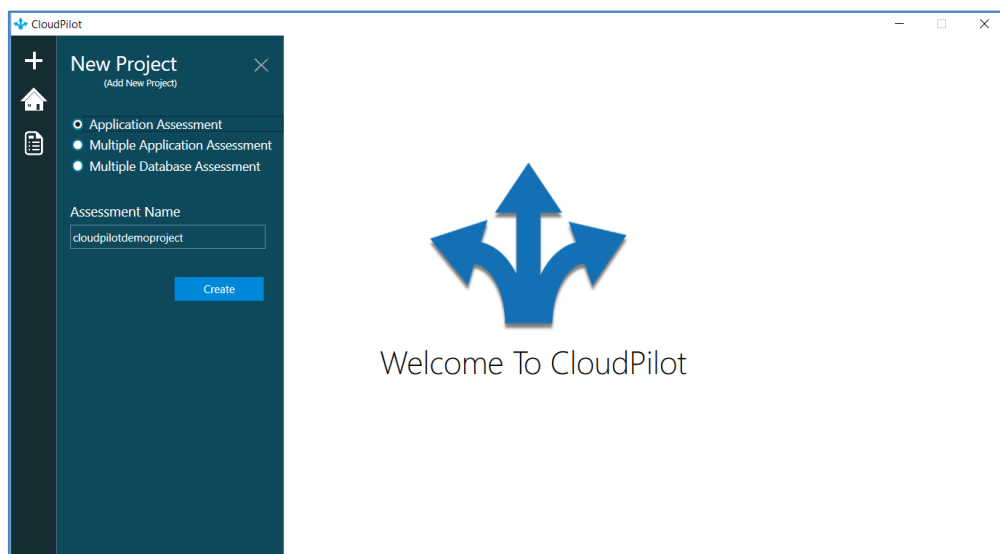
**Figure 9: Welcome Screen**

2. To start with a **New Project**, click **+** tab on the left-side of the CloudPilot Migration Tool as shown in [Figure 10: New Project](#).



**Figure 10: New Project**

3. Select the specific radio button for the type of project you want to create. There are three options given below –
  - I. Application Assessment – For Assessment of Single Application and Single Database at a time.
  - II. Multiple Application Assessment – For Assessment of Multiple Application at a time.
  - III. Multiple Database Assessment – For Assessment of Multiple Database at a time.
4. Select Application Assessment radio button. Enter the project name in the text box and click **Create** as shown in [Figure 11: Create Project](#).



**Figure 11: Create Project**

### 3.1.1 Add Application

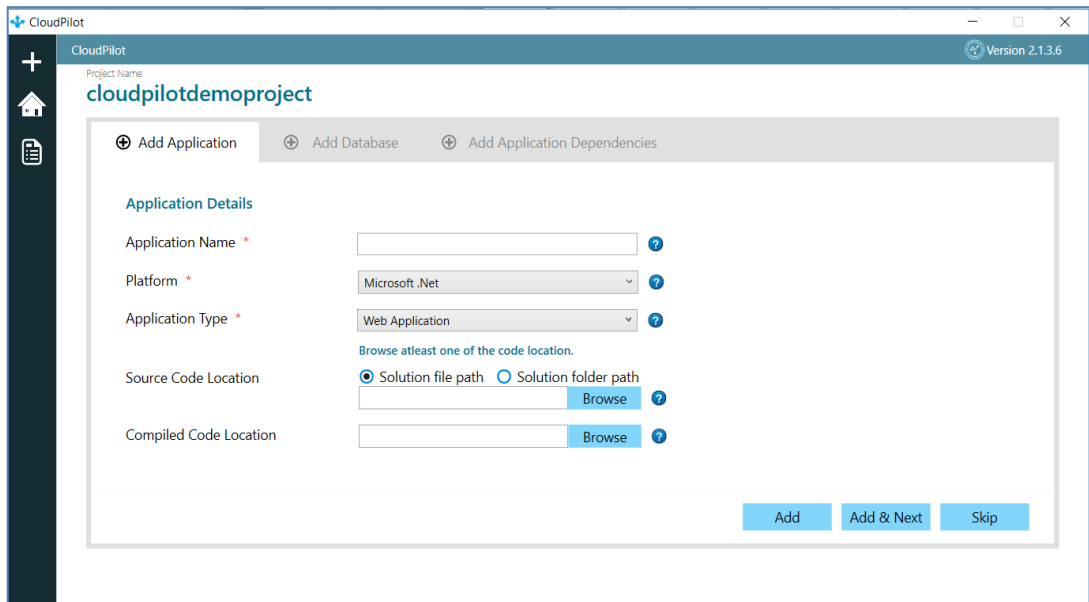
1. Enter the Application name.
2. Select Application Type as a Web application.

**NOTE:** You need to follow the same procedure for Windows services or Console application types.

3. Select Platform as Microsoft.Net as shown in

[Figure 12: Add Application Details – Microsoft.Net.](#)

**NOTE:** If you need to skip the details to be added later, click **Skip** you will be redirected to the screen as shown in [Figure 32: Thumbnails.](#)

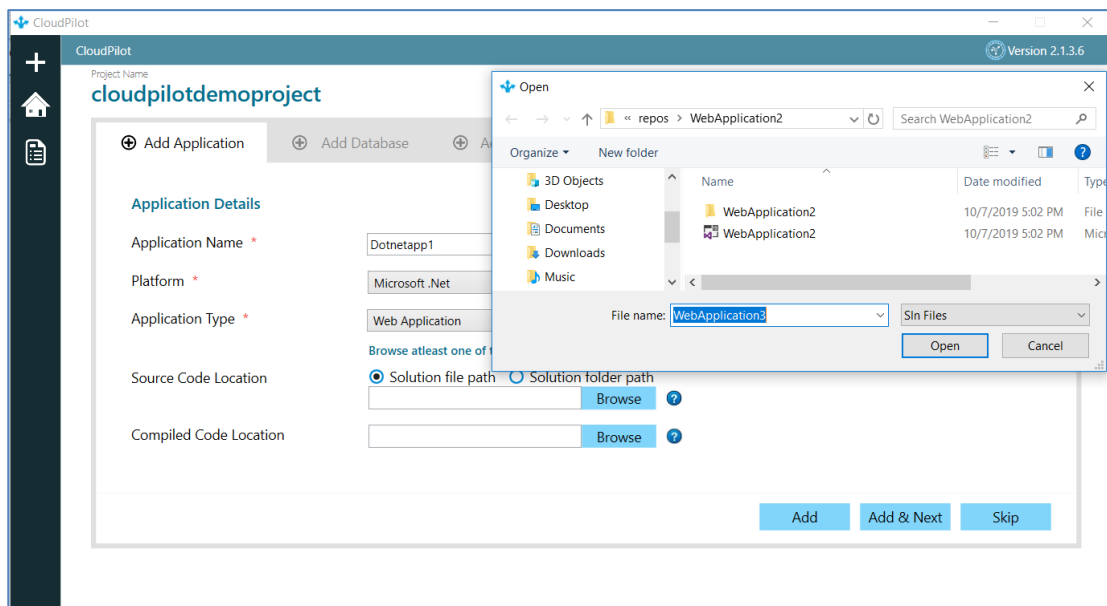


**Figure 12: Add Application Details – Microsoft.Net**

4. Under the Source Code Location section, click **Browse** and provide the path of your source application.

If you have the solution file, select the **Solution file path** radio button otherwise, you can directly select the project folder path by selecting the **Solution folder path** radio button as shown in [Figure 13: Application - Source Code Location](#).

**NOTE:** Browse at least one of the **Code Location** at one time.



**Figure 13: Application - Source Code Location**

5. Provide details of Compiled Code Location, click **Browse** and provide the path of your compiled code location as shown in [Figure 14: Browse – Compiled Code location](#).



+

CloudPilot

Version 2.1.3.6

Project Name

cloudpilottdemoproject

⊕ Add Application

⊕ Add Database

⊕ Add Application Dependencies

Application Details

Application Name \*

Dotnetapp1

?

Platform \*

Microsoft .Net

?

Application Type \*

Web Application

?

Source Code Location

☒ Solution file path
 ☐ Solution folder path

C:\Users\UCAAdministrator\source\repos

Browse

?

Compiled Code Location

Browse

?

Browse atleast one of the code location.

Add

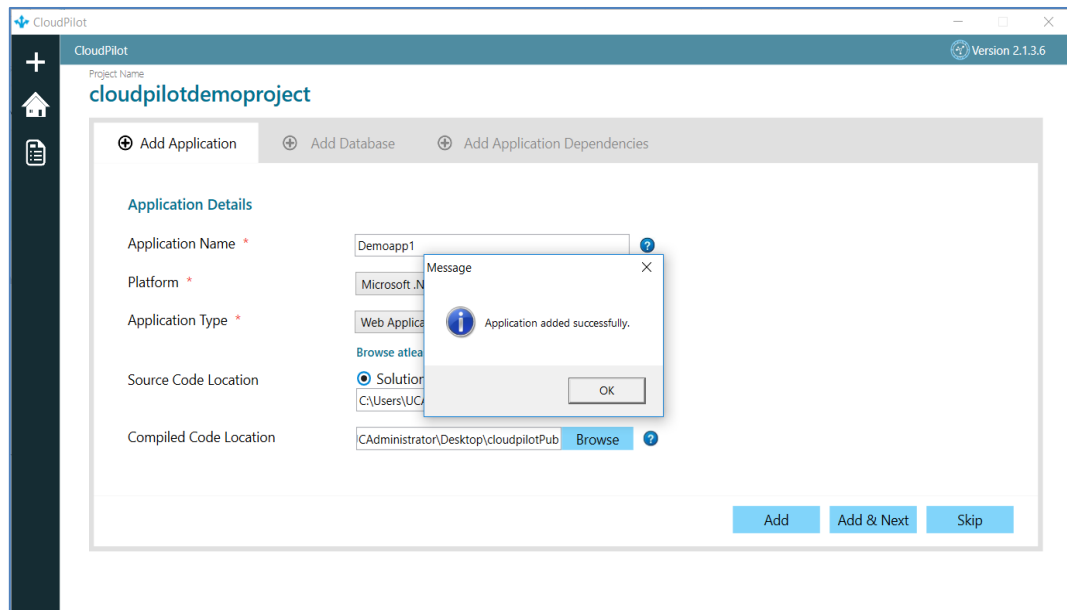
Add & Next

Skip

**Figure 14: Browse – Compiled Code location**

6. Once the application details are complete, click **Add & Next**.
7. You will get a dialog box with a message "Application added successfully," click **OK** as shown in [Figure 15: Application Added Successfully](#).

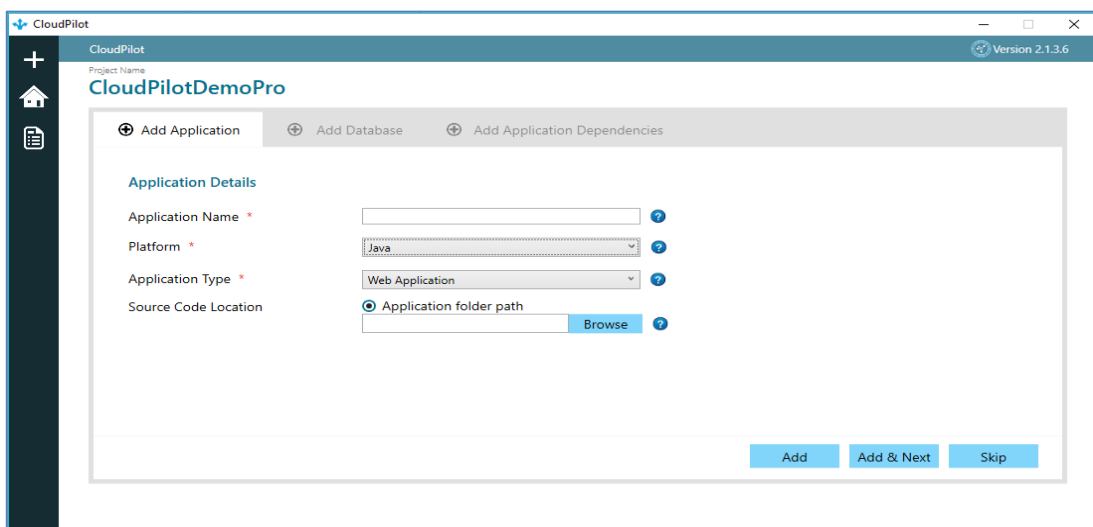
**NOTE:** If you want to add more than 1 application at one time, click **Add**.



**Figure 15: Application Added Successfully**

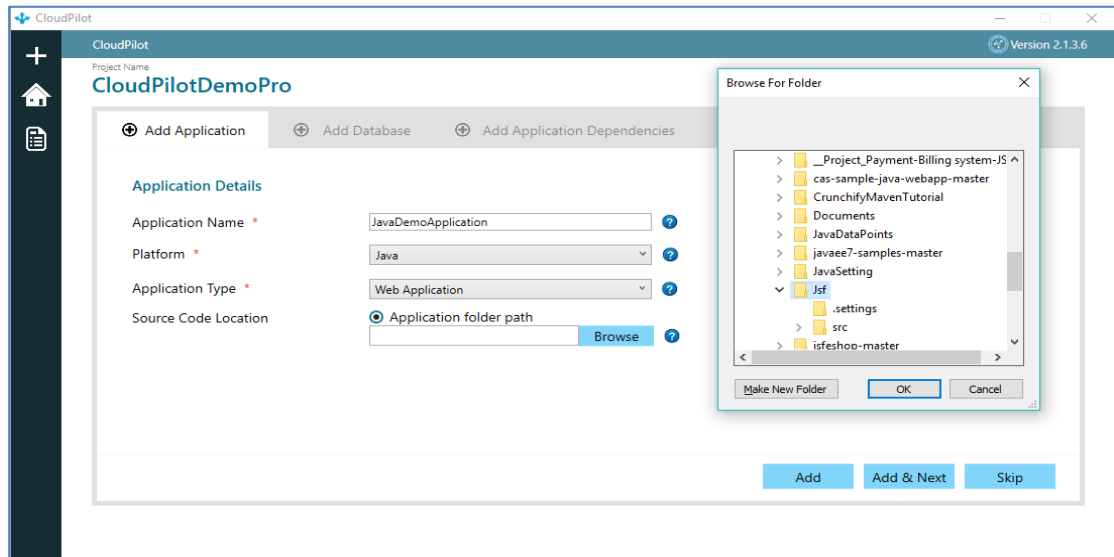
8. Select Platform as Java as shown in [Figure 16: Add Application Details – Java](#).

**NOTE:** If you need to skip the details to be added later, click **Skip** you will be redirected to the screen as shown in [Figure 32: Thumbnails](#).

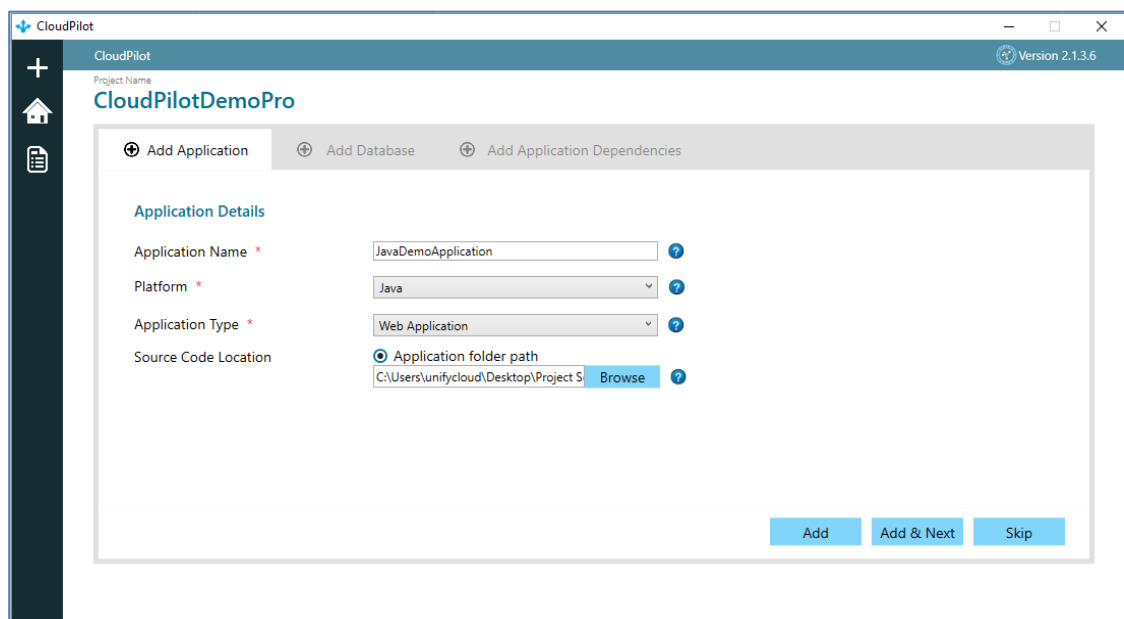


**Figure 16: Add Application Details – Java**

9. Under the Application folder path section, click Browse and provide the path of your Java source application.



**Figure 17: Java Application - Source Code Location**

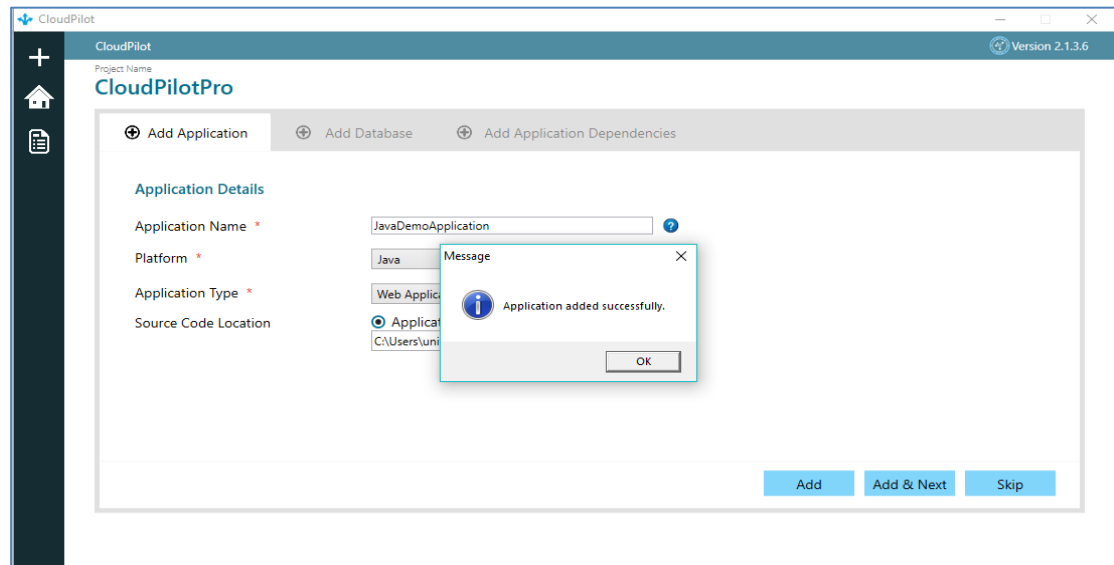


**Figure 18: All Details for Java Application provided**

10. Once the Java application details are complete, click **Add & Next**.

11. You will get a dialog box with a message "Application added successfully," click **OK** as shown in [Figure 19: Java Application Added Successfully](#).

**NOTE:** If you want to add more than 1 Java application at one time, click **Add**.

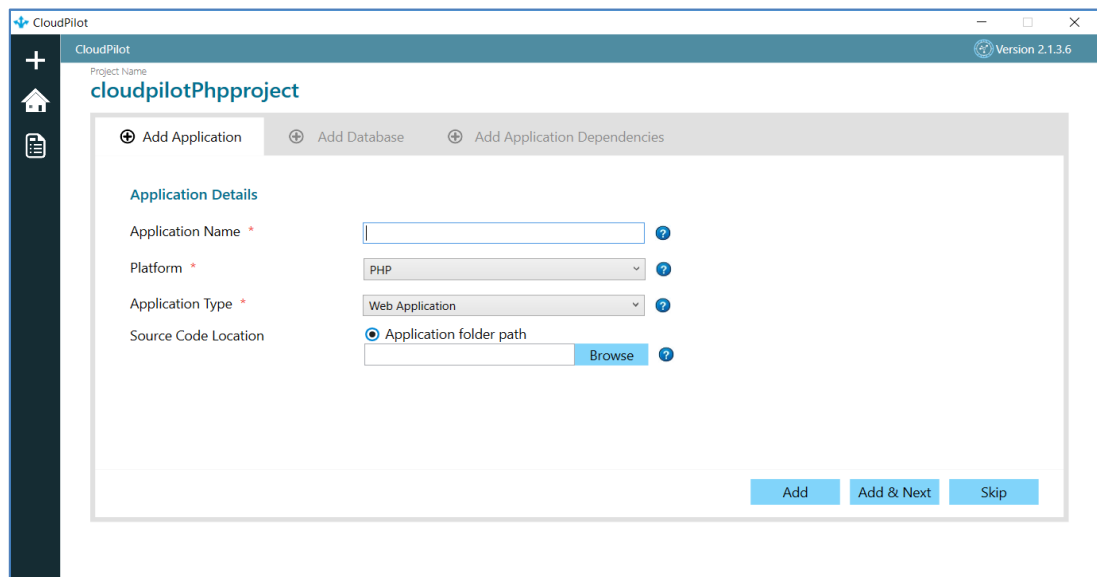


**Figure 19: Java Application Added Successfully**

**NOTE:** In a project, you can add applications and dependencies with either the .Net or Java or PHP application platform. You cannot have applications of multiple platforms in a single project.

12. Select Platform as PHP as shown in [Figure 19 A: Add Application Details – Php](#).

**NOTE:** If you need to skip the details to be added later, click **Skip** you will be redirected to the screen as shown in [Figure 32: Thumbnails](#).



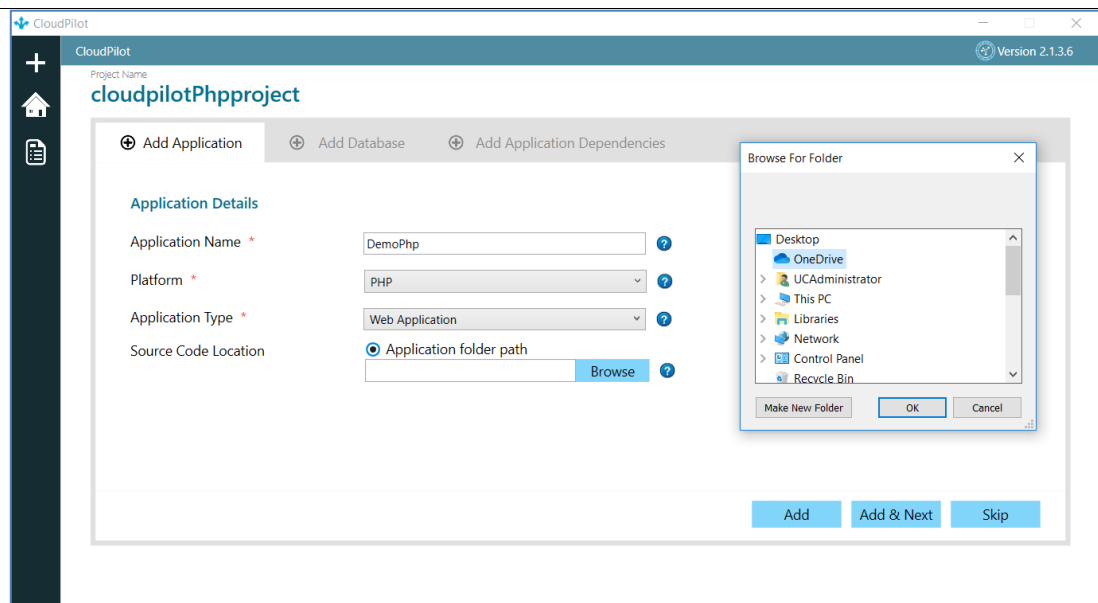
The screenshot shows the CloudPilot interface for adding a new application. The project name is 'cloudpilotPhpproject'. The 'Add Application' tab is active. The form fields are as follows:

- Application Name:** A text input field.
- Platform:** A dropdown menu set to 'PHP'.
- Application Type:** A dropdown menu set to 'Web Application'.
- Source Code Location:** A radio button selected for 'Application folder path' with a 'Browse' button next to it.

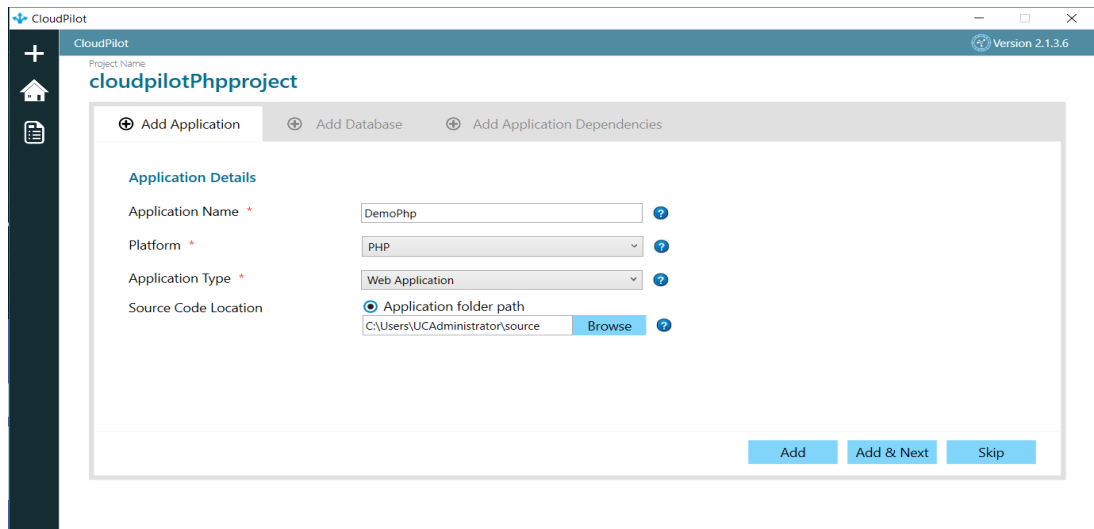
At the bottom right, there are three buttons: 'Add', 'Add & Next', and 'Skip'.

**Figure 19 A: Add Application Details -PHP**

13. Under the Application folder path section, click Browse and provide the path of your PHP source application.



**Figure 19 B: PHP Application - Source Code Location**



CloudPilot Version 2.1.3.6

Project Name: cloudpilotPhpproject

Buttons: Add Application, Add Database, Add Application Dependencies

Application Details:

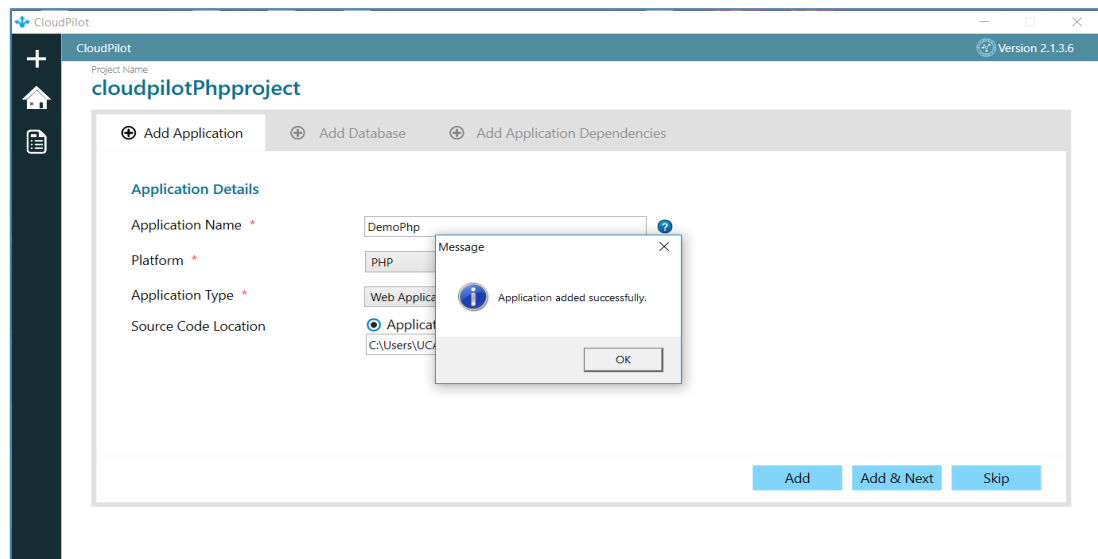
- Application Name: DemoPhp
- Platform: PHP
- Application Type: Web Application
- Source Code Location: C:\Users\UCAdministrator\source (Browse button)

Buttons: Add, Add & Next, Skip

**Figure 19 C: All Details for PHP Application provided**

14. Once the PHP application details are complete, click Add & Next.
15. You will get a dialog box with a message "Application added successfully," click **OK** as shown in [Figure 19 D: PHP Application Added Successfully](#).

**NOTE:** If you want to add more than 1 Java application at one time, click **Add**.



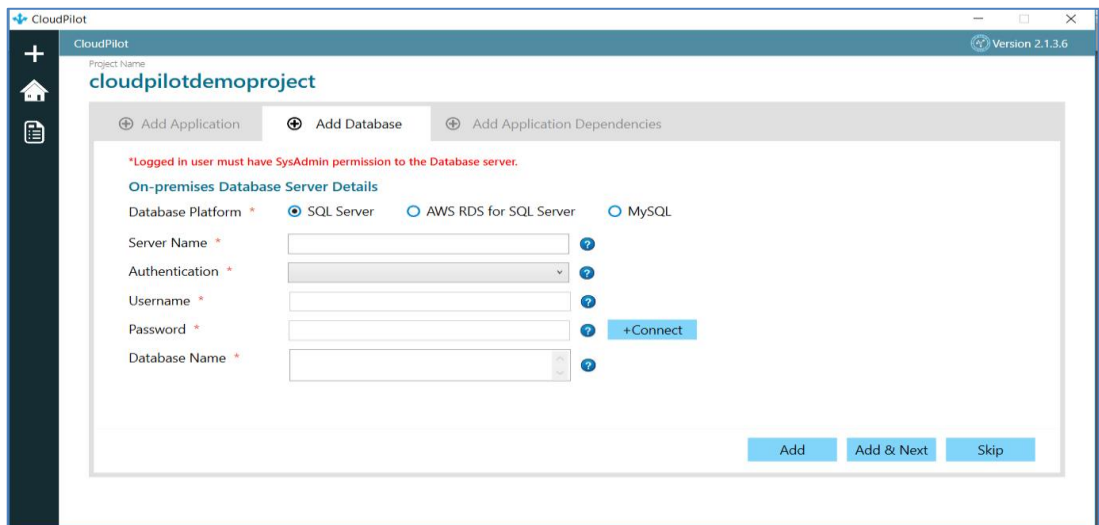
**Figure 19 D: PHP Application Added Successfully**

### 3.1.2 Add Database

**IMPORTANT:** \*Logged in user must have SysAdmin permission to the Database server.

**IMPORTANT:** Microsoft Data Migration Assistant should be installed to assess database. If you haven't downloaded, click on **click here** button to download as shown in [Figure 20: Add Database Details](#).

1. After the installation of Microsoft Data Migration Assistant. Enter the details of your **On-premises Database Server** as shown in [Figure 20: Add Database Details](#).



**Figure 20: Add Database Details**

2. Select the desired Database Platform radio button.

**NOTE:** For MySQL, database platform refer to [Figure 26: MySQL - Database Platform](#).

#### SQL Server – Database Platform

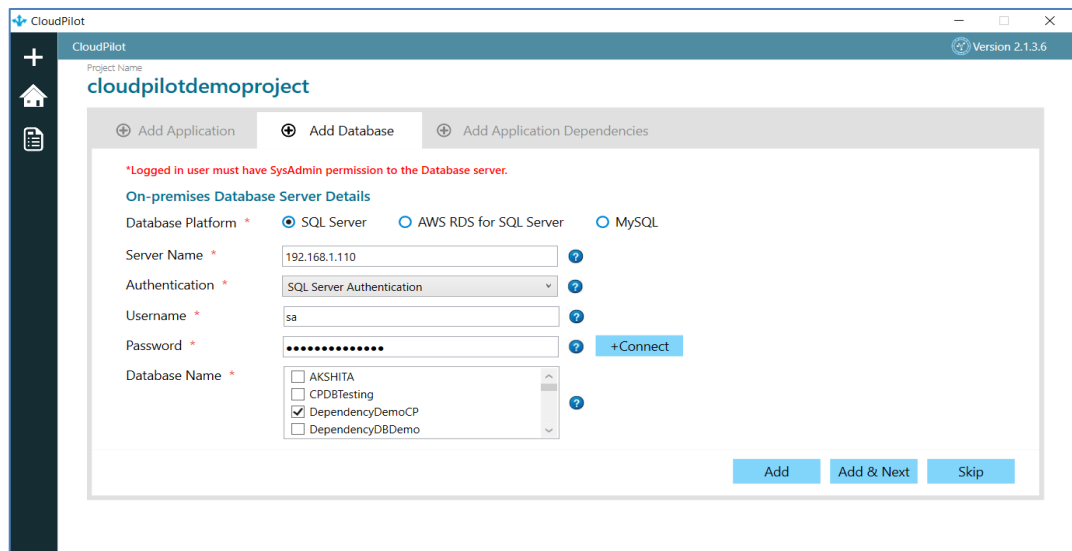
1. Enter Server Name.
2. Select the Authentication to your choice either to **SQL Server Authentication** or Windows Authentication.



**NOTE:** For SQL Server Authentication, you need to enter your credentials and click **+Connect** to connect to the cloud remote server.

## SQL Server Authentication

1. Select authentication as SQL Server Authentication.
2. Enter your credentials and click **+Connect** to connect to the cloud remote server as shown in [Figure 21: Authentication – SQL Server](#).

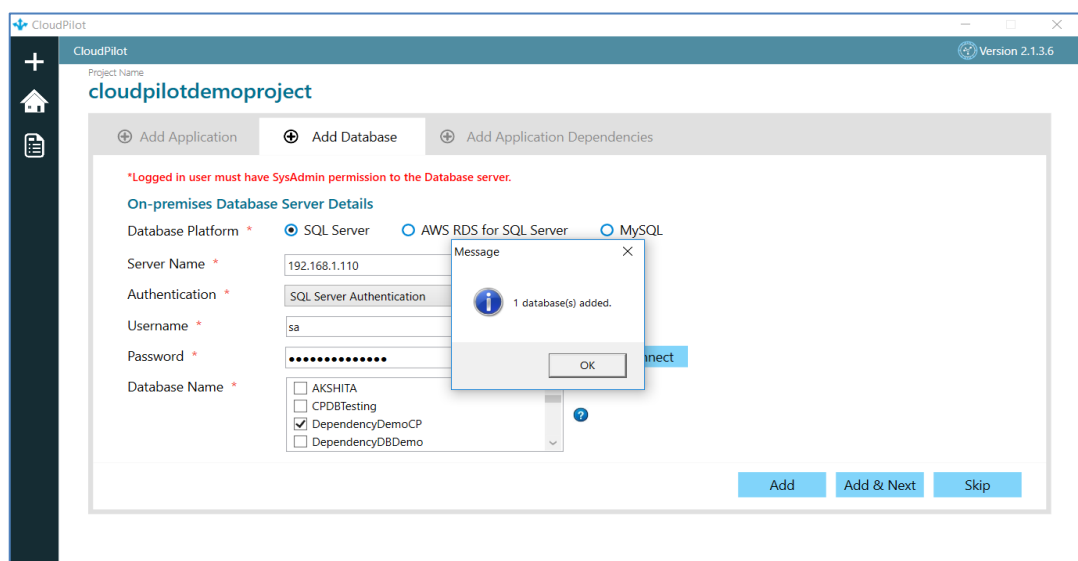


**Figure 21: Authentication – SQL Server**

3. Click **Add & Next**.

**NOTE:** If you want to add more than 1 database select the **Database Name** check box and click **Add**.

4. You will get a dialog box with a message "1 Database (s) added", click **OK** as shown in [Figure 22: Database Added](#).



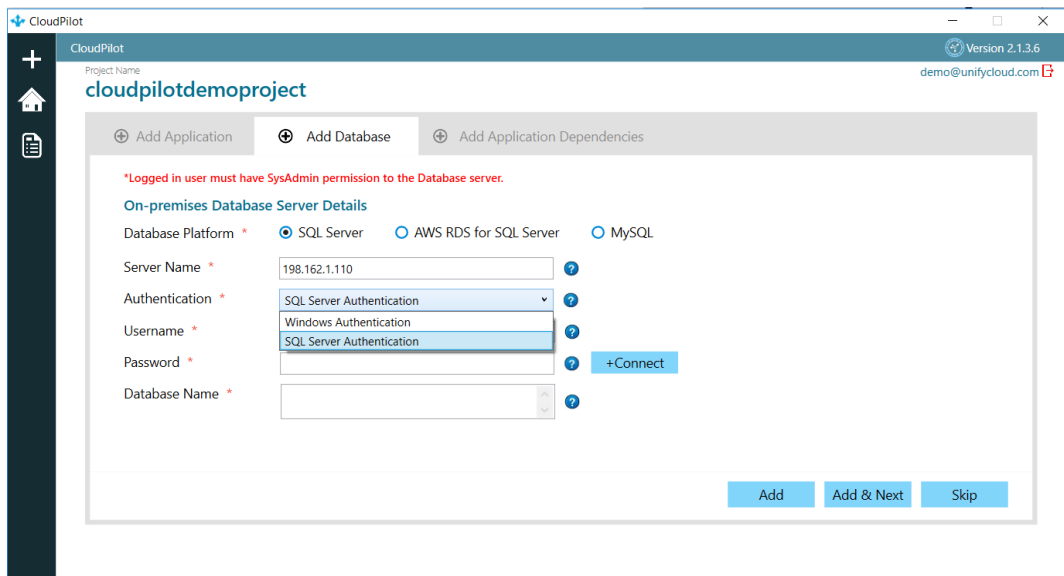
---

**Figure 22: Database Added**

## Windows Authentication

1. Select authentication as Windows as shown in [Figure 23: Authentication – Windows](#).

**NOTE:** If you select **Windows Authentication**, no username and password need to be entered.



The screenshot shows the CloudPilot application window with the 'Add Database' tab selected. The project name is 'cloudpilottdemoproject'. The 'On-premises Database Server Details' section is active. Under 'Database Platform', 'SQL Server' is selected. The 'Server Name' is '198.162.1.110'. In the 'Authentication' dropdown, 'Windows Authentication' is selected. The 'Username' and 'Password' fields are empty. The 'Database Name' field is also empty. A '+Connect' button is visible next to the password field. At the bottom, there are 'Add', 'Add & Next', and 'Skip' buttons.

**Figure 23: Authentication – Windows**

2. Select the specific Database Name check box as shown in [Figure 24: Select Database Name](#).

**NOTE:** If you want to add more than 1 database, select the **Database Name** check box and click **Add**.

CloudPilot

Version 2.1.3.6

+

Home

Menu

Project Name

cloudpilotdemoproject

+

 Add Application
 

+

 Add Database
 

+

 Add Application Dependencies

**\*Logged in user must have SysAdmin permission to the Database server.**

**On-premises Database Server Details**

Database Platform \*

☒ SQL Server
 ☐ AWS RDS for SQL Server
 ☐ MySQL

Server Name \*

192.168.1.110

Authentication \*

SQL Server Authentication

Username \*

sa

Password \*

.....

+Connect

Database Name \*

☐ AKSHITA  
☐ CPDBTesting  
☒ DependencyDemoCP  
☐ DependencyDBDemo

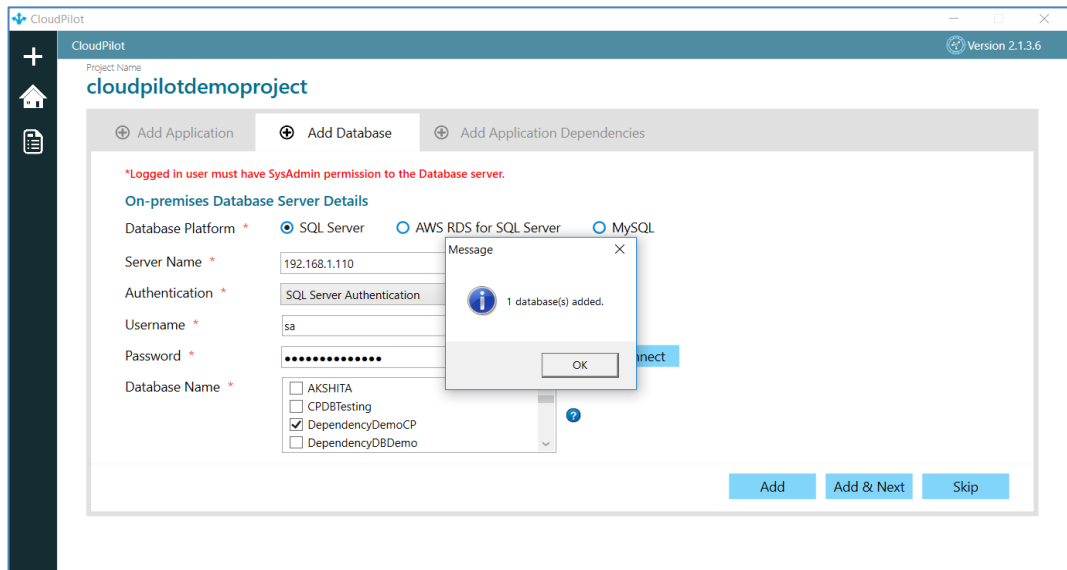
Add

Add & Next

Skip

**Figure 24: Select Database Name**

3. Once the Database details are complete, click **Add & Next**.
4. You will get a dialog box with a message "1 Database(s) added successfully ", click **OK** as shown in [Figure 25: Database Added](#).

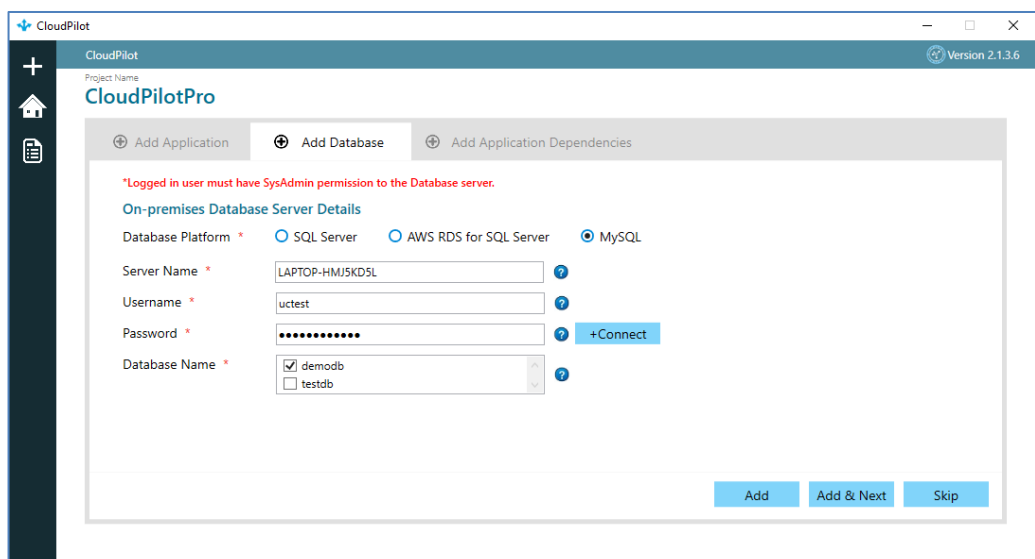


**Figure 25: Database Added**

## MySQL - Database Platform

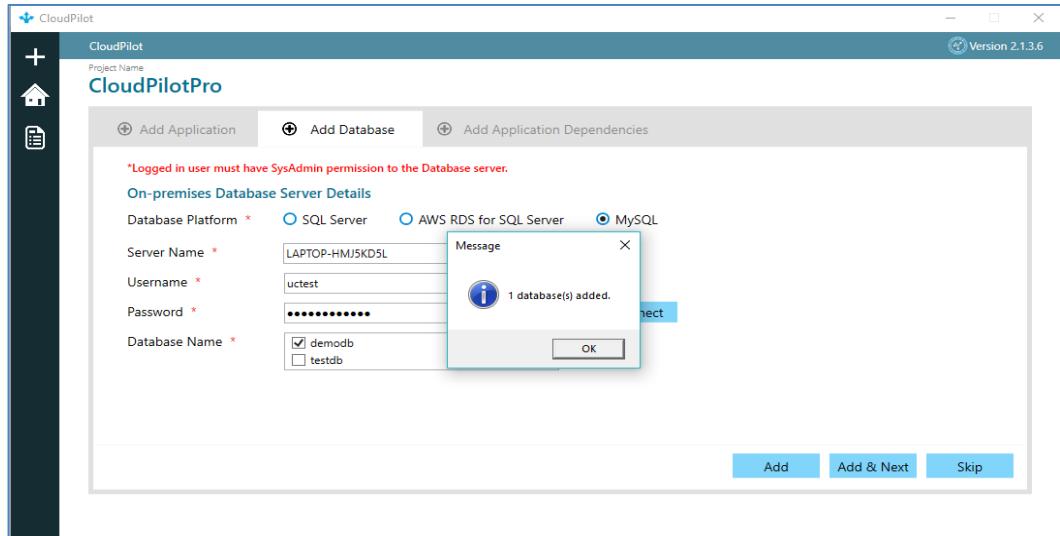
1. Enter the Server Name. Enter your credentials and click **+Connect** to connect to the cloud remote server as shown in [Figure 26: MySQL - Database Platform](#).
2. Select the specific Database Name check box as shown in [Figure 26: MySQL - Database Platform](#).

**NOTE:** If you want to add more than 1 database, select the **Database Name** check box and click **Add**.



**Figure 26: MySQL - Database Platform**

- Once the Database details are complete, click **Add & Next**.
- You will get a dialog box with a message "1 Database(s) added successfully ", click **OK** as shown in [Figure 27: MySQL Database Added](#).

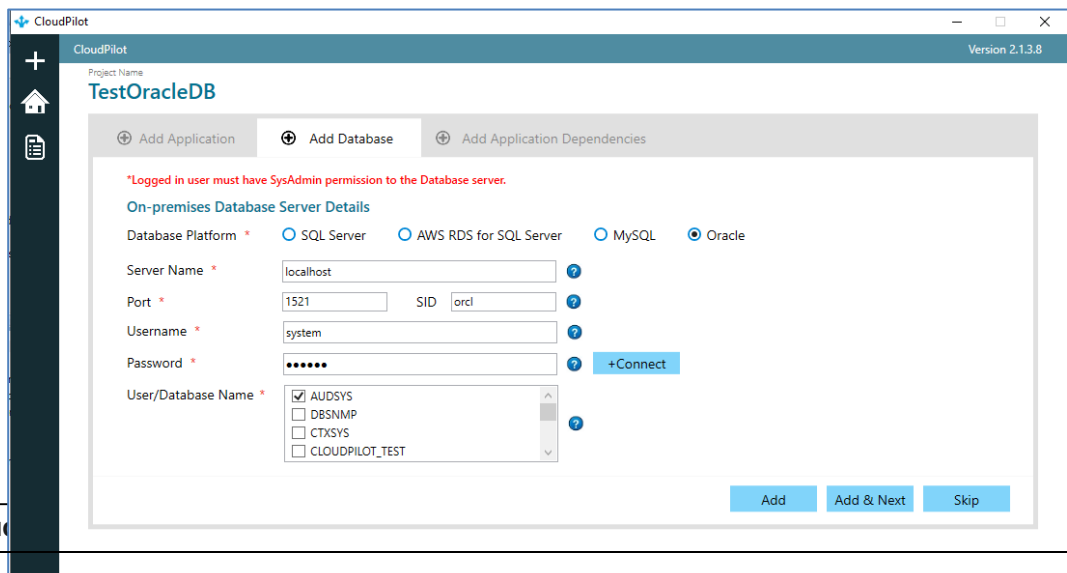


**Figure 27: MySQL Database Added**

### Oracle- Database Platform

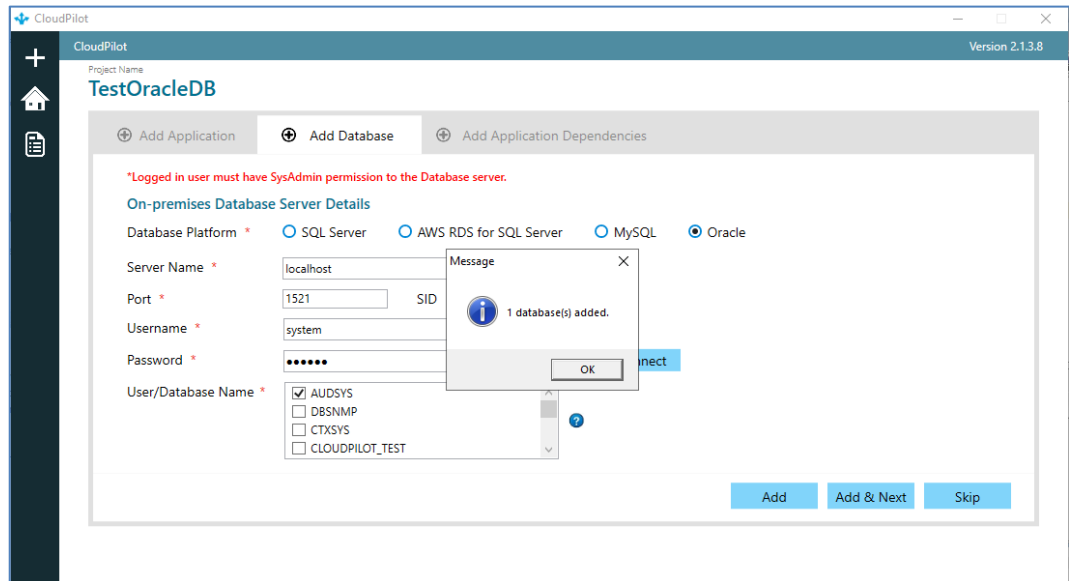
- Enter the Server Name.
- Enter your credentials and click **+Connect** to connect to the cloud remote server as shown in [Figure 28: Oracle- Database Platform](#).
- Select the specific Database Name check box as shown below [Figure 28: Oracle - Database Platform](#).

**NOTE:** If you want to add more than 1 database, select the **Database Name** check box and click **Add**.



**Figure 28: Oracle- Database Platform**

4. Once the Database details are complete, click **Add & Next**.
5. You will get a dialog box with a message "1 Database(s) added successfully ", click **OK** as shown in [Figure 28: Oracle Database Added](#).



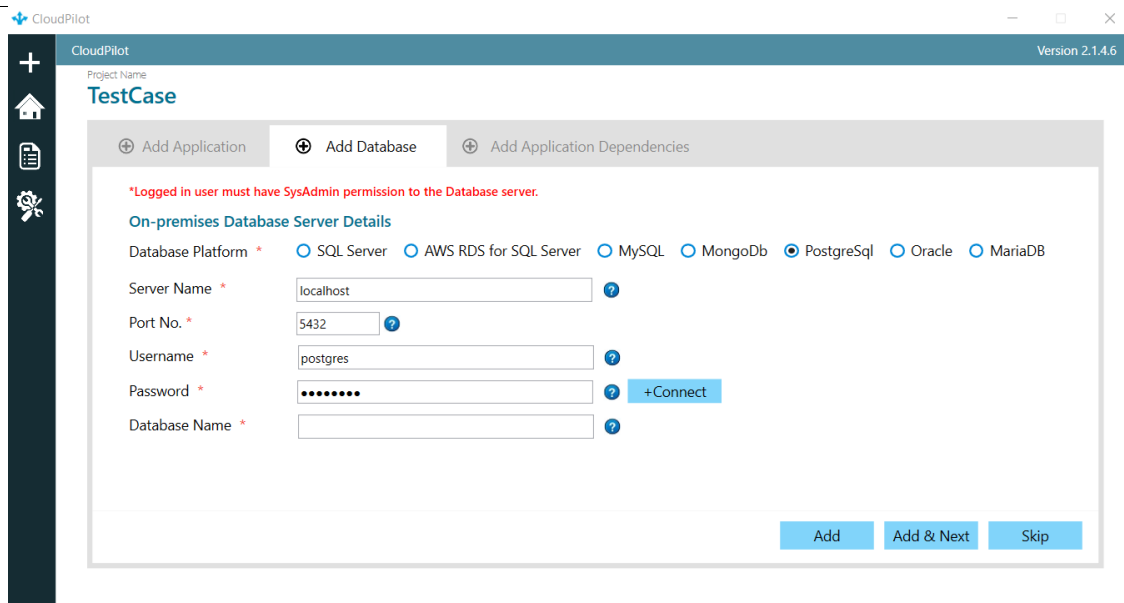
**Figure 28: Oracle Database Added**

### PostgreSQL - Database Platform

5. Enter the Server Name. Enter your credentials and click **+Connect** to connect to the cloud remote server as shown in [Figure 28A: PostgreSQL - Database Platform](#).
6. Select the specific Database Name check box as shown in [Figure 28A: MySQL - Database Platform](#).

**NOTE:** If you want to add more than 1 database, select the **Database Name** check box and click **Add**.





CloudPilot Version 2.1.4.6

Project Name: **TestCase**

Buttons: + Add Application, + Add Database, + Add Application Dependencies

\*Logged in user must have SysAdmin permission to the Database server.

**On-premises Database Server Details**

Database Platform \* ☐ SQL Server ☐ AWS RDS for SQL Server ☐ MySQL ☐ MongoDB ☒ PostgreSQL ☐ Oracle ☐ MariaDB

Server Name \*  ?

Port No. \*  ?

Username \*  ?

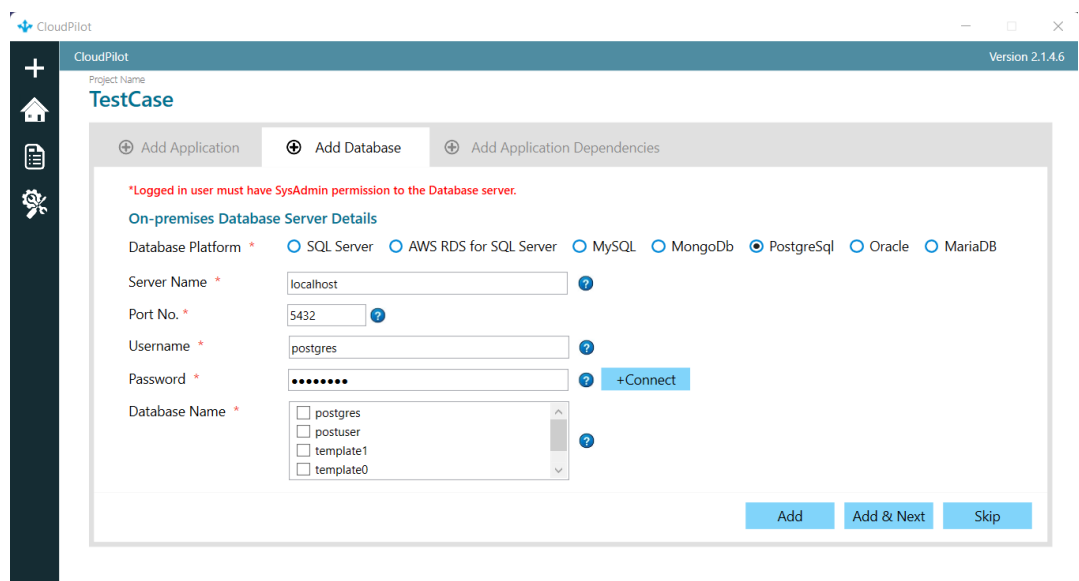
Password \*  ? [+Connect](#)

Database Name \*  ?

Buttons: Add, Add & Next, Skip

**Figure 28A: PostgreSQL - Database Platform**

- If you want to add more than one database, select database names as shown in Figure 28B below.



CloudPilot Version 2.1.4.6

Project Name: **TestCase**

Buttons: + Add Application, + Add Database, + Add Application Dependencies

\*Logged in user must have SysAdmin permission to the Database server.

**On-premises Database Server Details**

Database Platform \* ☐ SQL Server ☐ AWS RDS for SQL Server ☐ MySQL ☐ MongoDB ☒ PostgreSQL ☐ Oracle ☐ MariaDB

Server Name \*  ?

Port No. \*  ?

Username \*  ?

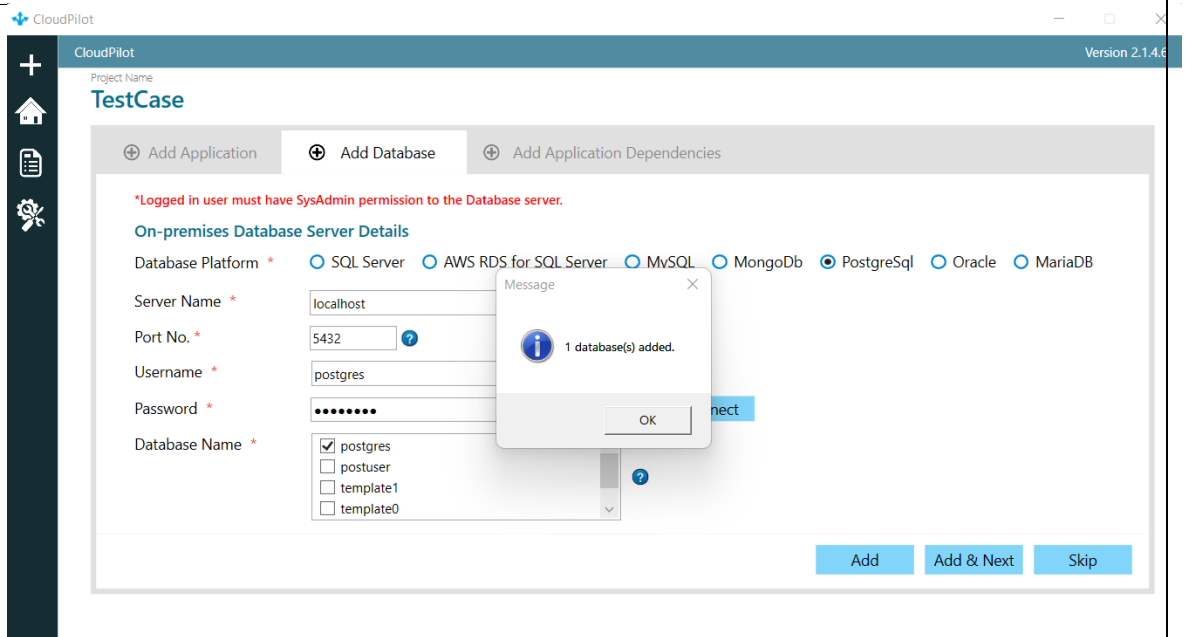
Password \*  ? [+Connect](#)

Database Name \* ☐ postgres ☐ postuser ☐ template1 ☐ template0 ?

Buttons: Add, Add & Next, Skip

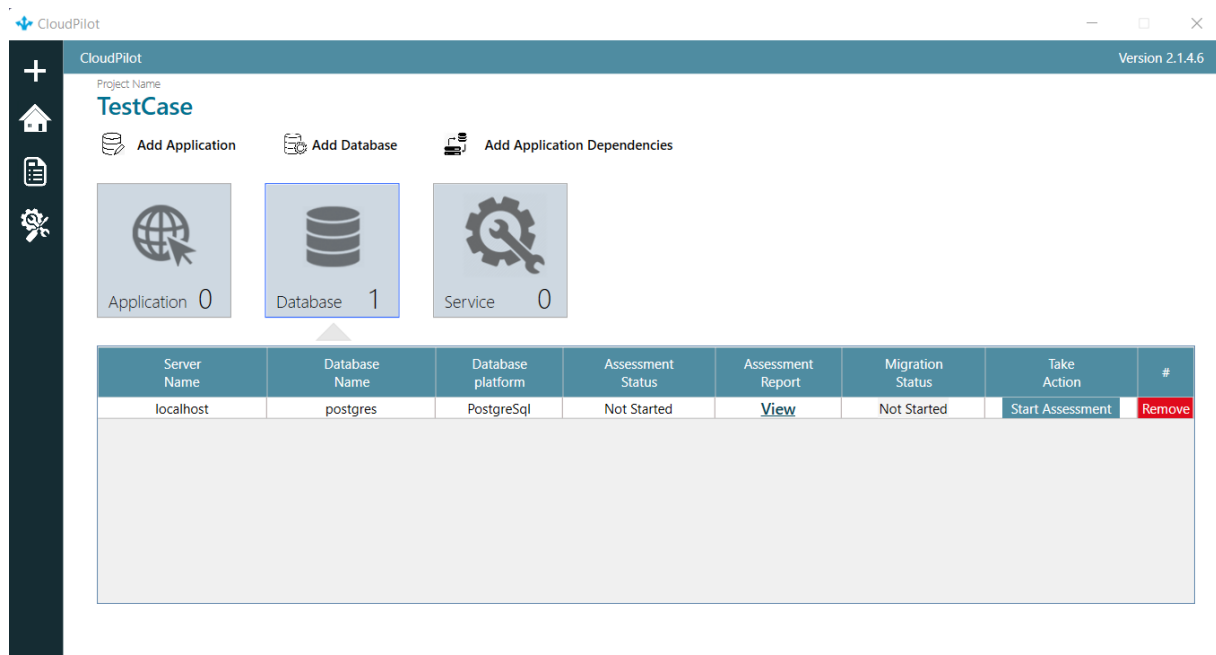
**Figure 28B: PostgreSQL – Select Database Name**

- Once the Database details are complete, click **Add & Next**.
- You will get a dialog box with a message "1 Database(s) added successfully ", click **OK** as shown in [Figure 28C: PostgreSQL Database Added](#).



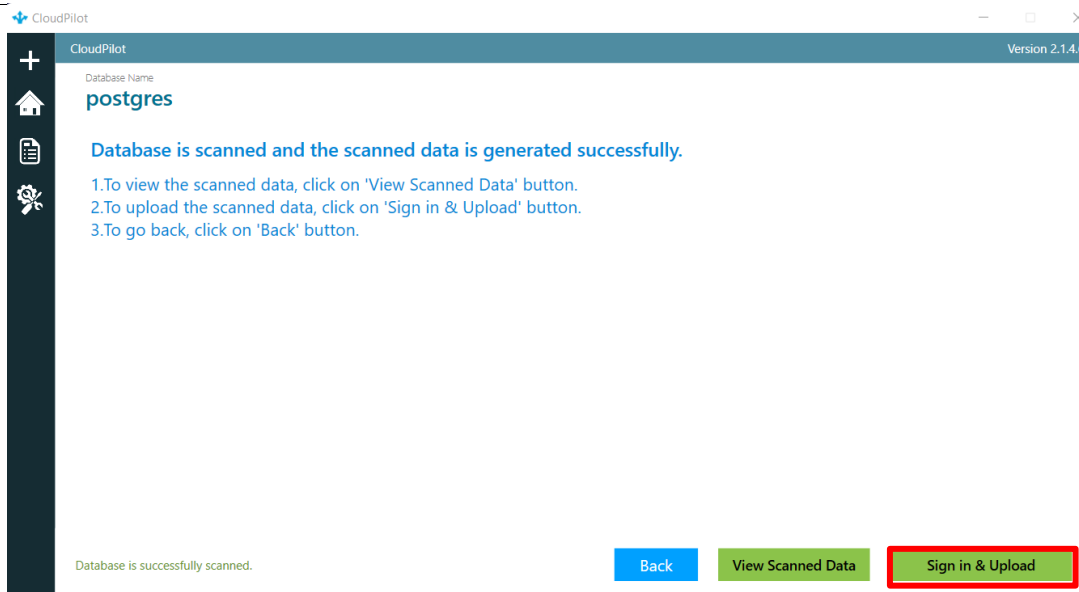
**Figure 28C: PostgreSQL – Database added successfully**

10. . After the database is added successfully, you can start the assessment. Click on the button shown in [Figure 28D: Start Assessment](#).



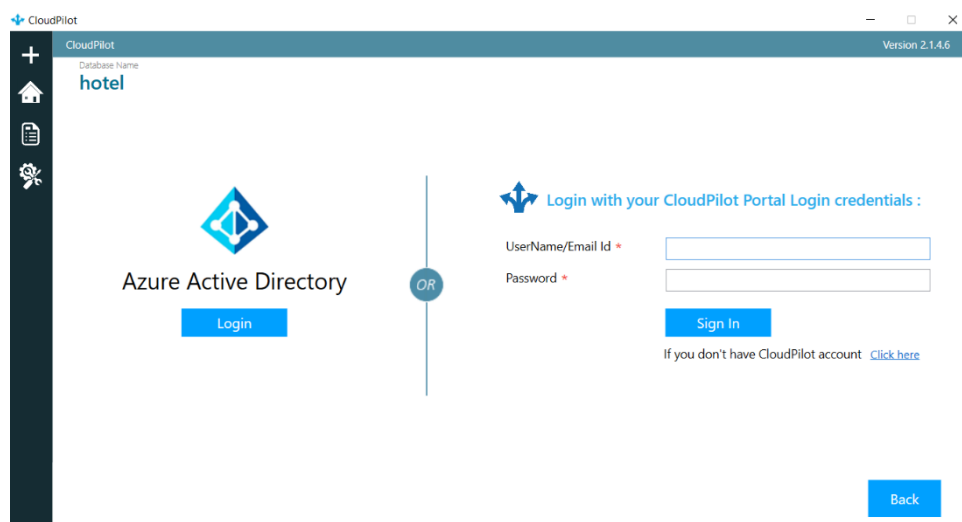
**Figure 28D: Start Assessment**

11. After the database is assessed, you can sign in and upload as shown in [Figure 28E: Sign in & Upload](#).



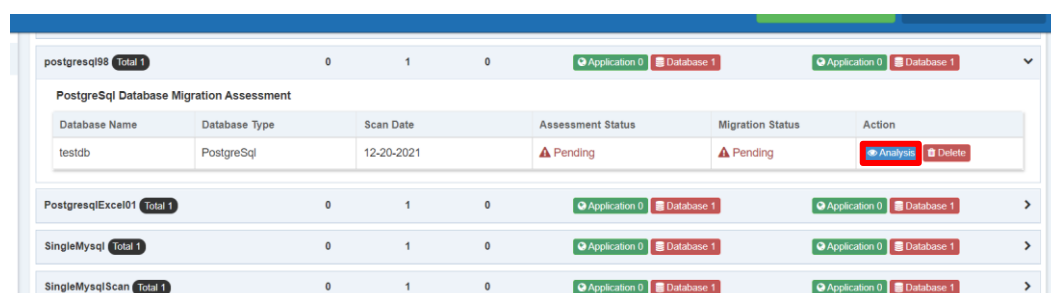
**Figure 28E: Sign in and upload**

12. After clicking on sign and upload, you will land on the sign-in page for the CloudPilot portal. Enter your credentials and click on sign in as shown in [Figure 28 Ei.](#) below.



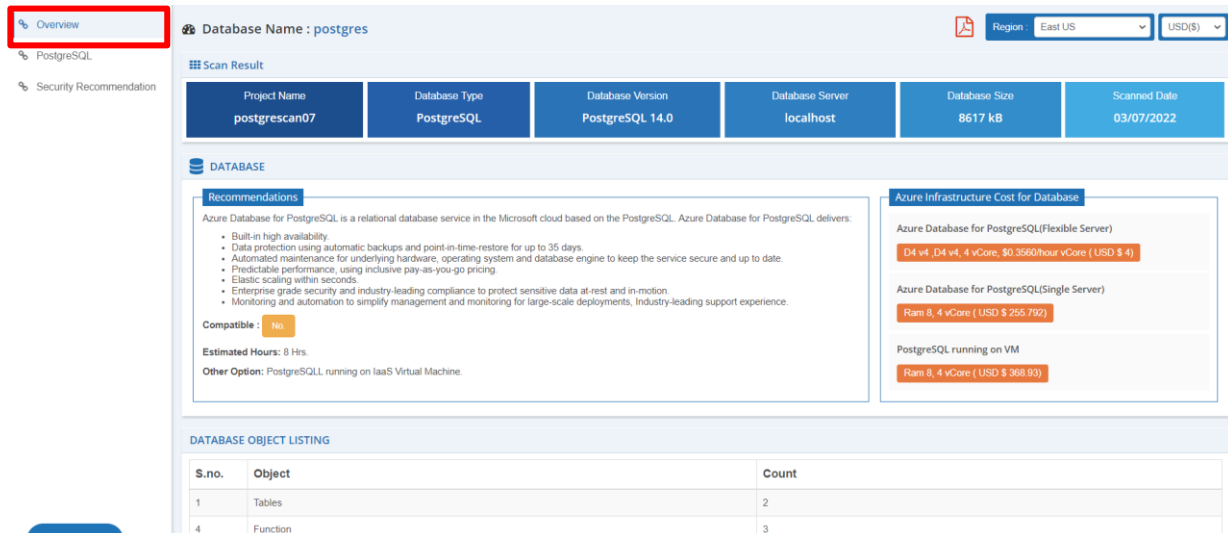
**Figure 28E i: CloudPilot Portal Sign-in**

13. After signing in to the CloudPilot portal, please access the dashboard, and click on the 'analysis' button as shown in [Figure 28F.](#)



**Figure 28F: PostgreSQL Assessment Dashboard**

14. After database analysis is conducted by the tool, click on 'Overview' section as shown in [Figure 28G: PostgreSQL Database Report](#).



**Database Name : postgres** Region: East US USD(\$)

**Scan Result**

Project Name	Database Type	Database Version	Database Server	Database Size	Scanned Date
postgrescan07	PostgreSQL	PostgreSQL 14.0	localhost	8617 kB	03/07/2022

**DATABASE**

**Recommendations**

Azure Database for PostgreSQL is a relational database service in the Microsoft cloud based on the PostgreSQL. Azure Database for PostgreSQL delivers:

- Built-in high availability.
- Data protection using automatic backups and point-in-time-restore for up to 35 days.
- Automated maintenance for underlying hardware, operating system and database engine to keep the service secure and up to date.
- Predictable performance, using inclusive pay-as-you-go pricing.
- Elastic scaling within seconds.
- Enterprise grade security and industry-leading compliance to protect sensitive data at-rest and in-motion.
- Monitoring and automation to simplify management and monitoring for large-scale deployments, Industry-leading support experience.

Compatible: **No**

Estimated Hours: 8 Hrs.

Other Option: PostgreSQL running on IaaS Virtual Machine.

**Azure Infrastructure Cost for Database**

Azure Database for PostgreSQL(Flexible Server)

D4 v4, D4 v4, 4 vCore, \$0.3560/hour vCore (USD \$ 4)

Azure Database for PostgreSQL(Single Server)

Ram 8, 4 vCore (USD \$ 255.792)

PostgreSQL running on VM

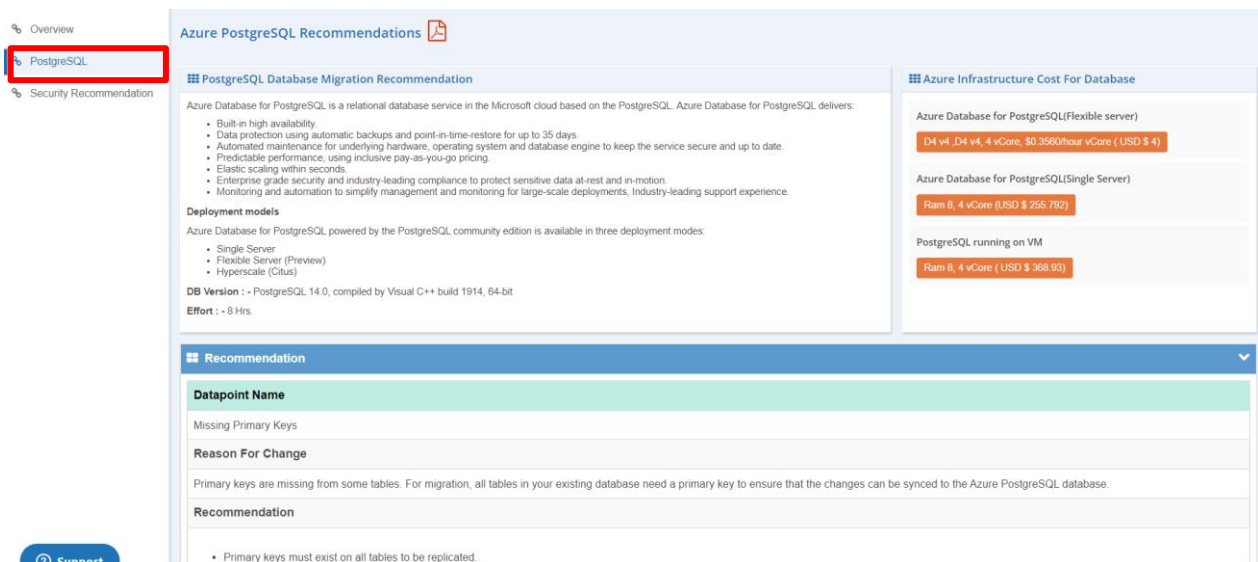
Ram 8, 4 vCore (USD \$ 368.93)

**DATABASE OBJECT LISTING**

S.no.	Object	Count
1	Tables	2
4	Function	3

**Figure 28G: PostgreSQL Database Report**

15. Click on the 'Postgre SQL' section to get access to PostgreSQL recommendations, as shown in [Figure 28H: PostgreSQL Recommendations](#).



**Azure PostgreSQL Recommendations**

**PostgreSQL Database Migration Recommendation**

Azure Database for PostgreSQL is a relational database service in the Microsoft cloud based on the PostgreSQL. Azure Database for PostgreSQL delivers:

- Built-in high availability.
- Data protection using automatic backups and point-in-time-restore for up to 35 days.
- Automated maintenance for underlying hardware, operating system and database engine to keep the service secure and up to date.
- Predictable performance, using inclusive pay-as-you-go pricing.
- Elastic scaling within seconds.
- Enterprise grade security and industry-leading compliance to protect sensitive data at-rest and in-motion.
- Monitoring and automation to simplify management and monitoring for large-scale deployments, Industry-leading support experience.

**Deployment models**

Azure Database for PostgreSQL powered by the PostgreSQL community edition is available in three deployment modes:

- Single Server
- Flexible Server (Preview)
- Hyperscale (Citrus)

**DB Version :** - PostgreSQL 14.0, compiled by Visual C++ build 1914, 64-bit

**Effort :** - 8 Hrs.

**Azure Infrastructure Cost For Database**

Azure Database for PostgreSQL(Flexible server)

D4 v4, D4 v4, 4 vCore, \$0.3560/hour vCore (USD \$ 4)

Azure Database for PostgreSQL(Single Server)

Ram 8, 4 vCore (USD \$ 255.792)

PostgreSQL running on VM

Ram 8, 4 vCore (USD \$ 368.93)

**Recommendation**

Datapoint Name
Missing Primary Keys

**Reason For Change**

Primary keys are missing from some tables. For migration, all tables in your existing database need a primary key to ensure that the changes can be synced to the Azure PostgreSQL database.

**Recommendation**

- Primary keys must exist on all tables to be replicated.

**Figure 28H: PostgreSQL Recommendations**

16. In the CloudPilot portal, click on the "Go to Portfolio" button. You will get access to a page as shown in [Figure 28I: PostgreSQL Portfolio Dashboard](#). Click

on the button displaying the number of PostgreSQL Databases, as shown in the figure below.

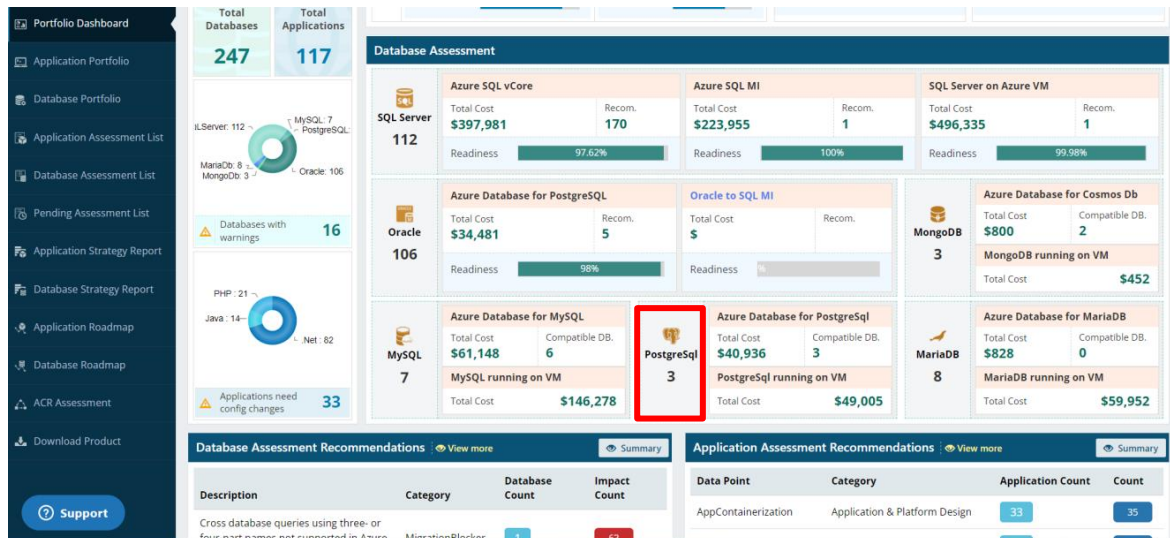


Figure 28I: Database Portfolio Dashboard

- After clicking on the PostgreSQL Database number, you will get access to PostgreSQL Assessment Portfolio as shown in [Figure 28J: PostgreSQL Assessment Portfolio](#).

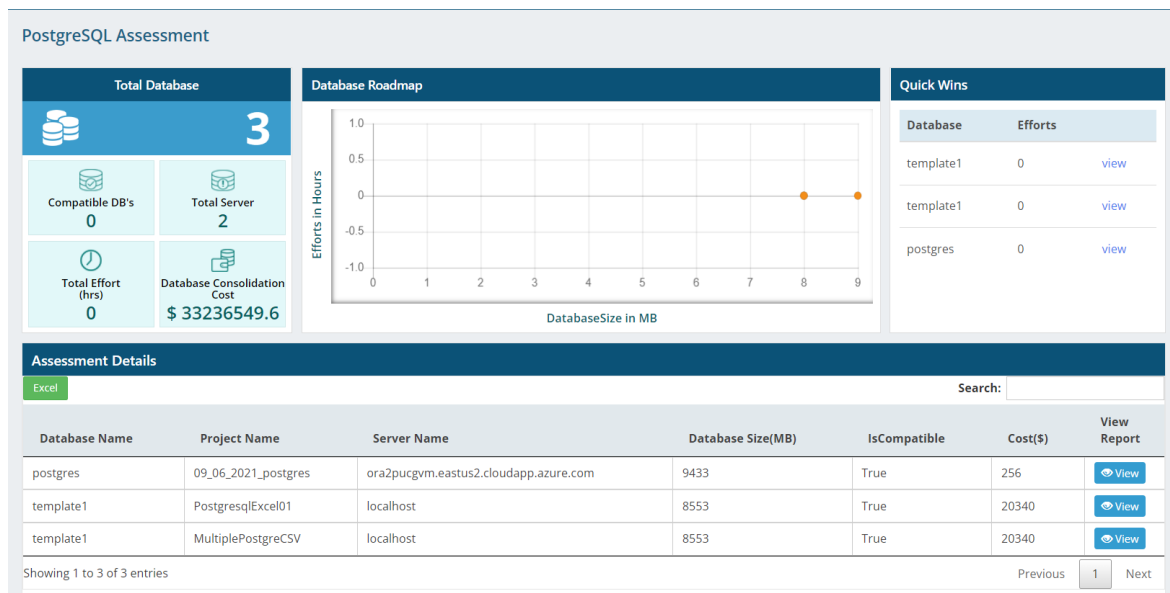


Figure 28J: Database Portfolio Dashboard

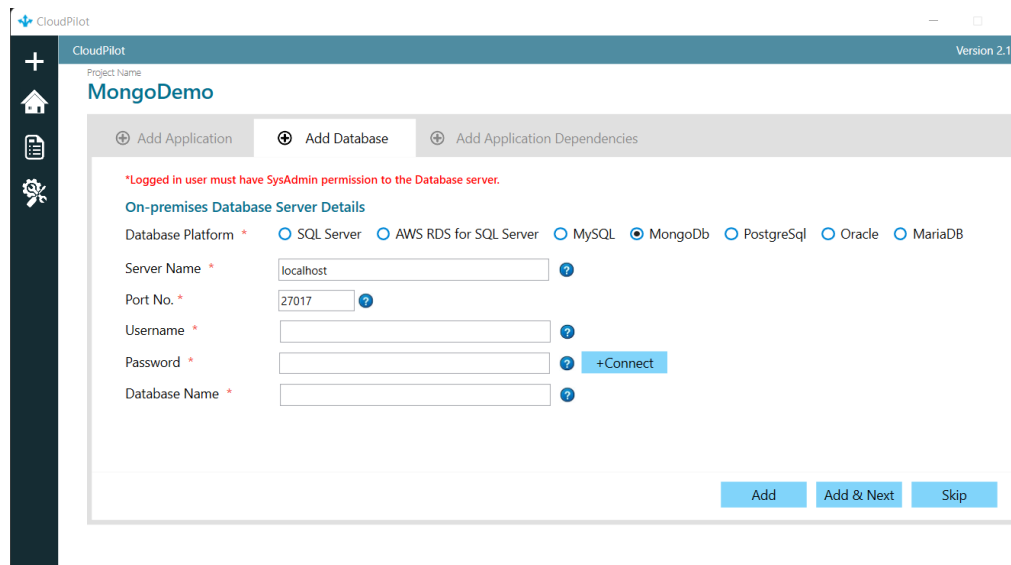
## MongoDB Database Platform

- Enter the Server Name. Enter your credentials and click **+Connect** to connect to the

cloud remote server as shown in [Figure 28K: MongoDB - Database Platform](#).

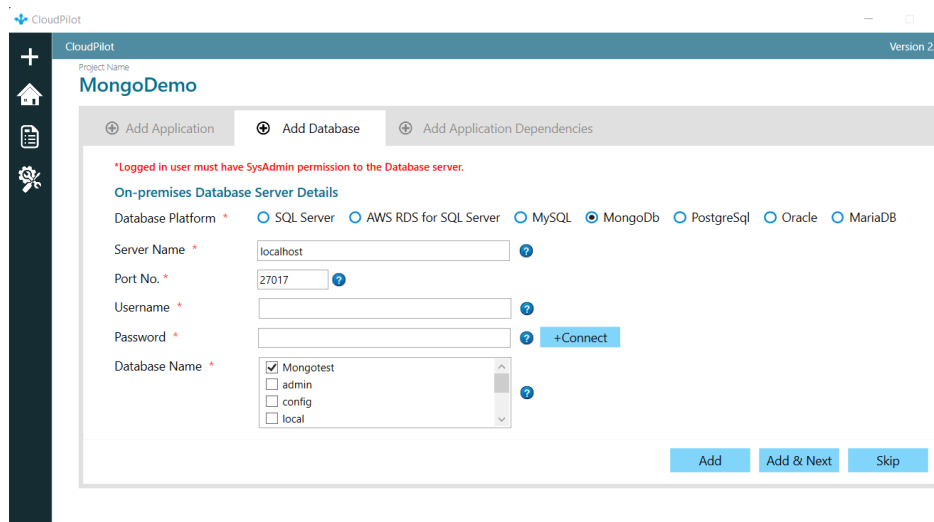
2. Select the specific Database Name check box as shown in [Figure 28K: MongoDB - Database Platform](#).

**NOTE:** If you want to add more than 1 database, select the **Database Name** check box and click **Add**.



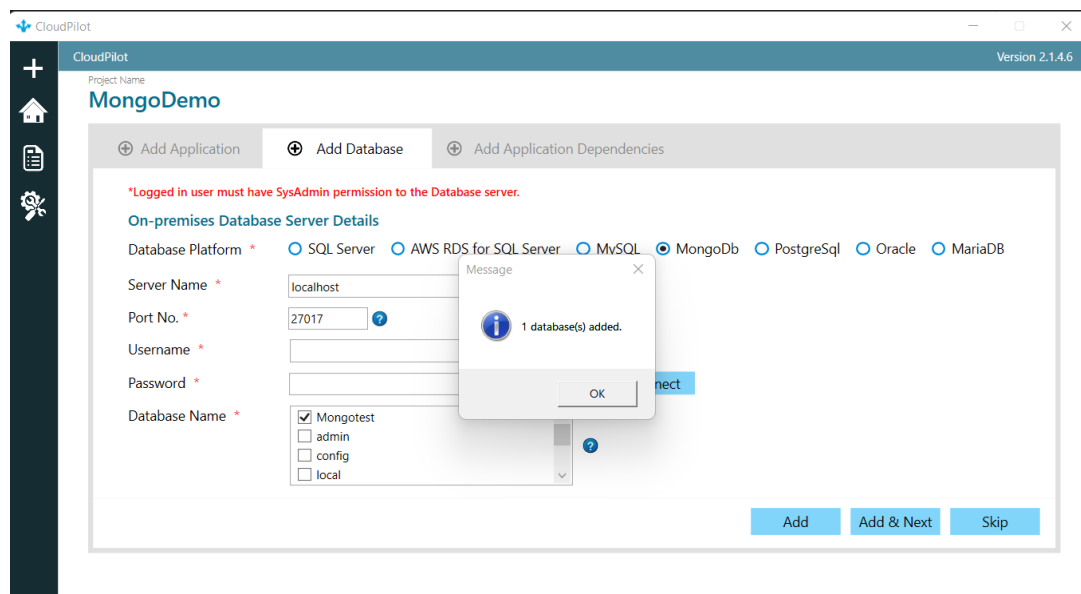
**Figure 28K: MongoDB Database Platform**

3. If you want to add more than one database, select database names as shown in [Figure 28L below](#).



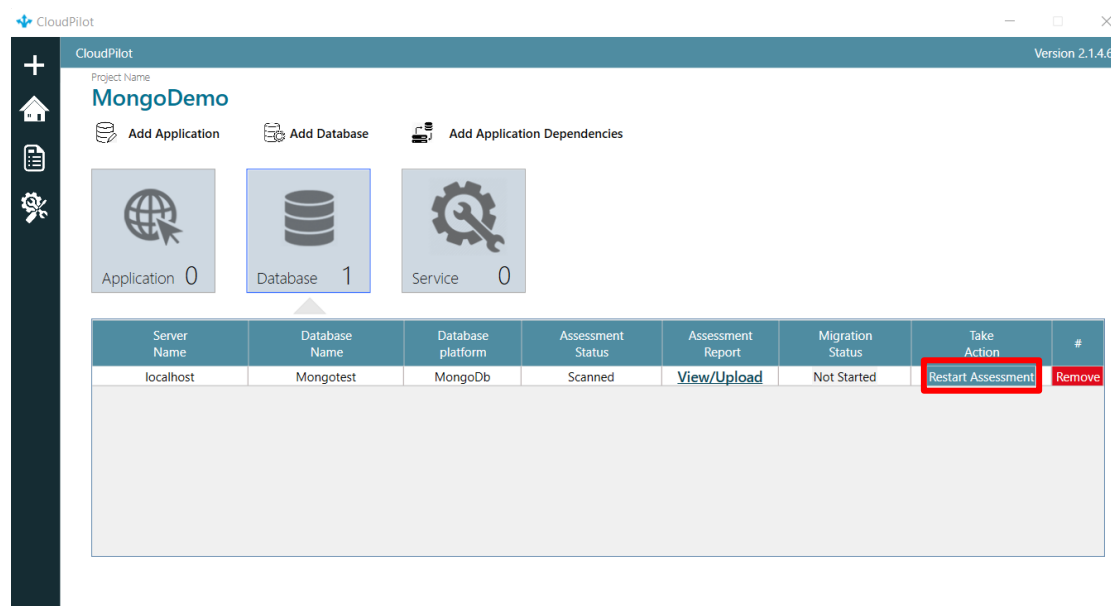
**Figure 28L: MongoDB Select Database Name**

4. Once the Database details are complete, click **Add & Next**.
5. You will get a dialog box with a message "1 Database(s) added successfully", click **OK** as shown in [Figure 28M: MongoDB Database Added](#).



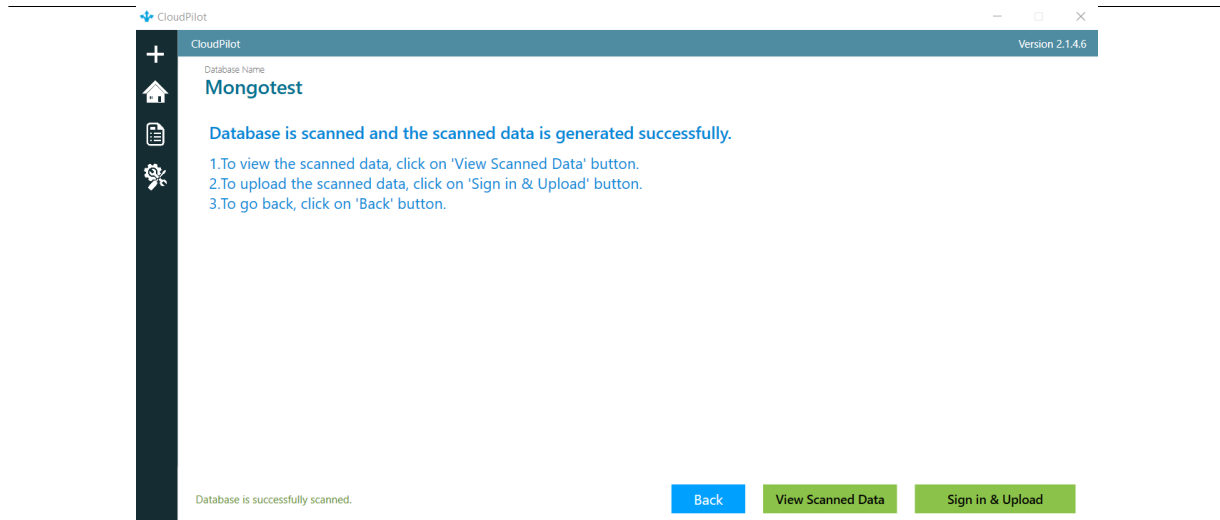
**Figure 28M: MongoDB Database added successfully**

6. After the database is added successfully, you can start the assessment. Click on the button shown in [Figure 28N: Restart Assessment](#).



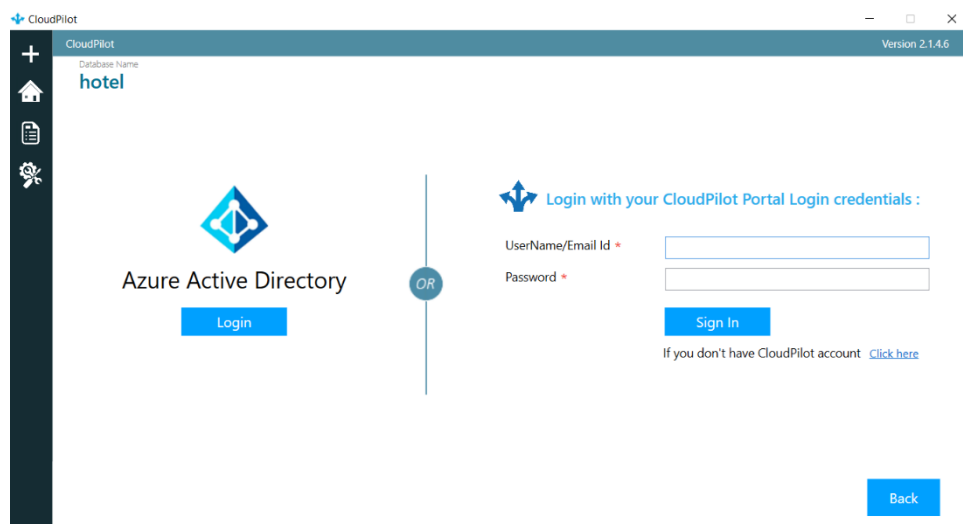
**Figure 28N: Restart Assessment**

7. After the database is assessed, you can sign in and upload as shown in [Figure 28O: Sign in & Upload](#).



**Figure 28O: Sign in and upload**

- After clicking on sign and upload, you will land on the sign-in page for the CloudPilot portal. Enter your credentials and click on sign in as shown in [Figure 28 P](#) below.



**Figure 28P: CloudPilot Portal Sign-in**

- After signing in to the CloudPilot portal, please access the dashboard, and click on the 'analysis' button as shown in [Figure 28Q](#).

mongo	Total 1	0	1	0	Application 0	Database 1	Application 0	Database 1	>
MongoDB Migration Assessment									
Database Name	Database Type	Scan Date	Assessment Status	Migration Status	Action				
Mongotest	MongoDb	06-06-2022	Pending	Pending	Analysis Delete				

**Figure 28Q: MongoDB Assessment Dashboard**



Figure 28R: PostgreSQL Database Report.

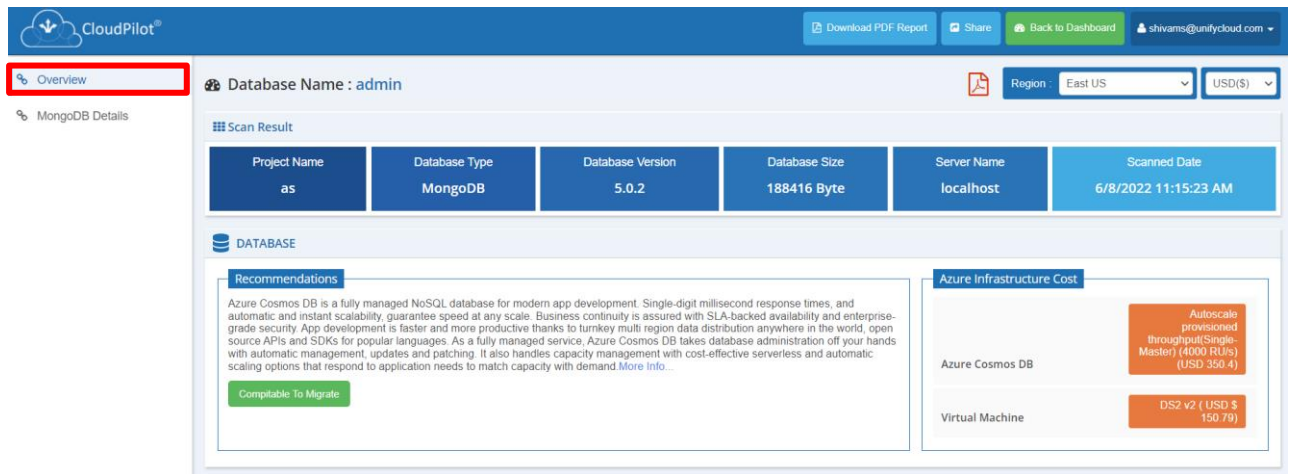


Figure 28R: MongoDB Database Report

11. Click on the 'MongoDB' section to get access to MongoDB recommendations, as shown in [Figure 28S: MongoDB Recommendations.](#)

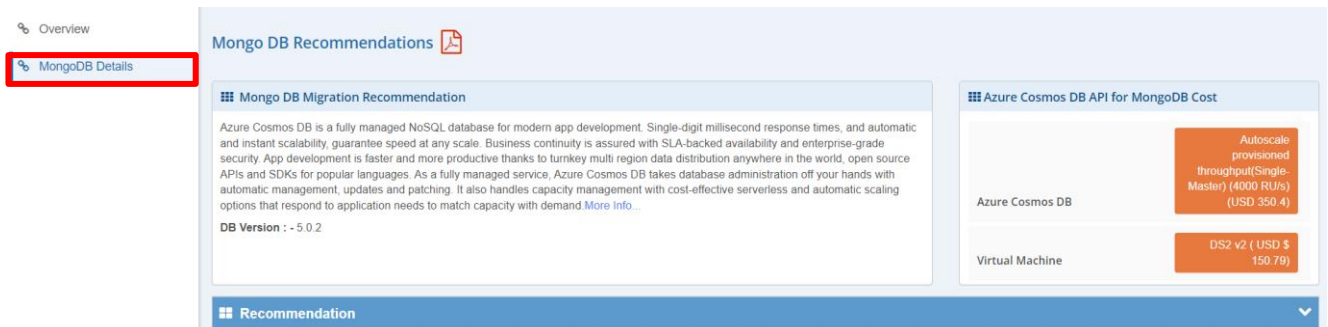


Figure 28S: MongoDB Recommendations

12. In the CloudPilot portal, click on the "Go to Portfolio" button. You will get access to a page as shown in [Figure 28T: MongoDB Portfolio Dashboard.](#) Click on the button displaying the number of MongoDB Databases, as shown in the figure below.

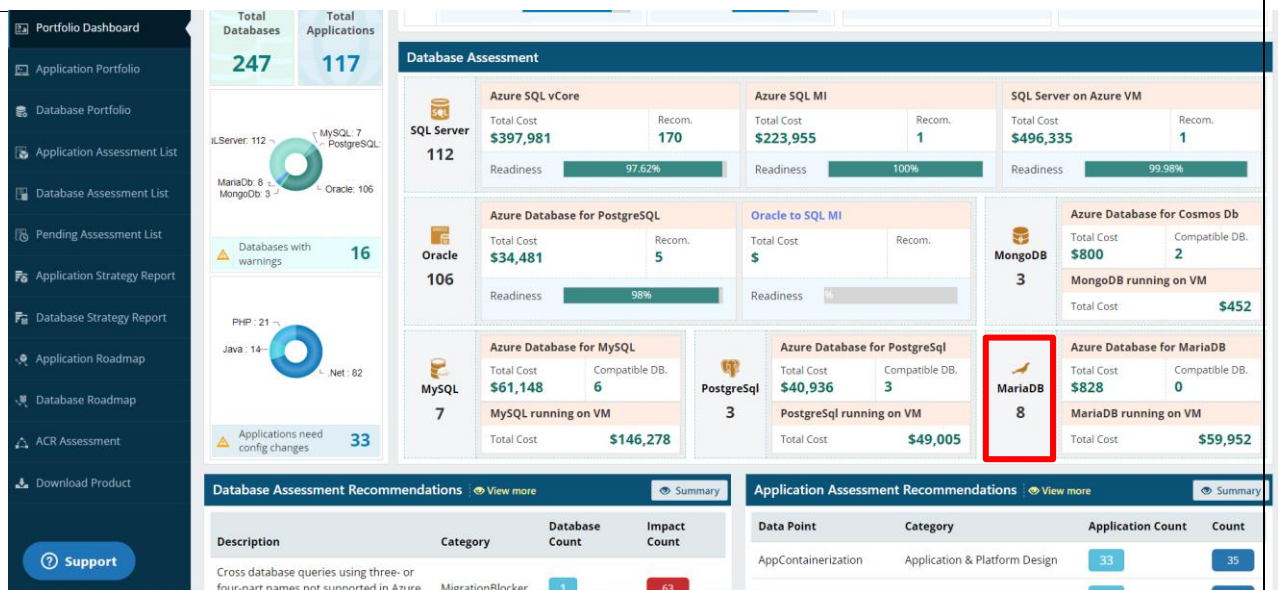


Figure 28T: Database Portfolio Dashboard

13. After clicking on the MongoDB Database number, you will get access to MongoDB Assessment Portfolio as shown in [Figure 28U: MongoDB Assessment Portfolio](#).

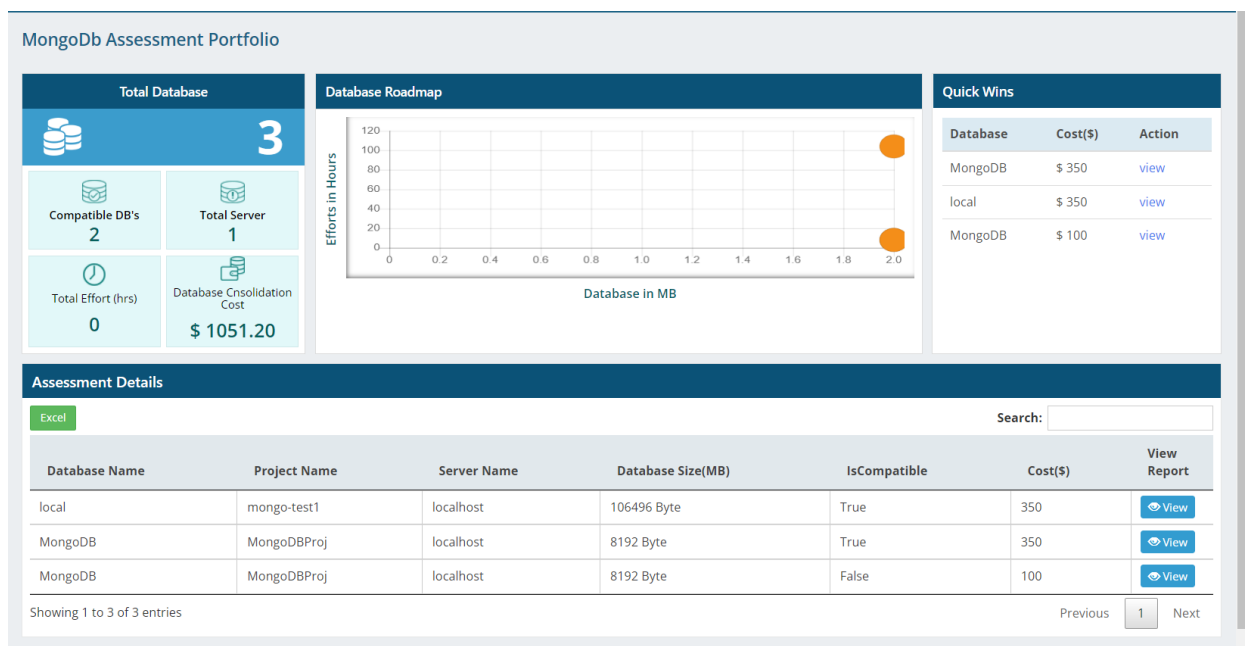
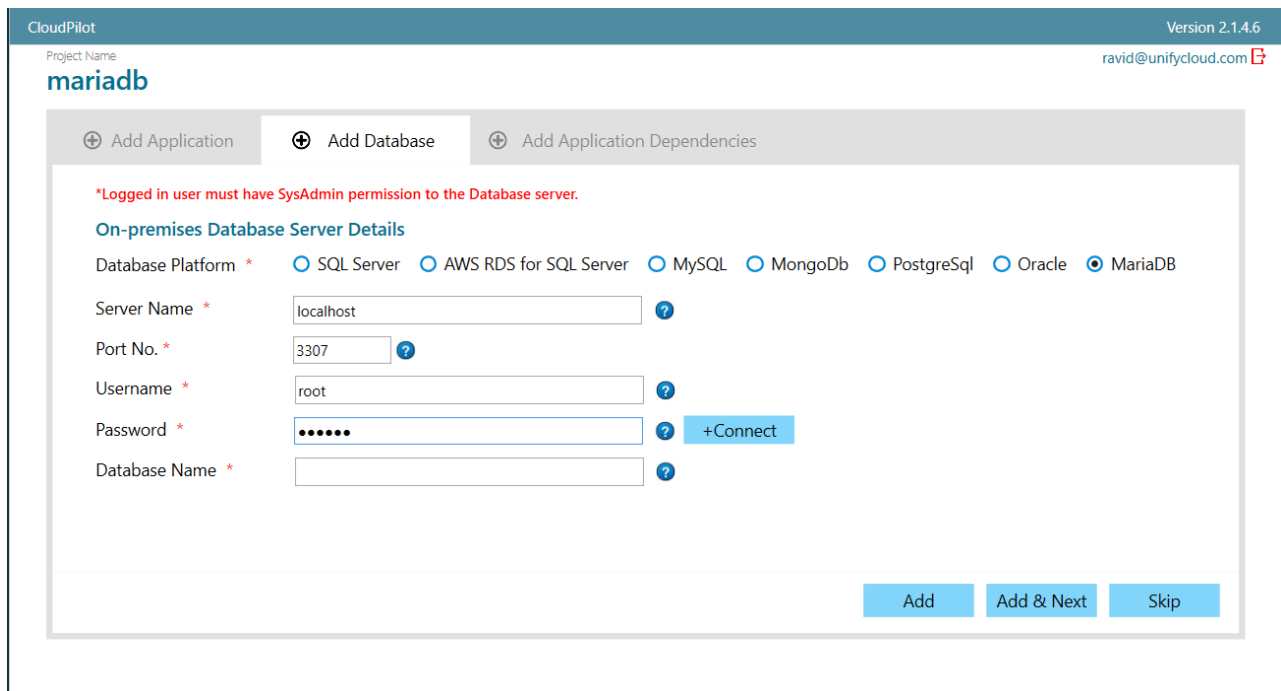


Figure 28U: Database Portfolio Dashboard

## MariaDB Database Platform

1. Enter the Server Name. Enter your credentials and click **+Connect** to connect to the cloud remote server as shown in [Figure 28 V: MariaDB - Database Platform.](#)
2. Select the specific Database Name check box as shown in [Figure 28 V: MariaDB - Database Platform.](#)

**NOTE:** If you want to add more than 1 database, select the **Database Name** check box and click **Add**.



CloudPilot Version 2.1.4.6

Project Name mariadb ravid@unifycloud.com

+ Add Application + Add Database + Add Application Dependencies

\*Logged in user must have SysAdmin permission to the Database server.

**On-premises Database Server Details**

Database Platform \* ☐ SQL Server ☐ AWS RDS for SQL Server ☐ MySQL ☐ MongoDB ☐ PostgreSQL ☐ Oracle ☒ MariaDB

Server Name \* localhost ?

Port No. \* 3307 ?

Username \* root ?

Password \* ..... ? +Connect

Database Name \* ?

Add Add & Next Skip

**Figure 28 V: MariaDB Database Platform**

3. If you want to add more than one database, select database names as shown in [Figure 28 W below.](#)

CloudPilot

Version 2.1.4.6

Project Name

mariadb

ravid@unifycloud.com

⊕ Add Application

⊕ Add Database

⊕ Add Application Dependencies

\*Logged in user must have SysAdmin permission to the Database server.

On-premises Database Server Details

Database Platform \*

☐ SQL Server
☐ AWS RDS for SQL Server
☐ MySQL
☐ MongoDB
☐ PostgreSQL
☐ Oracle
☒ MariaDB

Server Name \*

localhost

?

Port No. \*

3307

?

Username \*

root

?

Password \*

.....

?

+Connect

Database Name \*

☐ hotel
☐ tutorials

?

Add

Add & Next

Skip

**Figure 28 W: MariaDB Select Database Name**

- Alternatively, you can also import credentials by uploading an excel sheet, as shown in [Figure 28 X.](#)

CloudPilot

Version 2.1.4.6

Project Name

mariadbm

ravid@unifycloud.com

\*Logged in user must have SysAdmin permission to the Database Server.

On-premises Database Server Details

Database Platform \*

☐ SQL Server
☐ AWS RDS for SQL Server
☐ MySQL
☐ Oracle
☐ PostgreSQL
☒ MariaDB
☐ MongoDB

Server Name \*

localhost

?

Port No. \*

3307

?

Username \*

root

?

Password \*

.....

?

+Connect

Database List \*

☐ hotel
☐ tutorials

?

All

Add

Next

Import database from excel

Add the details of the database server in an excel and import them to get the list of database and then perform their assessment.

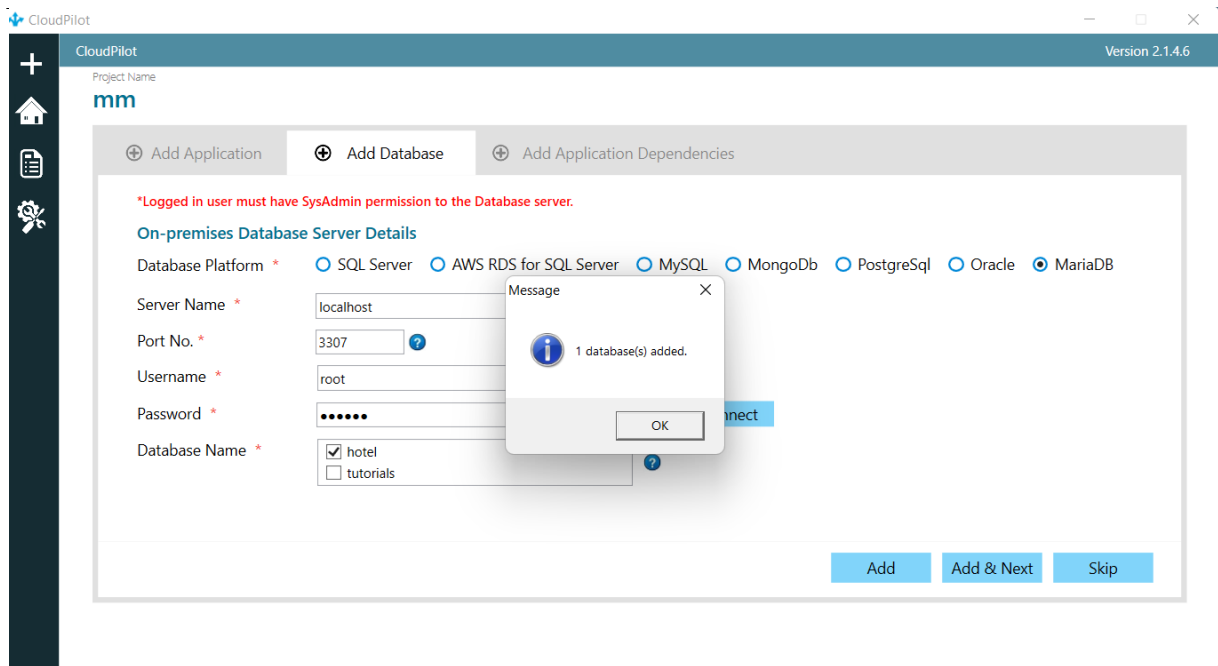
Excel Import

**Figure 28 X: MariaDB Import Excel file**

- Once the Database details are complete, click **Add & Next**.
- You will get a dialog box with a message "1 Database(s) added successfully", click **OK** as shown in [Figure 28 Y: MariaDB Database Added.](#)

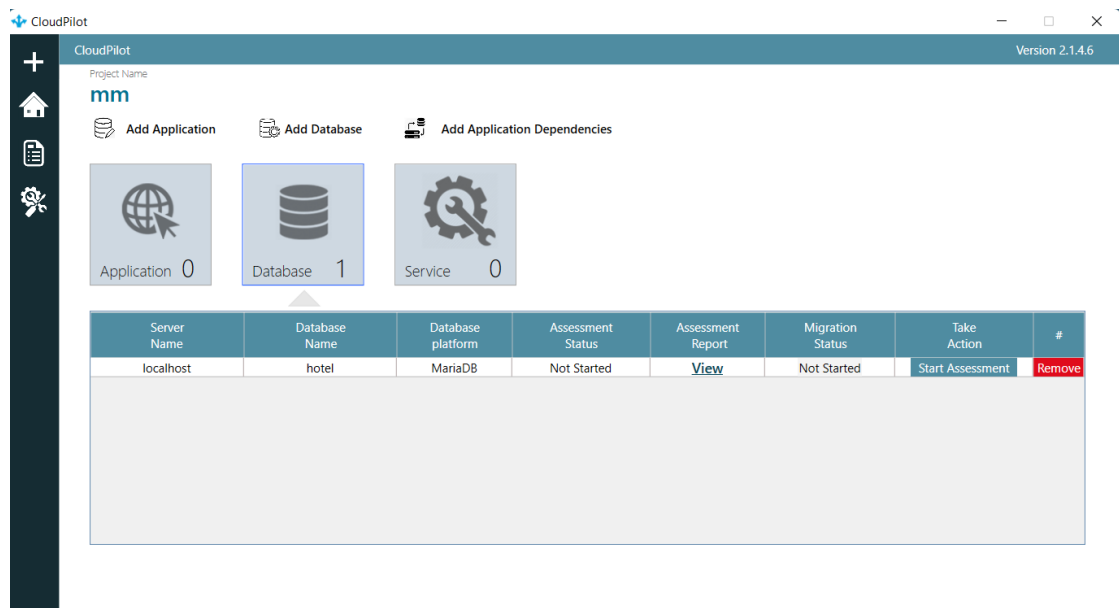
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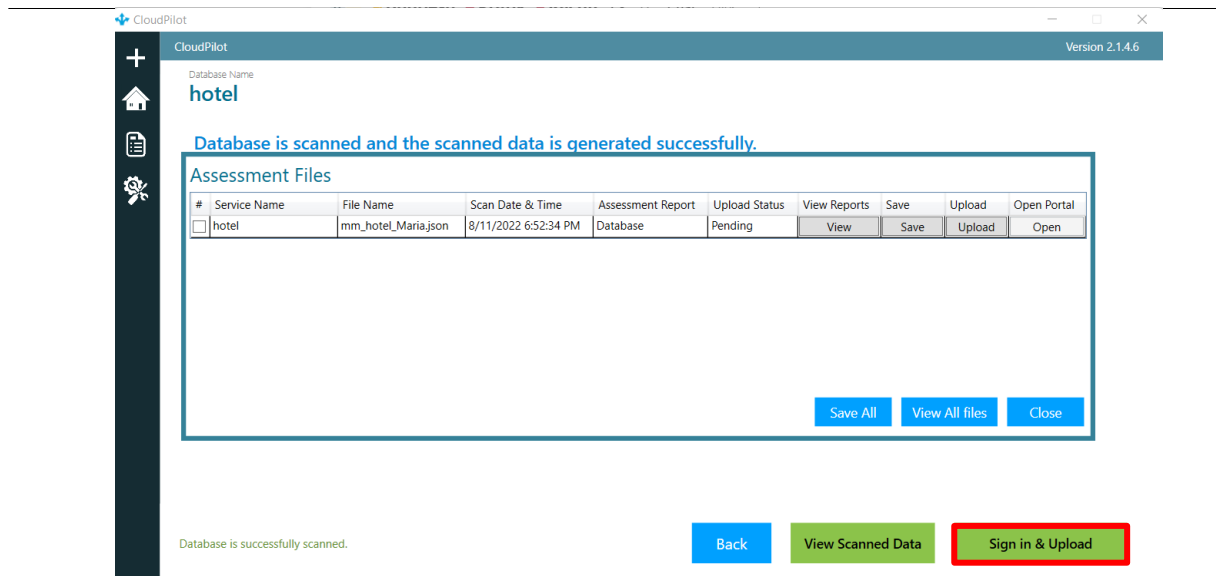
**Figure 28 Y: MariaDB Database added successfully**

7. After the database is added successfully, you can start the assessment. Click on the button shown in [Figure 28 Z: Start Assessment](#).



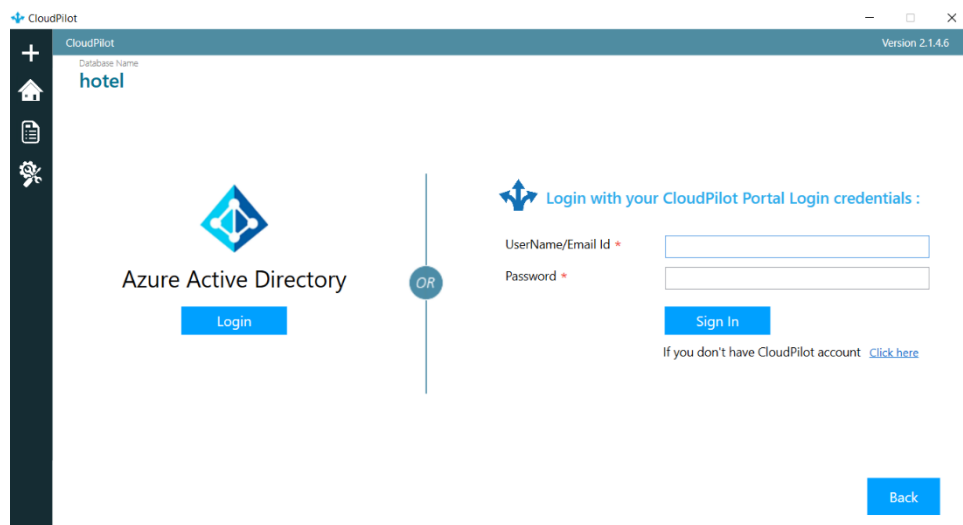
**Figure 28 Z: Start Assessment**

8. After the database is assessed, you can sign in and upload as shown in [Figure 28AA: Sign in & Upload](#).



**Figure 28 AA: Sign in and upload**

- After clicking on sign and upload, you will land on the sign-in page for the CloudPilot portal. Enter your credentials and click on sign in as shown in [Figure 28 AB](#) below.



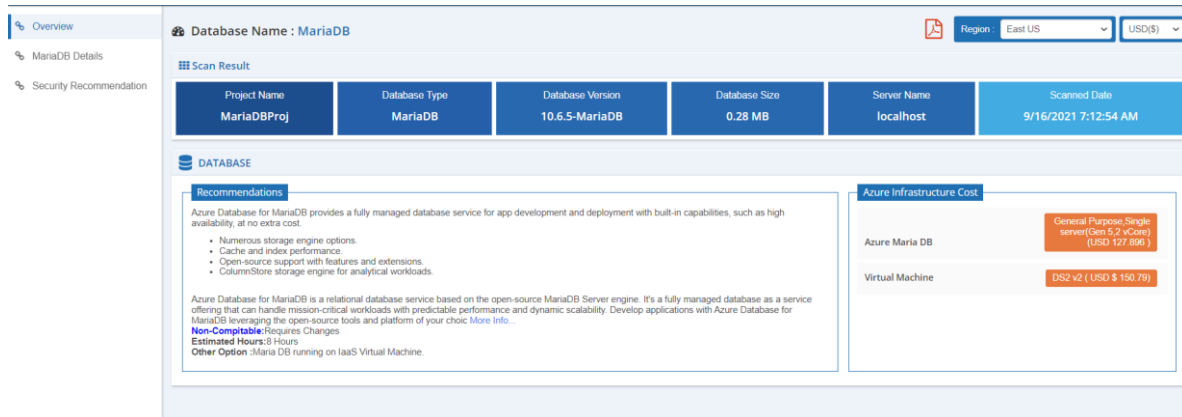
**Figure 28 AB: CloudPilot Portal Sign-in**

- After signing in to the CloudPilot portal, please access the dashboard, and click on the 'analysis' button as shown in [Figure 28 AC](#).

mariaDB-Demo	Total	0	1	0	Application 0 Database 1	Application 0 Database 1
MariaDb Migration Assessment						
Database Name	Database Type	Scan Date	Assessment Status	Migration Status	Action	
hotel	MariaDb	08-11-2022	Pending	Pending	<a href="#">Analysis</a>	<a href="#">Delete</a>

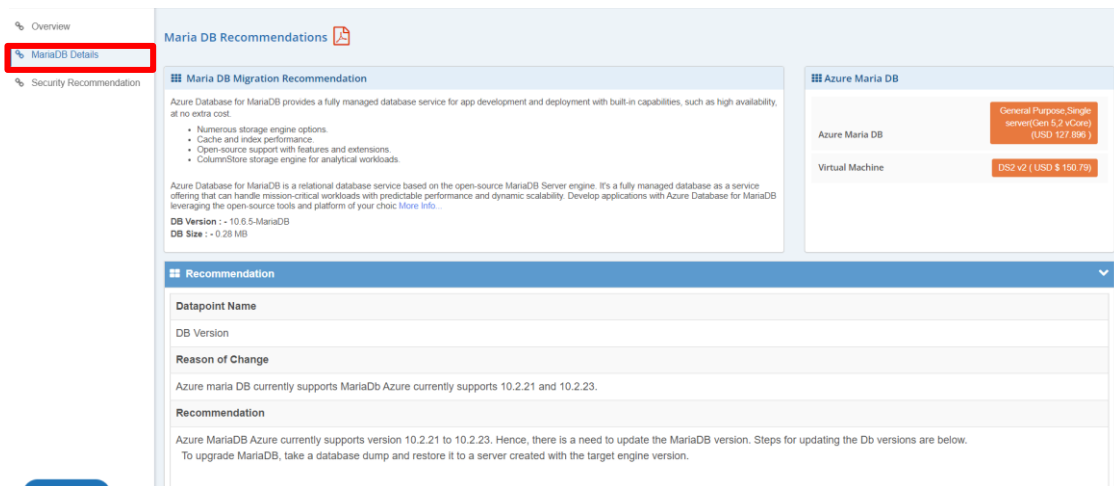
**Figure 28 AC: MariaDB Assessment Dashboard**

11. After database analysis is conducted by the tool, click on 'Overview' section as shown in [Figure 28 AD: PostgreSQL Database Report](#).



**Figure 28 AD: MariaDB Database Report**

12. Click on the 'MariaDB' section to get access to MariaDB recommendations, as shown in [Figure 28 AE: MariaDB Recommendations](#).



**Figure 28 AE: MariaDB Recommendations**

13. In the CloudPilot portal, click on the "Go to Portfolio" button. You will get access to a page as shown in [Figure 28 AF: MariaDB Portfolio Dashboard](#). Click on the button displaying the number of MariaDB Databases, as shown in the figure below.

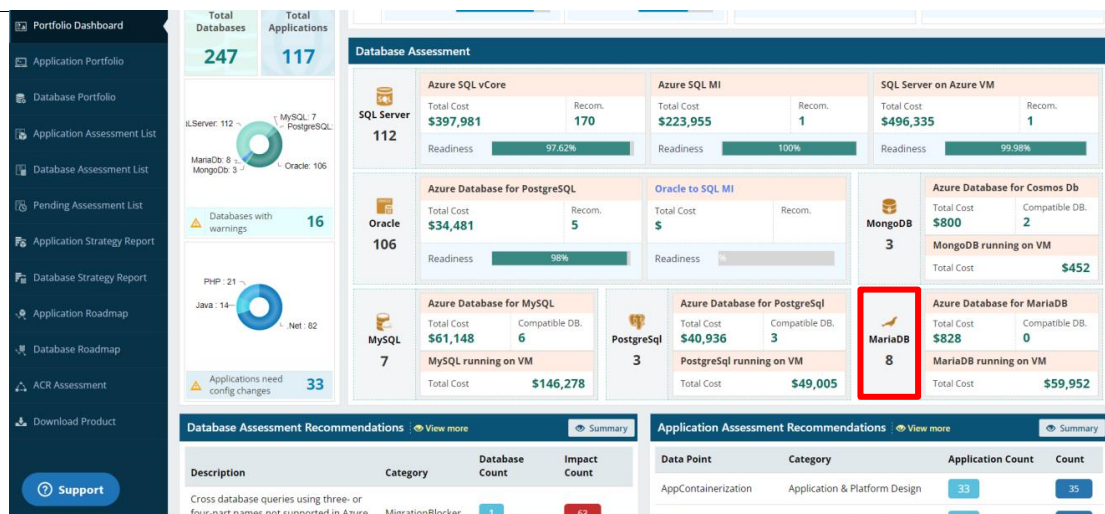


Figure 28 AF: Database Portfolio Dashboard

14. After clicking on the MariaDB Database number, you will get access to MariaDB Assessment Portfolio as shown in [Figure 28 AG: MariaDB Assessment Portfolio](#).

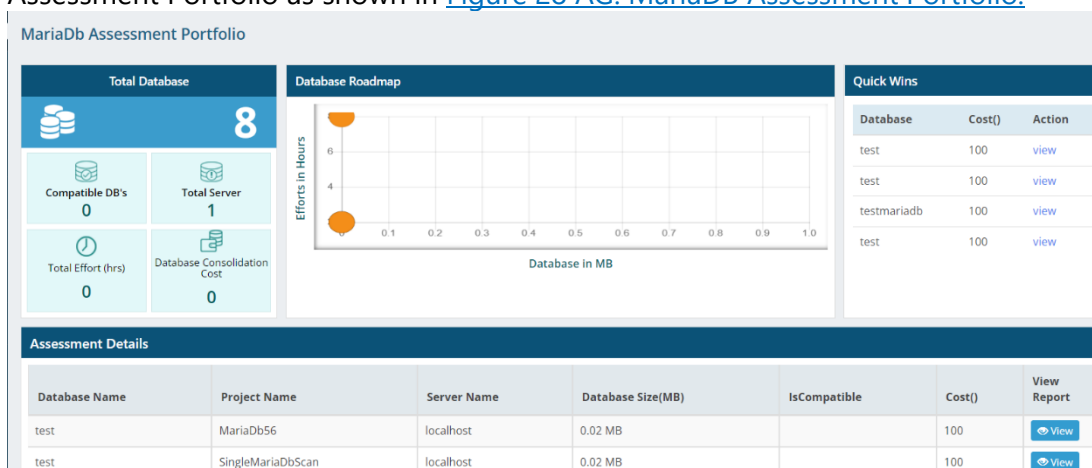


Figure 28 AG: Database Portfolio Dashboard

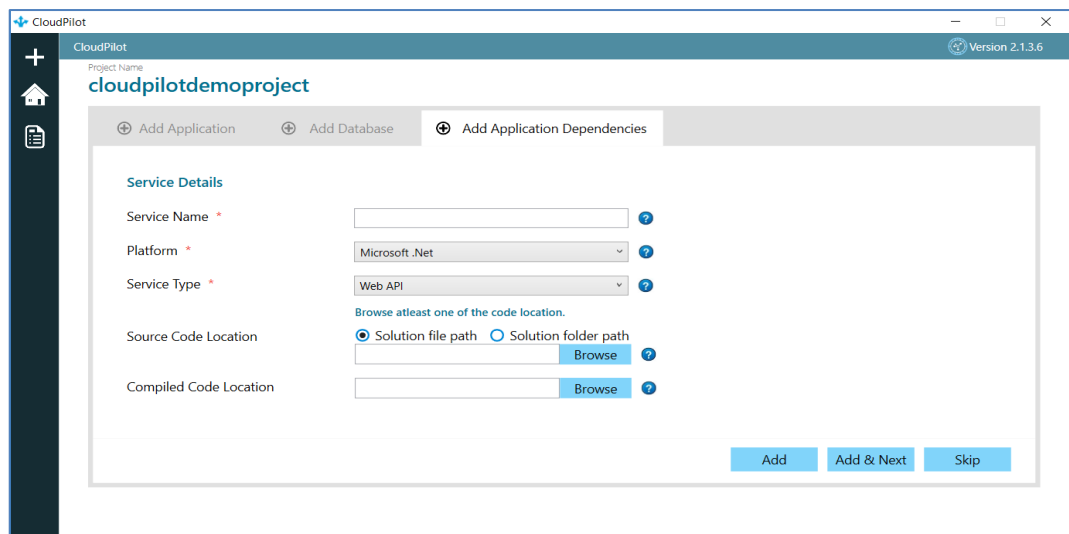


### 3.1.3 Add Application Dependencies with CloudPilot Tool

1. Enter the Service name.
2. Select Service Type as Web API.

**NOTE:** You need to follow the same procedure for Web services or WCF service types.

3. Select Platform as Microsoft.Net as shown in [Figure 29: Add Application Dependencies](#).

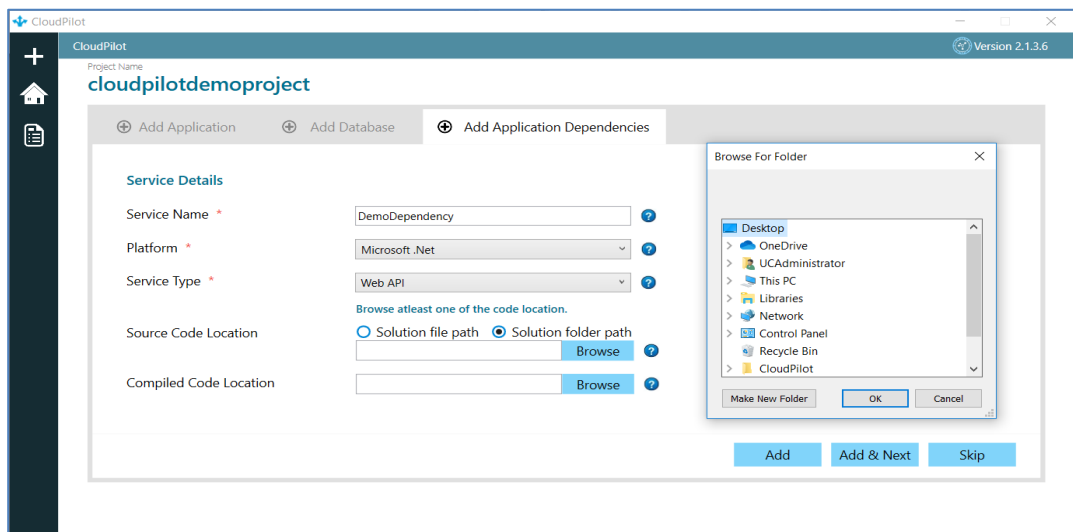


**Figure 29: Add Application Dependencies**

4. Under the Source Code Location section, click **Browse** and provide the path of your source application.

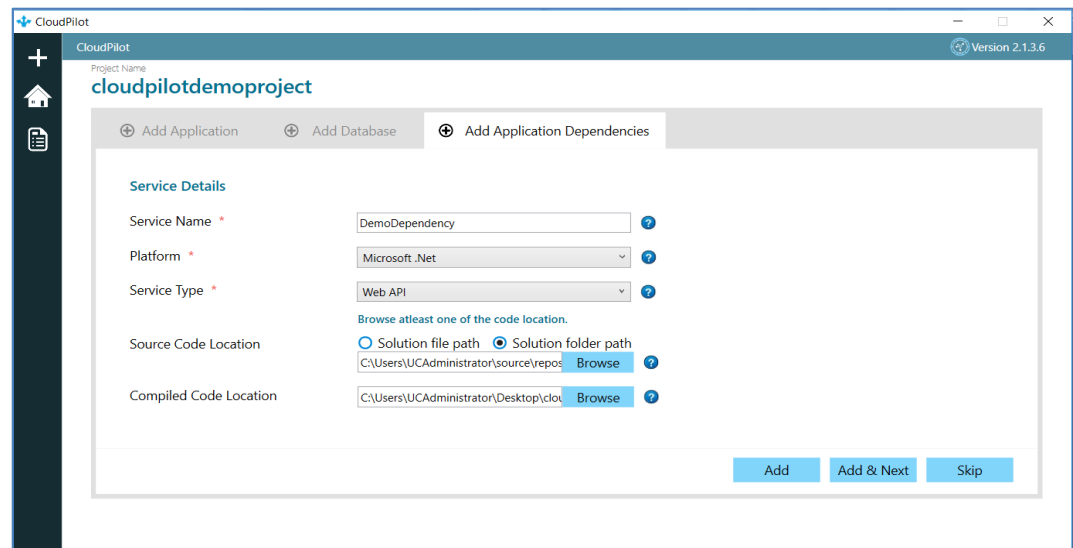
If you have the solution file, select the **Solution file path** radio button otherwise, you can directly select the project folder path by selecting the **Solution folder path** radio button as shown in [Figure 29A: Application Dependencies - Source Code Location](#).

**NOTE:** Browse at least 1 of the **Code Location** at one time.



**Figure 29A: Application Dependencies - Source Code Location**

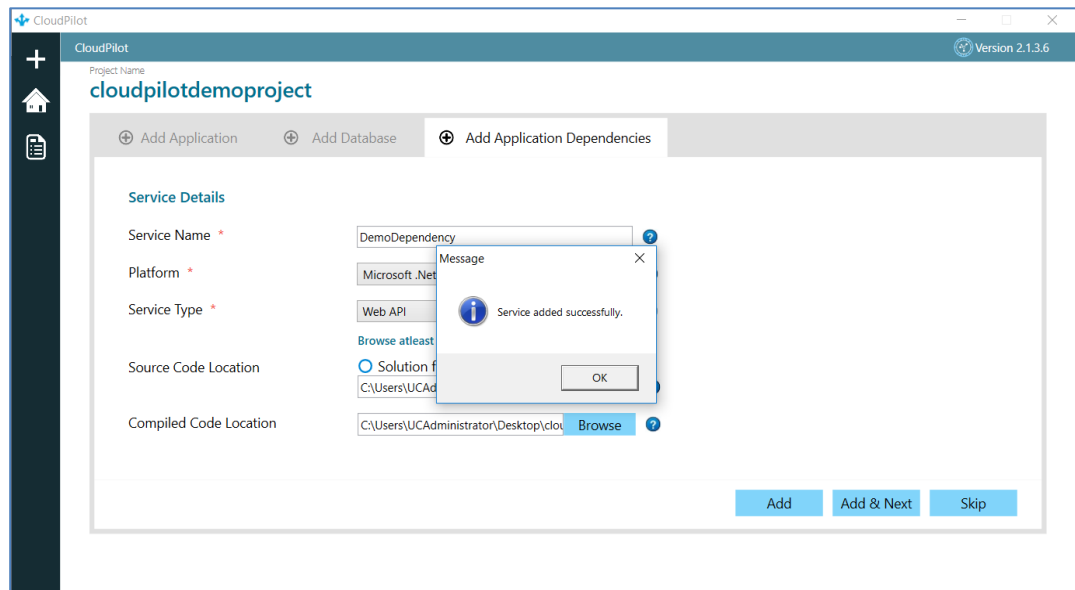
5. Provide details of Compiled Code Location, click **Browse** and provide the path of your compiled code location as shown in [Figure 30: Browse – Compiled Code location](#).



**Figure 30: Browse – Compiled Code location**

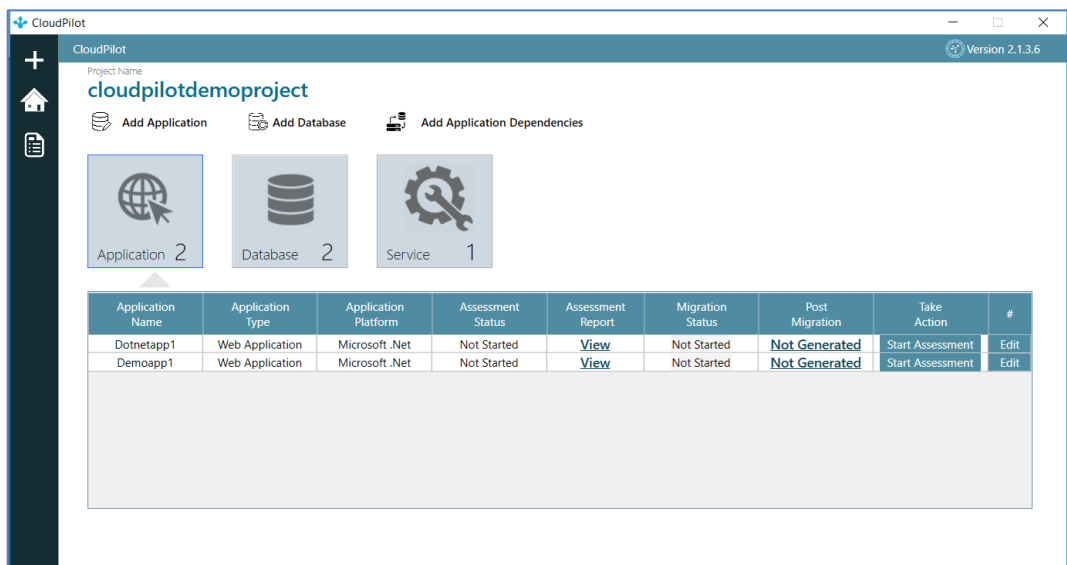
6. Once the application details are complete click **Add & Next**.
7. You will get a dialog box with a message "Service added successfully," click **OK** as shown in [Figure 31: Application Added Successfully](#).

**NOTE:** If you want to add more than 1 application dependencies at one time, click **Add**.



**Figure 31: Application Dependencies Added Successfully**

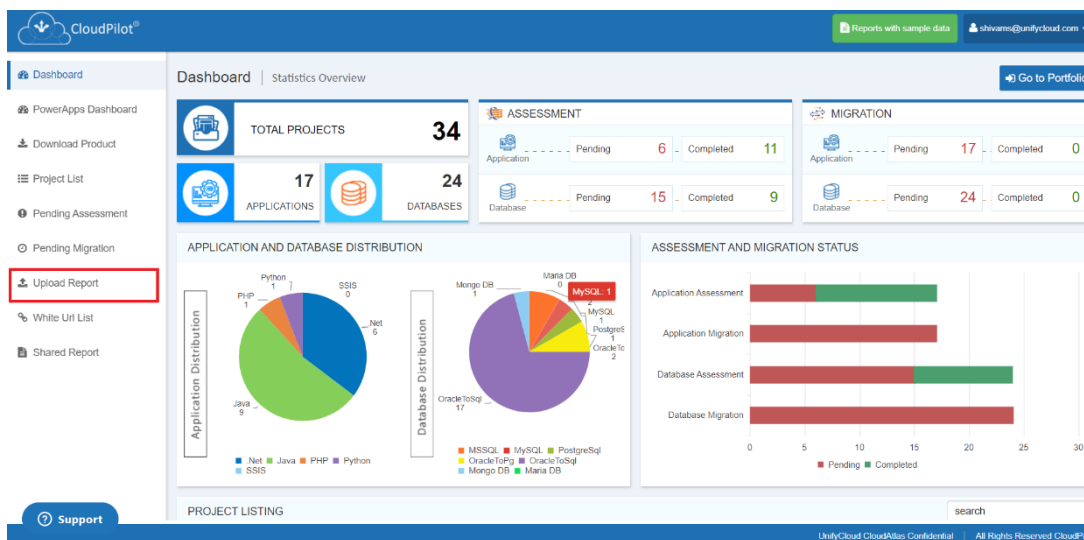
8. Once the Application, Database and Service details are added, respective thumbnails are seen with the quantity as shown in [Figure 32: Thumbnails](#).



**Figure 32: Thumbnails**

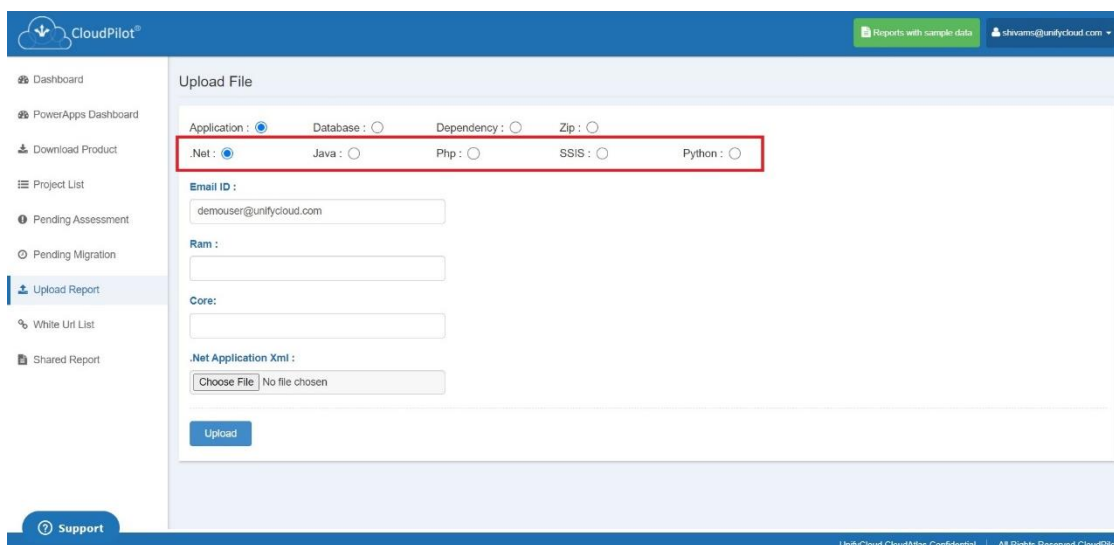
### 3.1.4 Add Applications with CloudPilot Portal

1. Go to the CloudPilot portal: <https://cloudpilot.cloudatlasinc.com/> and login with your credentials.
2. Once dashboard is launched, click on the 'Upload Report' option, as shown in [Figure 32 A: CloudPilot Portal Dashboard](#).



**Figure 32 A: CloudPilot Portal Dashboard**

3. In the upload report screen, you will see the upload application option. Choose your application language and browse for XML file, as shown [Figure 32 B: Upload Report Page](#).

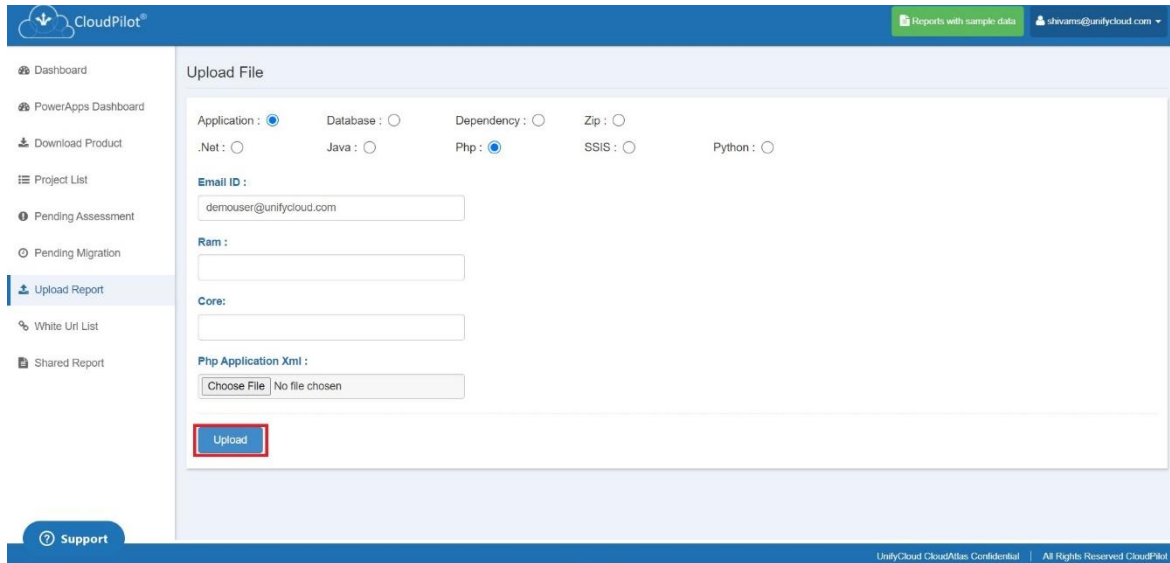


The screenshot shows the 'Upload File' page in the CloudPilot Portal. The page has a sidebar with navigation options: Dashboard, PowerApps Dashboard, Download Product, Project List, Pending Assessment, Pending Migration, Upload Report (highlighted with a red box), White Url List, and Shared Report. The main content area is titled 'Upload File' and contains a form with the following fields: Application (radio button), Database (radio button), Dependency (radio button), Zip (radio button), Email ID (text input), Ram (text input), Core (text input), and .Net Application Xml (text input). The Application field is selected, and the form is highlighted with a red box. The .Net Application Xml field has a 'Choose File' button and a 'No file chosen' message. The Upload button is at the bottom of the form.

**Figure 32 B: Upload Report Page**

4. Once you have selected your .xml file, click on the 'upload' button as shown in [Figure 32](#)

## C: Application Upload Report

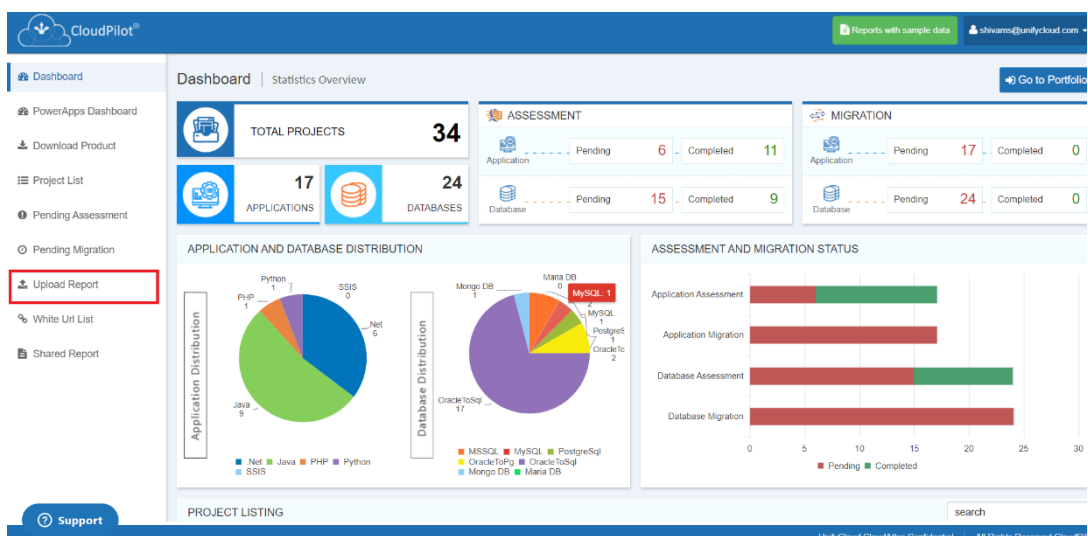


**Figure 32 C: Application Upload Report**

5. Your application report is successfully uploaded and can be accessed through the dashboard.

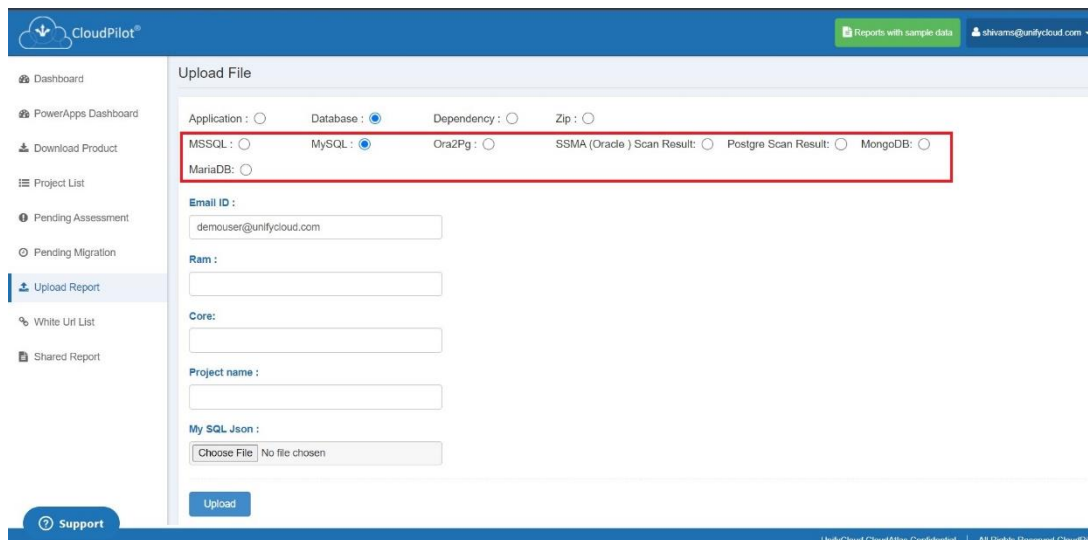
### 3.1.5 Add Database with CloudPilot Portal

1. Go to the CloudPilot portal: <https://cloudpilot.cloudatlasinc.com/> and login with your credentials.
2. Once dashboard is launched, click on the 'Upload Report' option, as shown in [Figure 32 D: CloudPilot Portal Dashboard](#).



**Figure 32 D: CloudPilot Portal Dashboard**

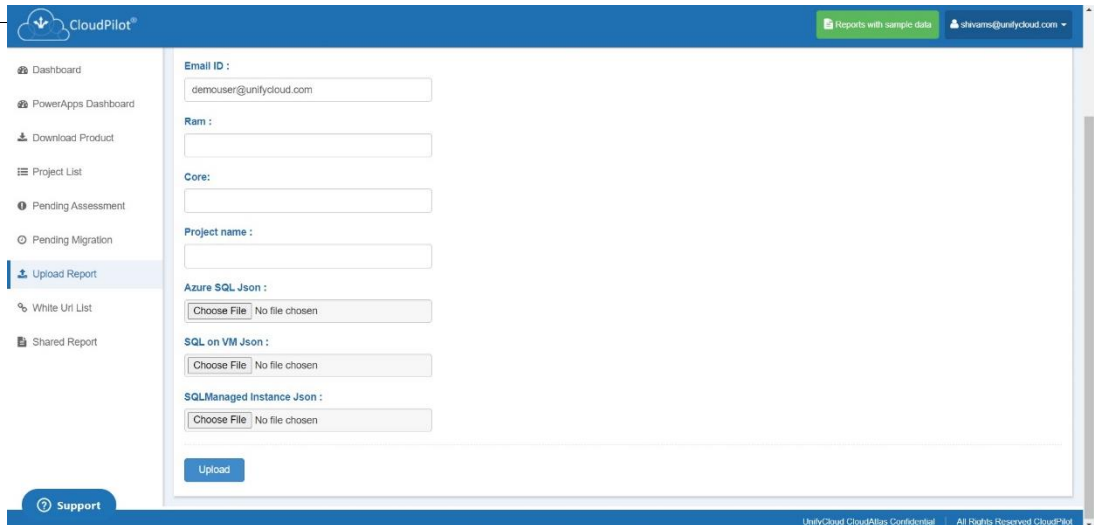
3. In the upload report screen, you will see the upload database option. Choose your database language and browse for .JSON file, as shown in [Figure 32 E: Application Upload Report Page](#).



The screenshot shows the 'Upload File' section of the CloudPilot interface. The 'Database' radio button is selected under the 'Application' section. Below this, the 'MySQL' radio button is selected under the 'Database' section. A red box highlights the 'MySQL' radio button and the 'MariaDB' radio button. The 'Email ID' field is filled with 'demouser@unifycloud.com'. The 'Ram' field is empty. The 'Core' field is empty. The 'Project name' field is empty. The 'My SQL Json' section shows a 'Choose File' button and the text 'No file chosen'. The 'Upload' button is at the bottom right of the form.

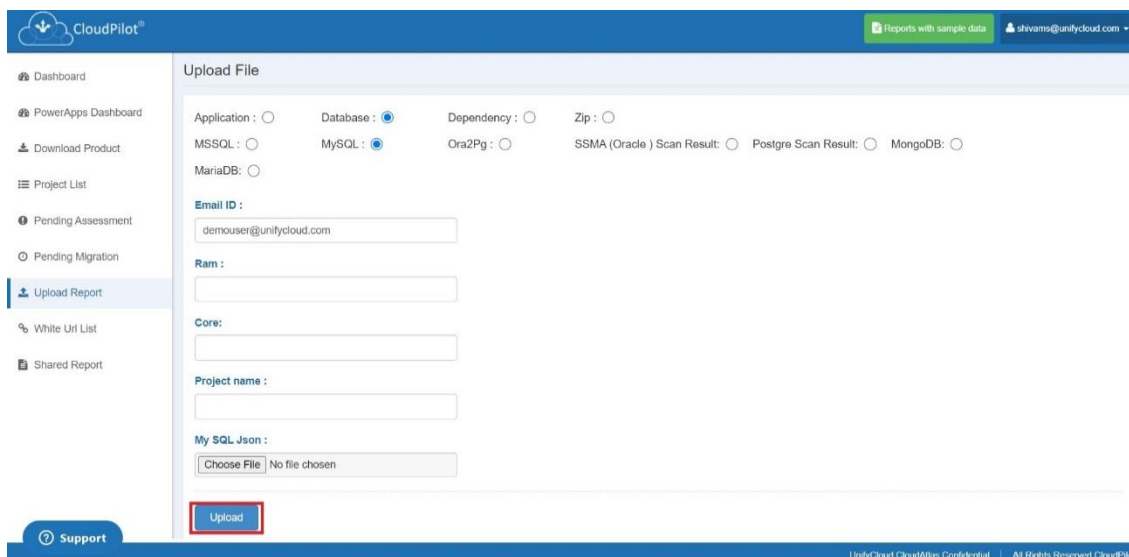
**Figure 32 E: Application Upload Report Page**

4. If you select MS SQL database language, you will be required to upload three types of SQL files - Azure SQL JSON, SQL on VM JSON and SQL Managed Instance JSON as shown in [Figure 32 F: MS SQL Database Upload Page](#).



**Figure 32 F: MS SQL Database Upload Page**

5. Once you have browsed for your file/files, click on the 'Upload' button as shown in [Figure 32 G: Database Upload Report Page](#).



**Figure 32 G: Database Upload Report Page**

6. Your database report is successfully uploaded and can be accessed through the dashboard.

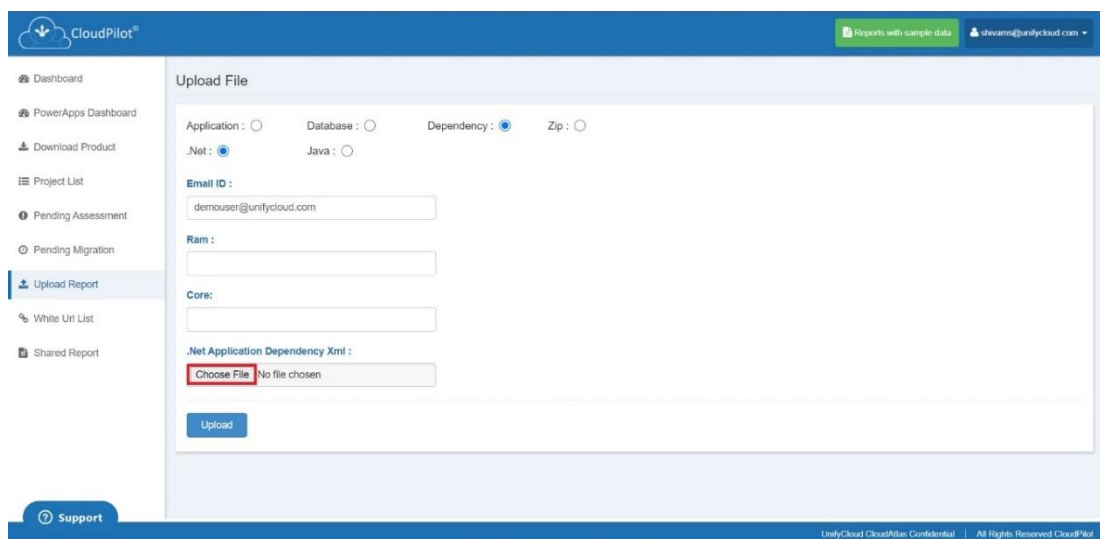
### 3.1.6 Add Dependencies with CloudPilot Portal

1. Go to the CloudPilot portal: <https://cloudpilot.cloudatlasinc.com/> and login with your credentials.
2. Once dashboard is launched, click on the 'Upload Report' option, as shown in [Figure 32 H: CloudPilot Portal Dashboard](#).



**Figure 32 H: CloudPilot Portal Dashboard**

3. In the upload report screen, you will see the upload dependency option. Choose your application dependency language and choose .NET or Java XML file from the pop-up browser, as shown in [Figure 32 I: Choose XML file for upload](#).

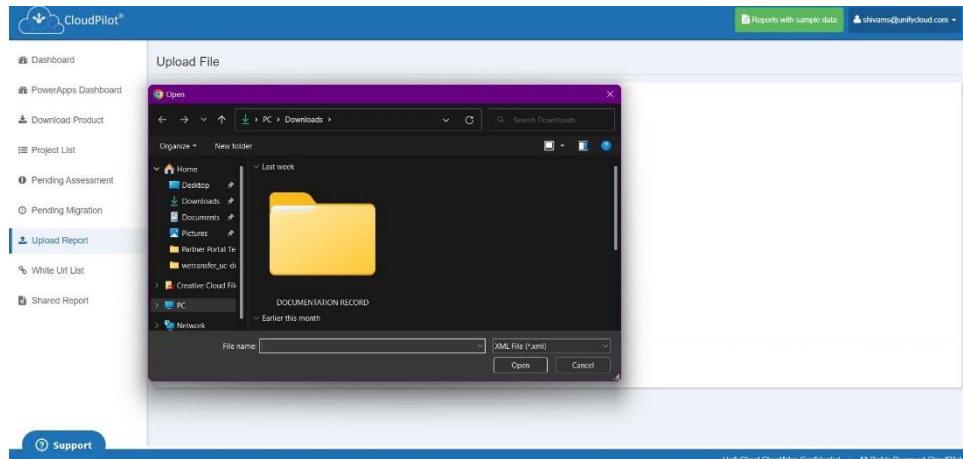


The screenshot shows the 'Upload File' form in the CloudPilot Portal. The form includes fields for Application, Database, Dependency (selected as .Net), and Zip. Below these are fields for Email ID (demouser@unifycloud.com), Ram, and Core. The 'Net Application Dependency Xml' section has a 'Choose File' button (highlighted with a red box) and a 'No file chosen' message. An 'Upload' button is at the bottom.

**Figure 32 I: Choose XML file for upload**

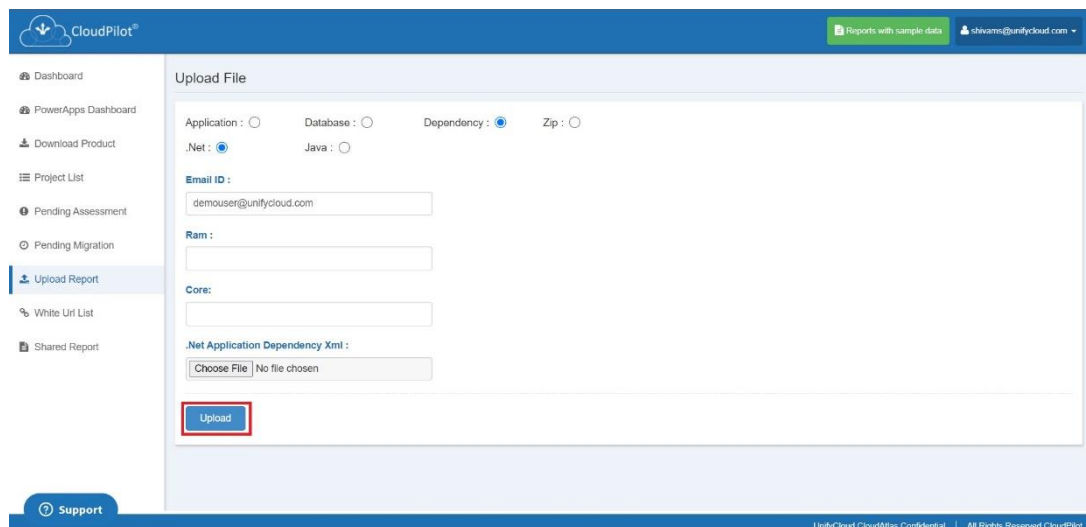


4. If you select MS SQL database language, you will be required to upload three types of SQL files - Azure SQL JSON, SQL on VM JSON and SQL Managed Instance JSON as shown in [Figure 32 J: MS SQL Database Upload Page](#).



**Figure 32 J: MS SQL Database Upload Page**

5. Once you have selected the file, click on the 'Upload' button as shown in [Figure 32 K: Database Upload Report Page](#).

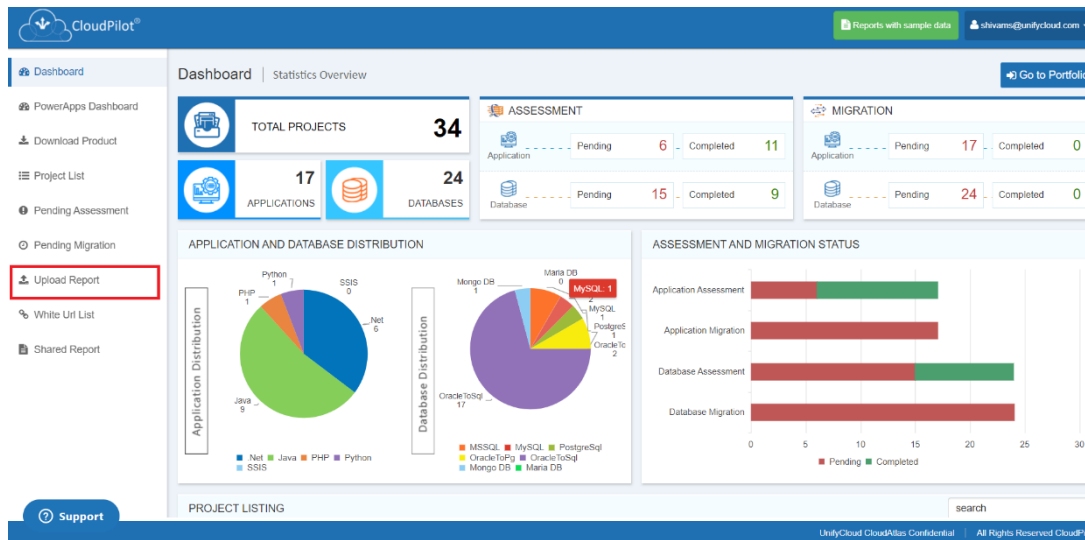


**Figure 32 K: Database Upload Report Page**

6. Your dependency report is successfully uploaded and can be accessed through the dashboard.

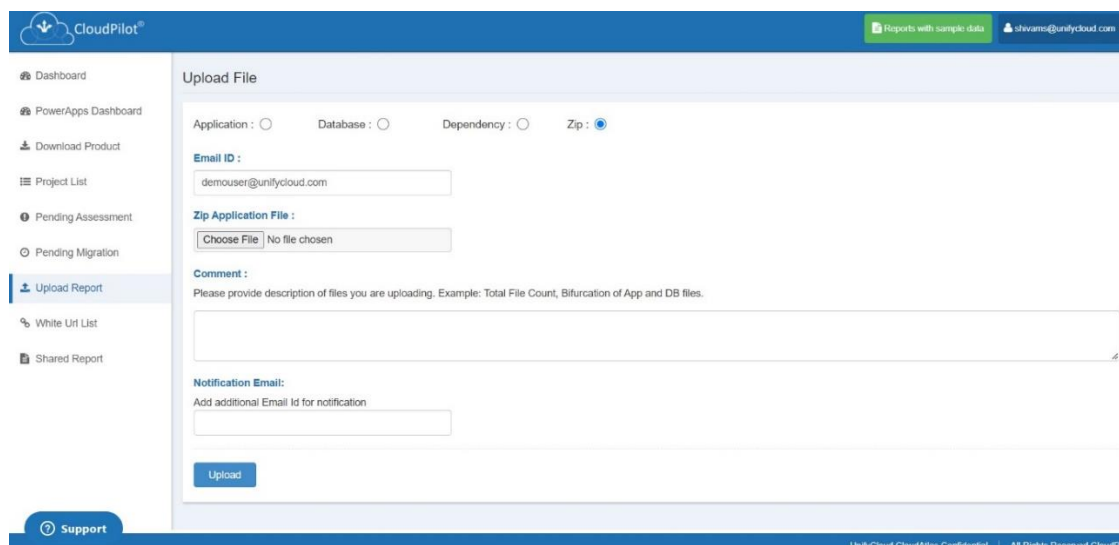
### 3.1.7 Upload ZIP files to CloudPilot Portal

1. Go to the CloudPilot portal: <https://cloudpilot.cloudatlasinc.com/> and login with your credentials.
2. Once dashboard is launched, click on the 'Upload Report' option, as shown in [Figure 32 L: CloudPilot Portal Dashboard](#).



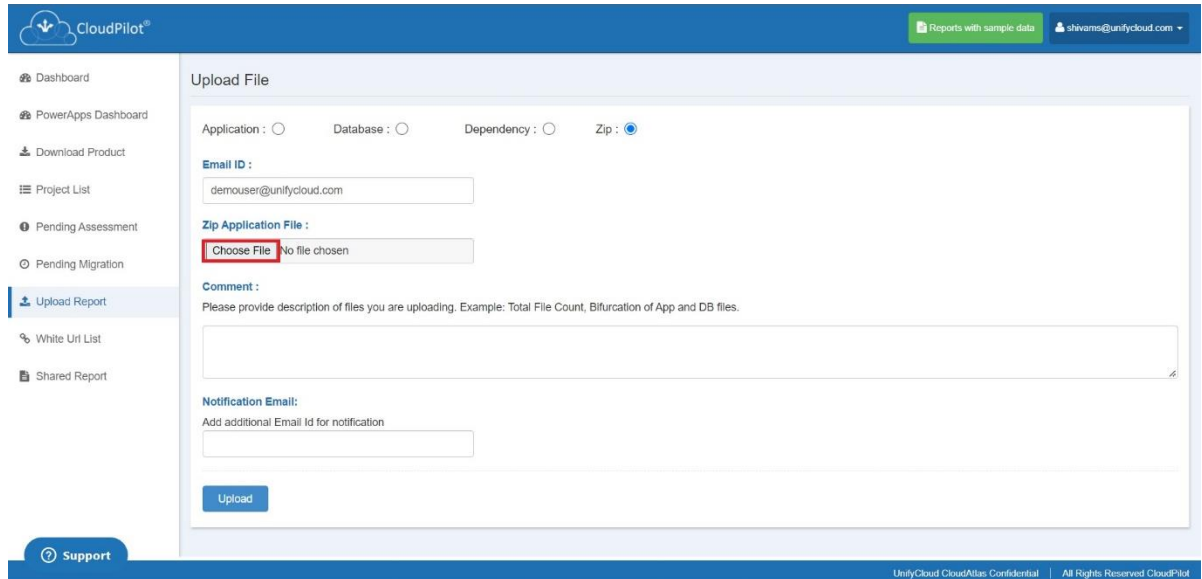
**Figure 32 L: CloudPilot Portal Dashboard**

3. In the upload report screen, you will see the upload ZIP file option. **This option enables users to upload their applications, databases, and dependencies together in a single folder**, as shown in [Figure 32 M: Zip File Upload](#).



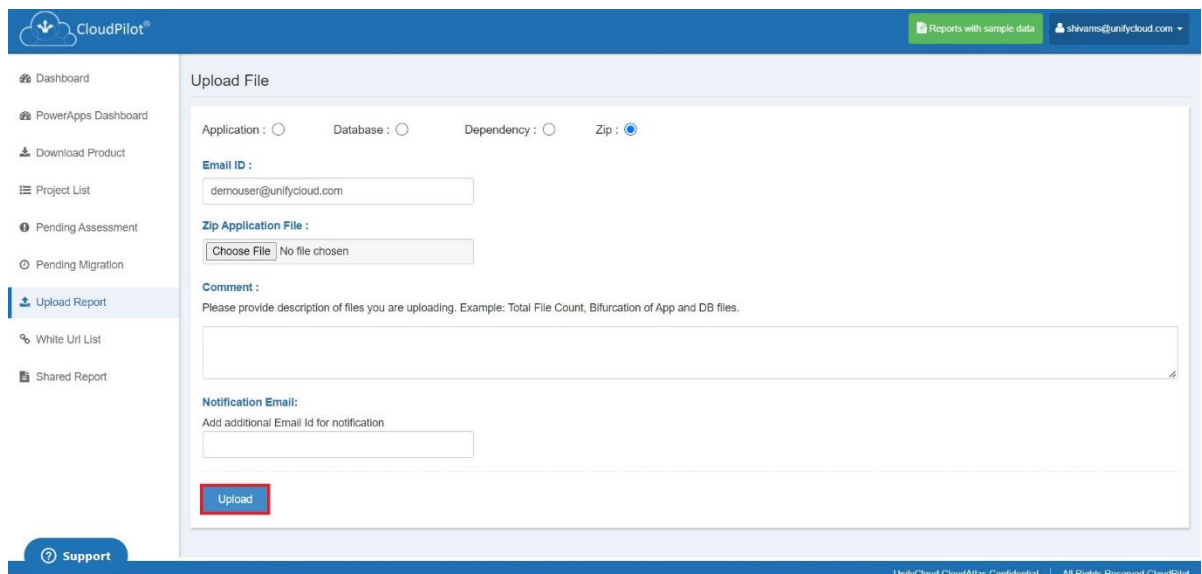
**Figure 32 M: ZIP File Upload**

4. Once you have created a ZIP file containing the XML and JSON files for your application, databases, and dependencies; click on the 'choose file' option as shown in [Figure 32 N: Choose ZIP File](#).



**Figure 32 N: Choose ZIP File**

5. Once you have selected the file, click on the 'Upload' button as shown in [Figure 32 O: Database Upload Report Page](#).



**Figure 32 O: Database Upload Report Page**

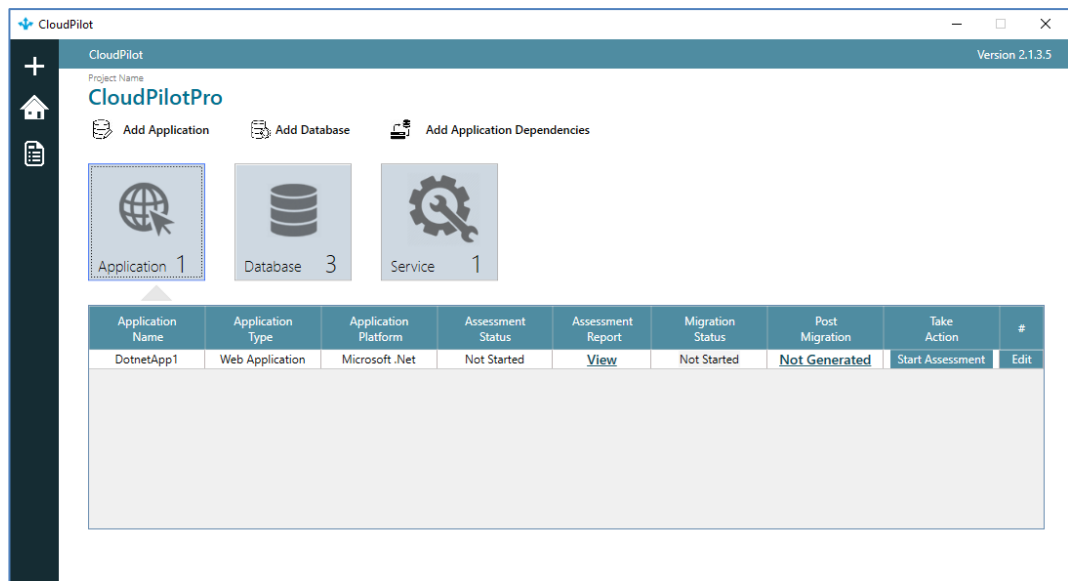
6. Your ZIP File is successfully uploaded, and your applications, databases, and dependencies can be accessed through the CloudPilot dashboard.

## 3.3 Scanning Application, Database and Services

### 3.3.1 Application Scan

#### Microsoft. Net Technology

1. To start the assessment of the application, click **Application** thumbnail and then click **Start Assessment** as shown in [Figure 33: Microsoft.Net Application – Scan](#).



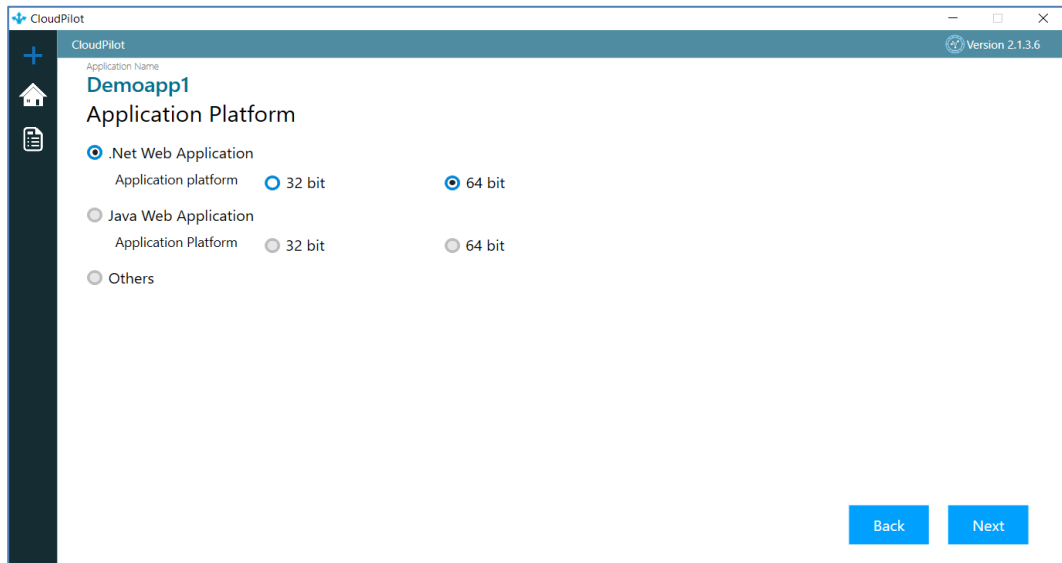
**Figure 33: Microsoft. Net Application – Scan**

**NOTE:** Based on the survey conducted on Application and Infrastructure Platform, the questionnaire has been created here.

#### Application Platform Details

1. Select the specific radio button for Application Platform then click **Next** as shown in [Figure 34: Dot Net Web Application Platform](#).

**NOTE:** At any time during the questionnaire, if you need to make any changes in your previous windows, click **Back** if applicable.



**Figure 34: Dot Net Web Application Platform**

### Java Platform

1. To start the assessment of the Java application, click **Application** thumbnail and then click **Start Assessment** as shown in [Figure 35: Java Application – Scan](#).

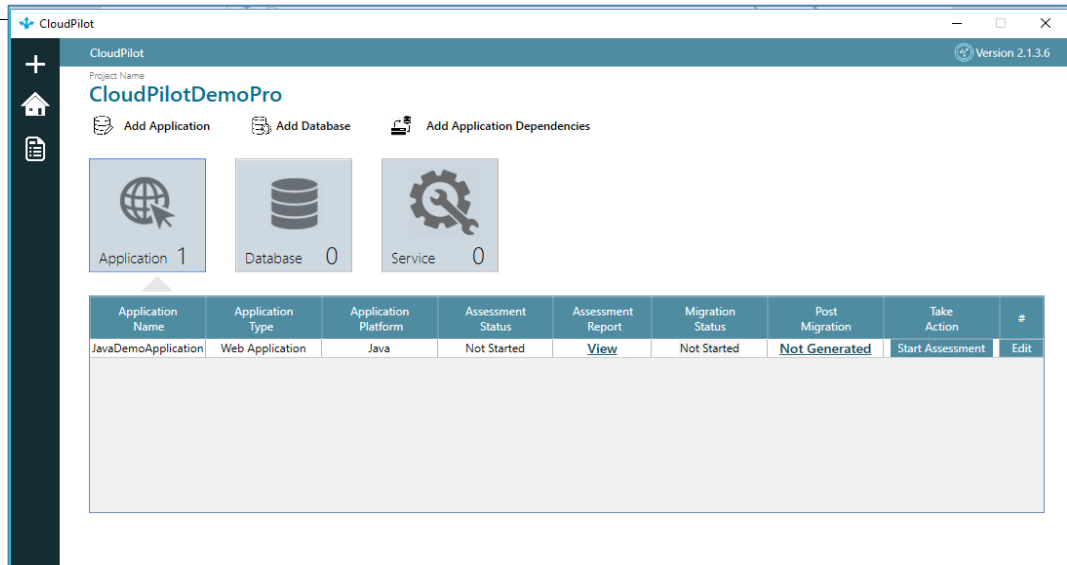


Figure 35: Java Application – Scan

### 3.3.2 Database Scan

1. To start the assessment of the database, click **Database** thumbnail and then click **Start Assessment** as shown in [Figure 38: Database – Scan](#).

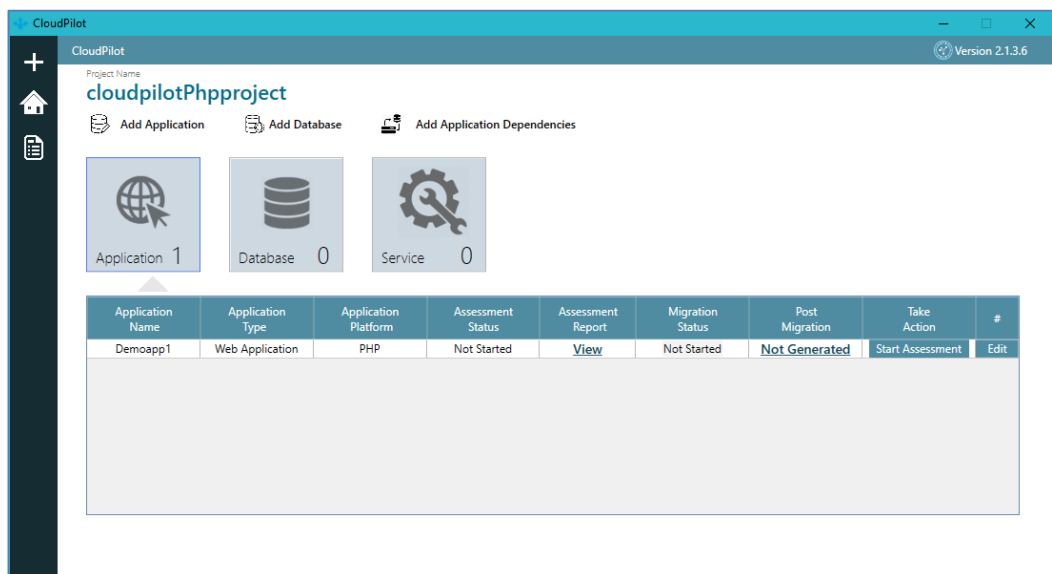
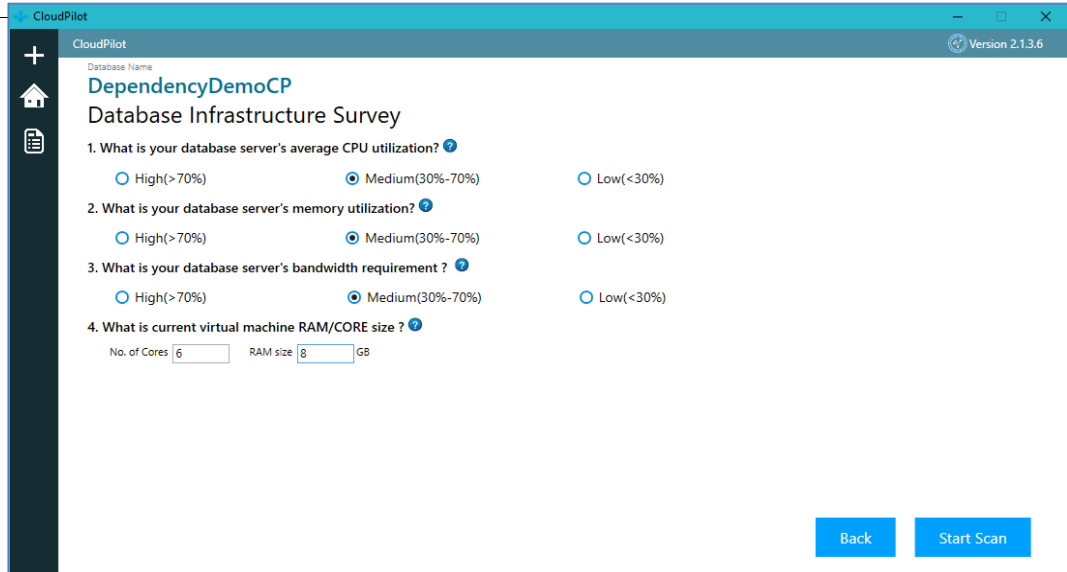


Figure 38: Database – Scan

2. Provide appropriate details based on the survey questions about infrastructure of your database and click on **Start Scan**.



CloudPilot

Database Name: DependencyDemoCP

### Database Infrastructure Survey

- What is your database server's average CPU utilization?
  - ☐ High(>70%)
  - ☒ Medium(30%-70%)
  - ☐ Low(<30%)
- What is your database server's memory utilization?
  - ☐ High(>70%)
  - ☒ Medium(30%-70%)
  - ☐ Low(<30%)
- What is your database server's bandwidth requirement?
  - ☐ High(>70%)
  - ☒ Medium(30%-70%)
  - ☐ Low(<30%)
- What is current virtual machine RAM/CORE size?
 

No. of Cores  RAM size  GB

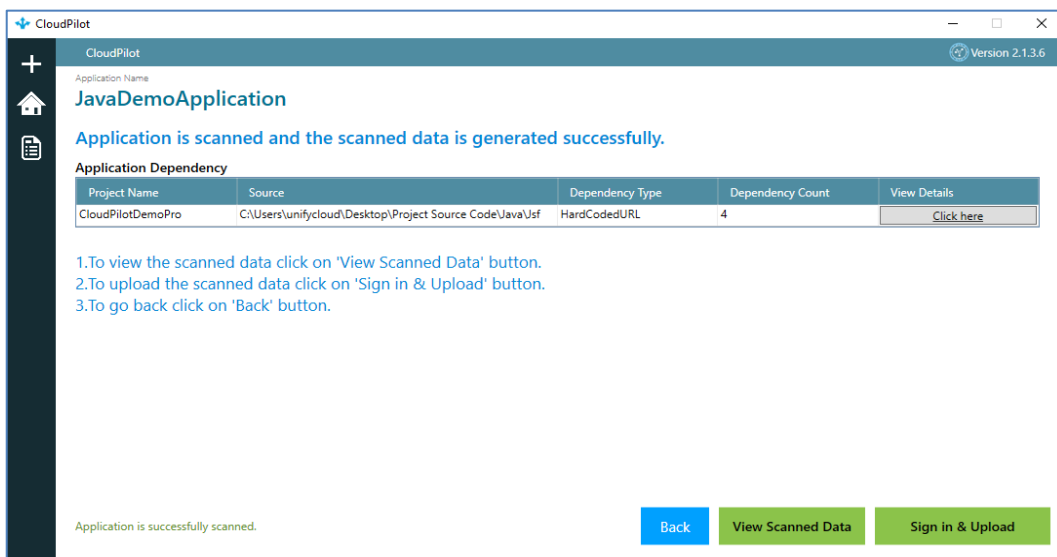
Back Start Scan

**Figure 38 A: Database Infrastructure Survey – Questionnaire**

### 3.3.3 Application Dependencies Scan

- To start the assessment of the services, click **Services** thumbnail and then click **Start Assessment** as shown in [Figure 39: Services – Scan](#).

**NOTE:** To scan for application dependencies there must be at least one application details added.



CloudPilot

Application Name: JavaDemoApplication

Application is scanned and the scanned data is generated successfully.

#### Application Dependency

Project Name	Source	Dependency Type	Dependency Count	View Details
CloudPilotDemoPro	C:\Users\unifycloud\Desktop\Project Source Code\Java\Usf	HardCodedURL	4	<a href="#">Click here</a>

1.To view the scanned data click on 'View Scanned Data' button.  
 2.To upload the scanned data click on 'Sign in & Upload' button.  
 3.To go back click on 'Back' button.

Application is successfully scanned.

Back View Scanned Data Sign in & Upload

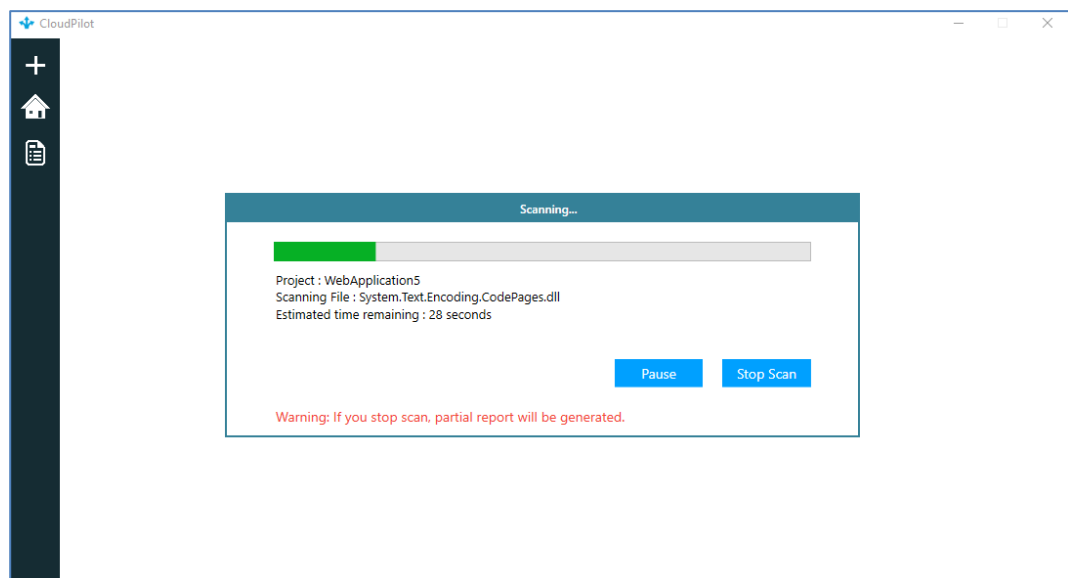
**Figure 39: Services – Scan**

Once the details for application, database and application dependencies are complete, the "scanning progress bar" appears as shown in [Figure 40: Scanning Progress Bar Window](#).

**NOTE:** If you want to pause the current scanning, click **Pause** but it is advised to continue the scanning.

**NOTE:** If you want to stop the scanning at any time, click **Stop Scan** which will redirect you to [Figure 32: Thumbnails](#).

**WARNING:** If you stop scan during the scanning partial report will be generated, so it is advised to continue the scanning.



**Figure 40: Scanning Progress Bar Window**

Once the scanning is completed, you will get a window to **View Scanned Data** or **Sign in & Upload** on CloudPilot® tool as shown in [Figure 41: Dependency Details](#).



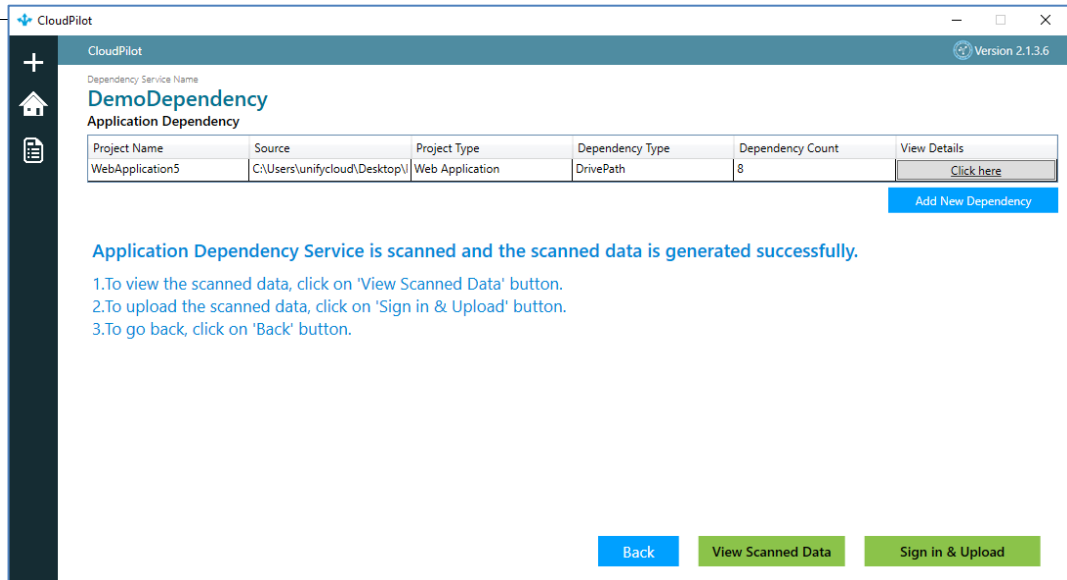
## 3.4 Upload Scanned Data

### 3.4.1 Assessment Scan Data List

Once the scanning of application, database and application dependencies are completed. You will be redirected to the Dependency Details window as shown in [Figure 41: Dependency Details](#).

**IMPORTANT:**

1. For more information on dependencies, click on **Click here** button as shown in [Figure 41: Dependency Details](#).
2. To add new dependencies, click **Add New Dependency** button which will redirect you to screen as shown in [Figure 28: Add Application Dependencies](#).
3. To upload the scanned application data directly, click **Sign In & Upload** button as shown in [Figure 43: Sign in & Upload Scanned Data](#).
4. At any time during the scanning if you need to make any changes in your previous windows, click **Back**.



**Figure 41: Dependency Details**

1. Click **View Scanned Data** to view the multiple assessment file data list as shown in

[Figure 42: Assessment Files Data List.](#)

2. To view multiple files, select multiple **Assessment files** check box and click **View All files** as shown in [Figure 42: Assessment Files Data List.](#)

**NOTE:** You can click either of the following function buttons with the list of assessment scanned files:

**Open button:** Directly open the scanned data.

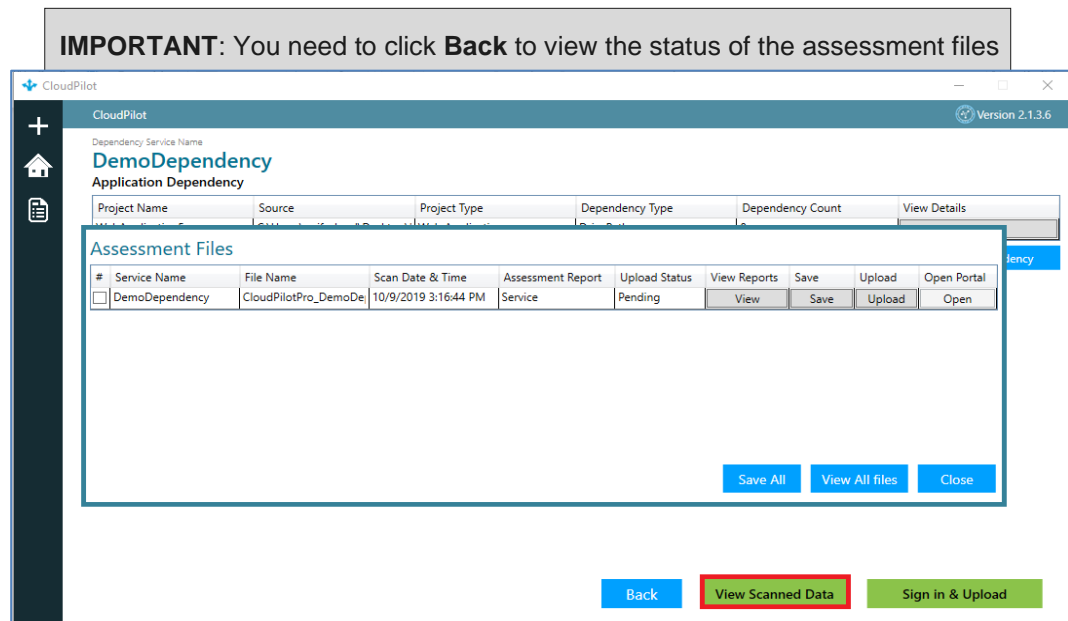
**Save button:** Save the scanned data to the existing location as per the user.

**Upload button:** Upload the scanned data on the CloudPilot® portal.

**View button:** View the assessment report on the CloudPilot® portal.

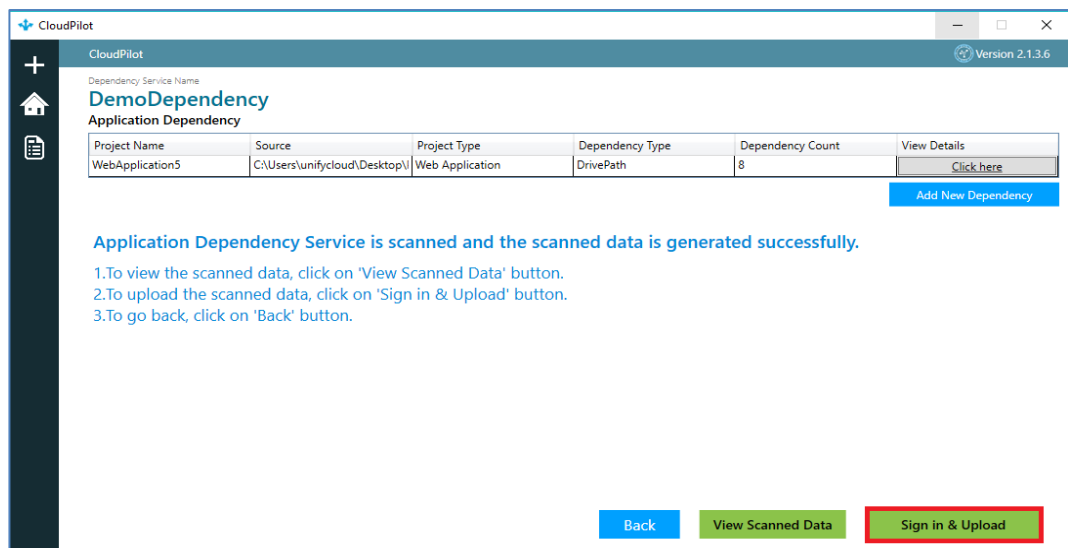
**Figure 42: Assessment Files Data List**

3. Click **Close** to close the assessment file dialog box.



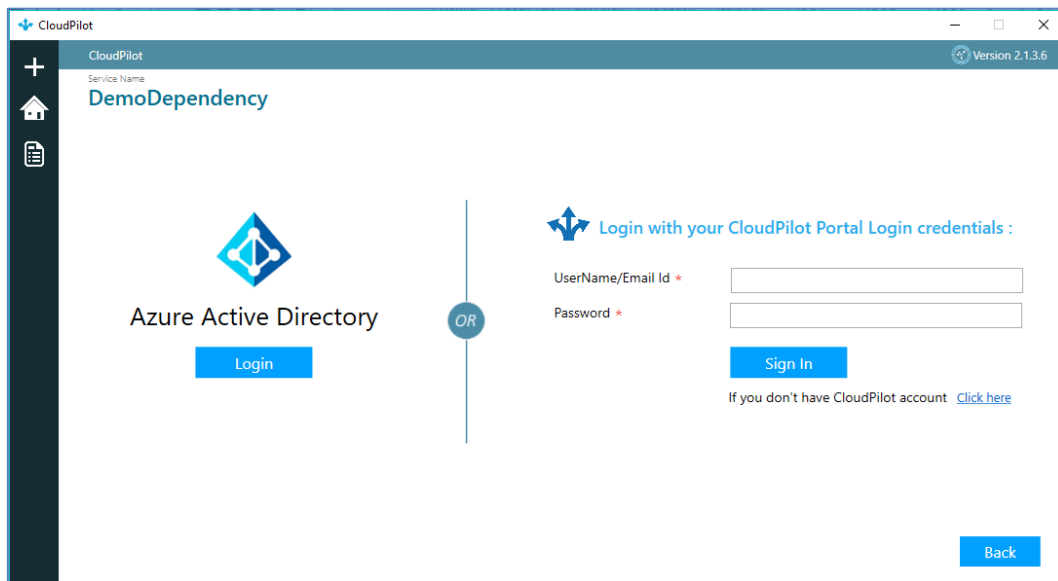
### 3.4.2 Upload Assessment Scanned Data

1. To upload the scanned application data, click **Sign in & Upload** as shown in [Figure 43: Sign in & Upload Scanned Data](#).



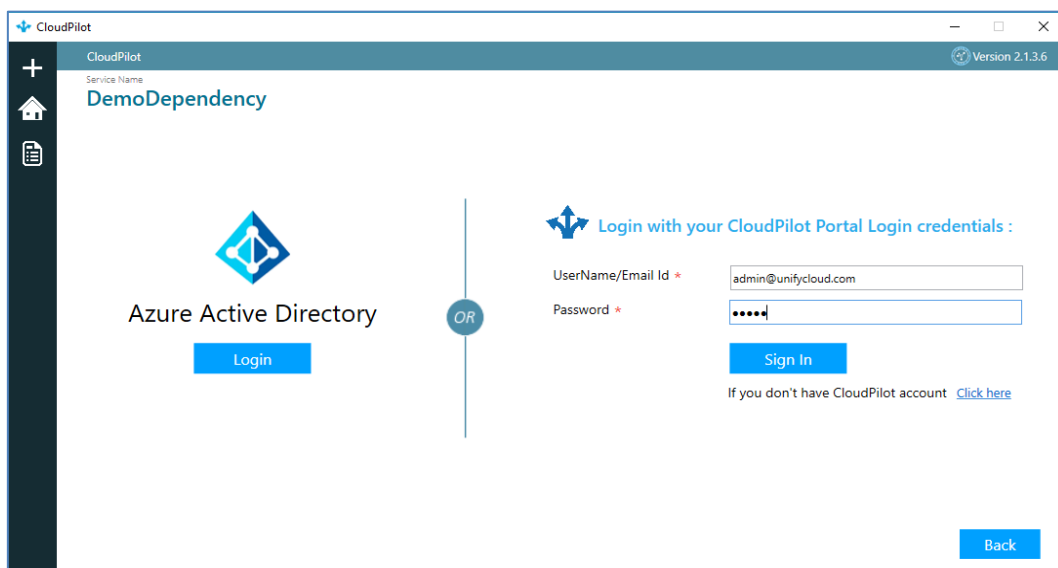
**Figure 43: Sign in & Upload Scanned Data**

A window will display login details to be entered to access the CloudPilot Migration Tool as shown in [Figure 44: Login Details - CloudPilot Migration Tool](#).



**Figure 44: Login Details - CloudPilot Migration Tool**

You will be redirected to the CloudPilot® portal where you need to again enter the *login credentials* to access the CloudPilot® portal for uploading the application data as shown in [Figure 45: Login Details - CloudPilot Portal](#).

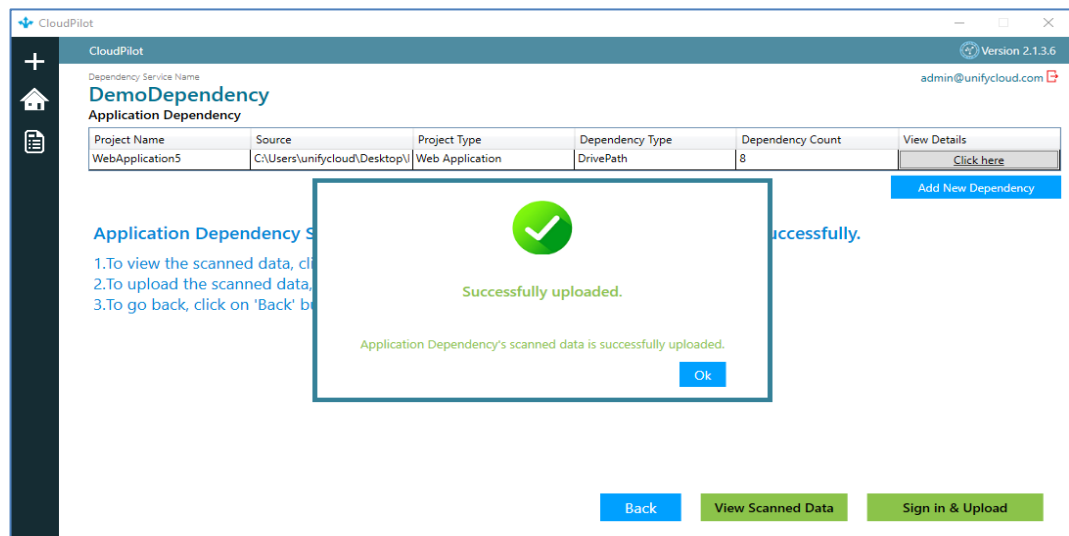


**Figure 45: Login Details - CloudPilot Portal**

After the application data is uploaded, a dialog box will appear with a message "Successfully uploaded." "Application's Scanned Data is successfully uploaded."

2. Click **OK** as shown in [Figure 46: Application Data – Scanned](#).

**IMPORTANT:** You need to click **Back** to view the status of the assessment files uploaded.

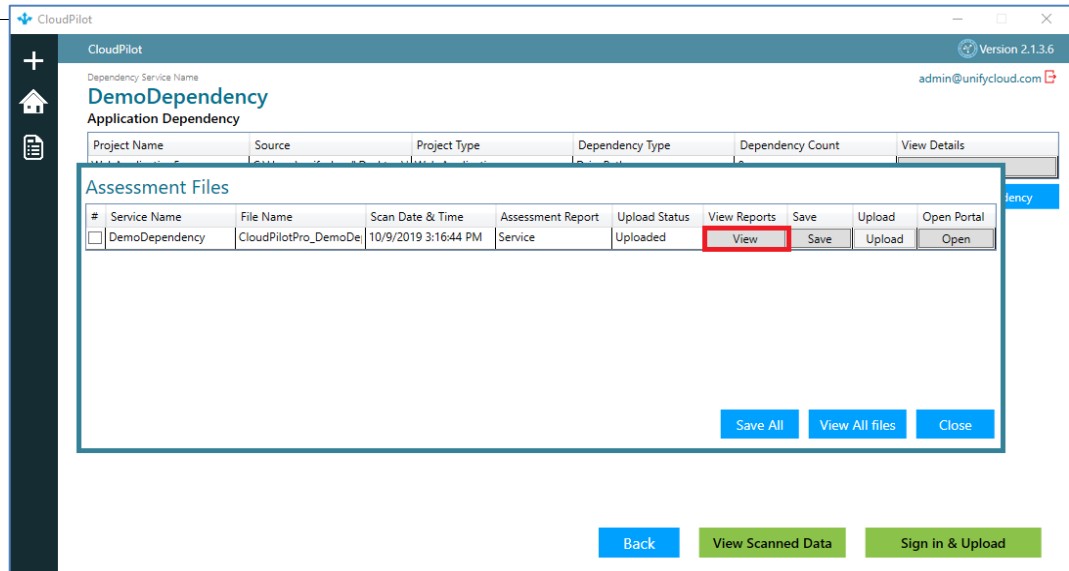


**Figure 46: Application Data – Scanned**

### 3.4.3 Analyze Data Report

There are two ways to analyze the scanned data results:

1. To analyze the scanned results, click **View** button on the assessment file dialog box as shown in [Figure 47: Application – View Portal Button](#).

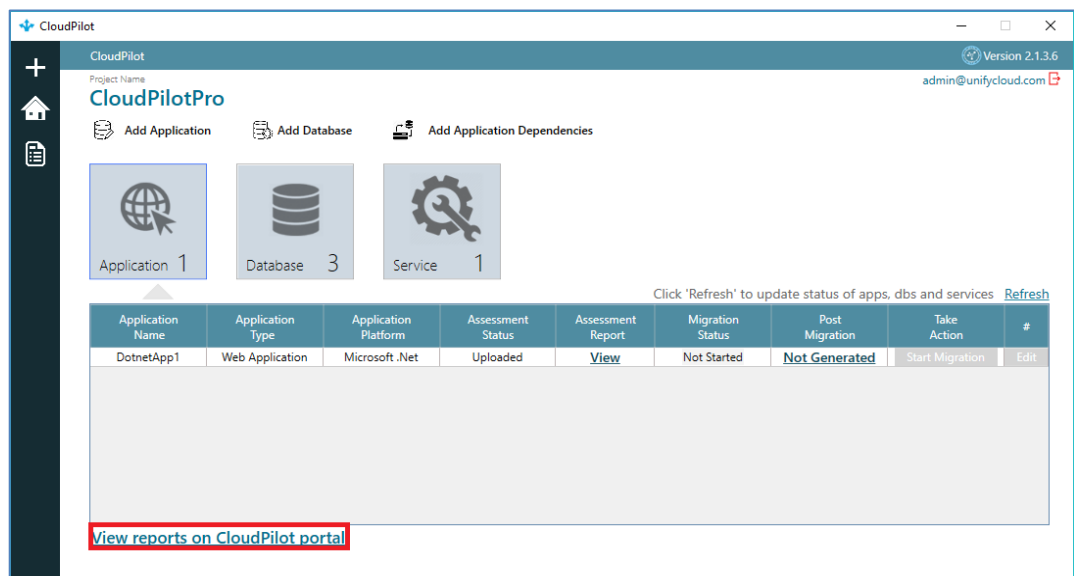


**Figure 47: Application – View Portal Button**

You will be navigated to the CloudPilot Portal as shown in [Figure 49: Work or School Account – Assessment Reports](#).

OR

- To analyze the scanned results, click on **Click here to view the report(s) on CloudPilot portal** button on the CloudPilot Tool window as shown in [Figure 48: Application – View CloudPilot Portal Link](#).



**Figure 48: Application – View CloudPilot Portal Link**

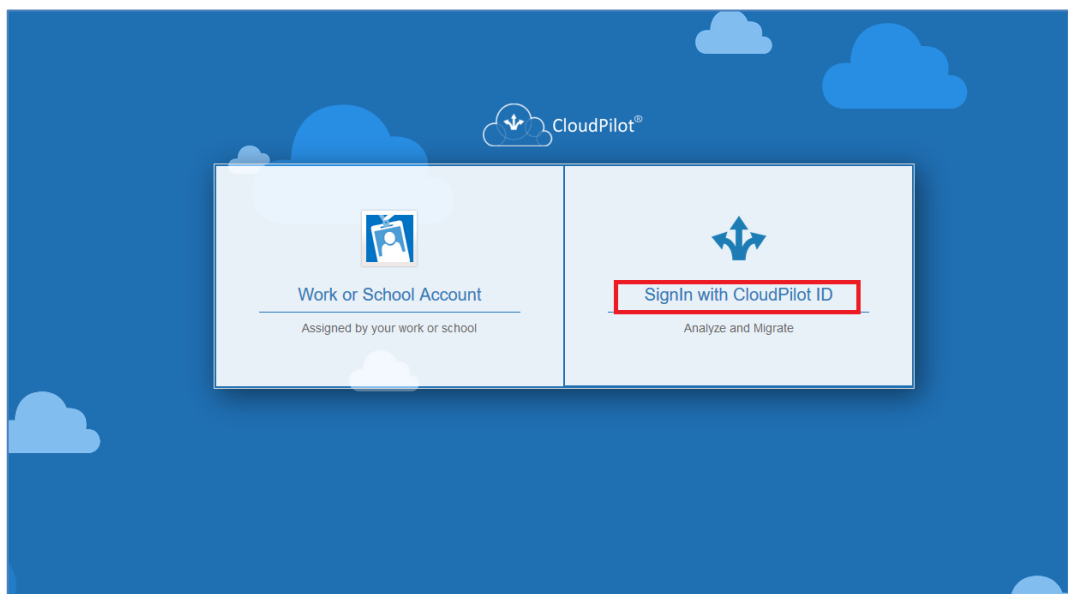
**IMPORTANT:** You need to click **Back** to view the status of the assessment files uploaded and to view the CloudPilot reports on CloudPilot portal.

You will be navigated to the CloudPilot Portal as shown in [Figure 49: Work or School Account – Assessment Reports](#).

### 3.5 Analysis of Scanned Data

After uploading the scanned data, you will be redirected to **CloudPilot®** portal to analyze the application, database and application dependencies scanned reports.

1. Click **Work or School Account or Sign in with CloudPilot ID** button and enter your credentials to access CloudPilot dashboard as shown in [Figure 49: SignIn with CloudPilot ID – Assessment Reports](#).

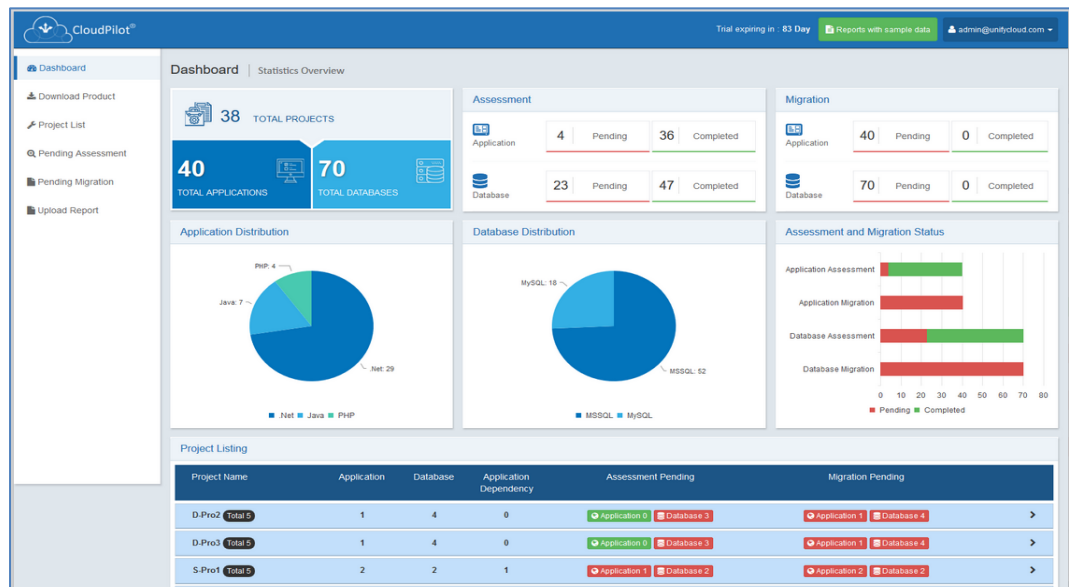


**Figure 49: Sign in with CloudPilot ID – Assessment Reports**

You will login to the CloudPilot Dashboard which contains the statistical overview

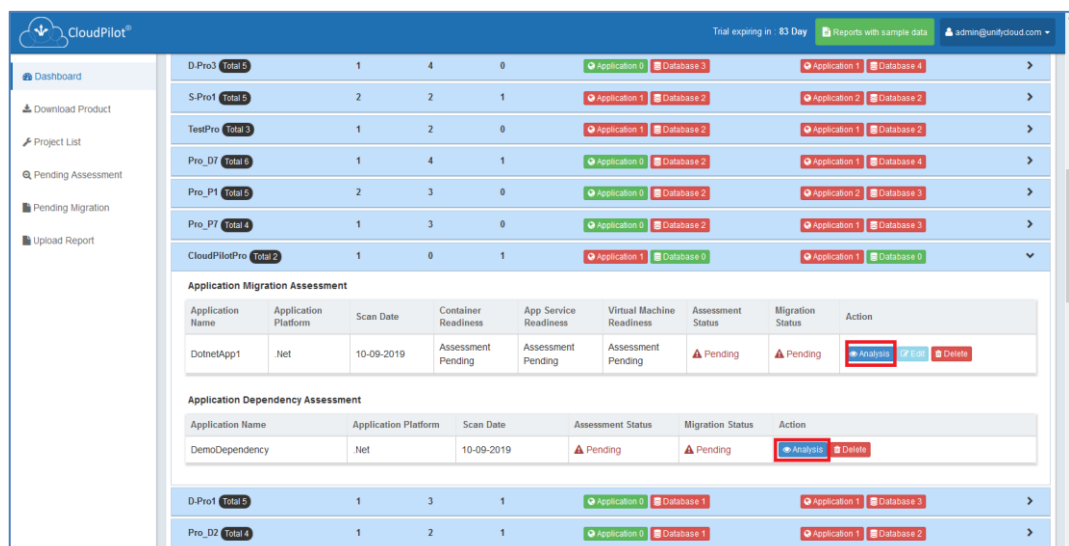
of the application, database and application dependencies assessment as shown in [Figure 50: CloudPilot® - Dashboard](#).

**NOTE:** You need to implement all the recommendations to remediate your application, database and application dependencies.



**Figure 50: CloudPilot® - Dashboard**

2. Click **Analysis** button as shown in [Figure 51: Analysis Dashboard](#).

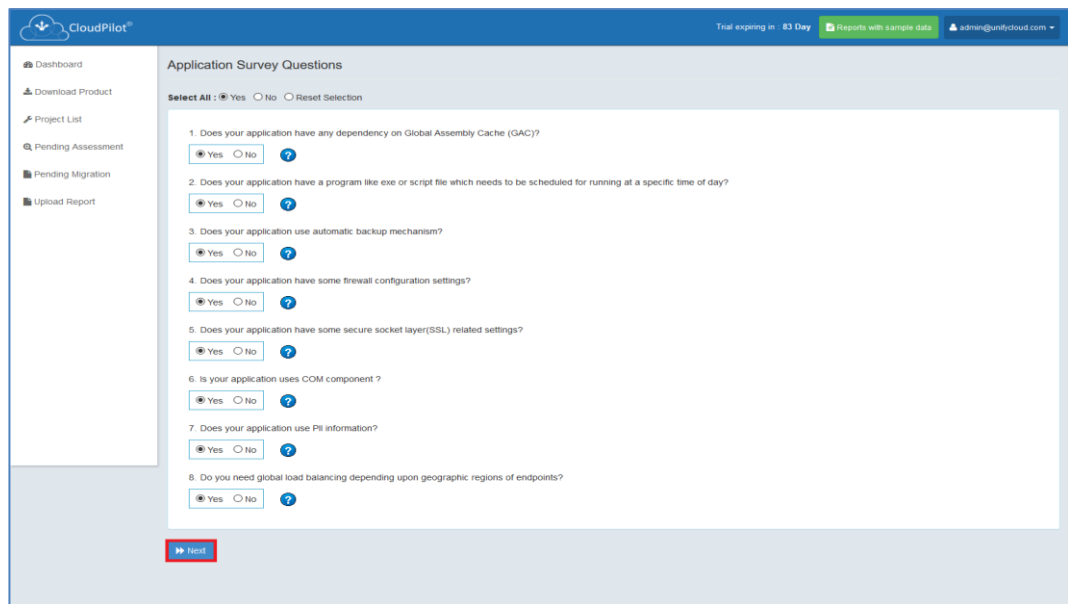


**Figure 51: Analysis Dashboard**



A list of the questionnaire related to your application appears.

3. Select the specific radio button and click **Next** as shown in [Figure 52: List of Questionnaire](#).



CloudPilot® Trial expires in: 83 Day Reports with sample data admin@unifycloud.com

Dashboard  
Download Product  
Project List  
Pending Assessment  
Pending Migration  
Upload Report

### Application Survey Questions

Select All: ☒ Yes ☐ No ☐ Reset Selection

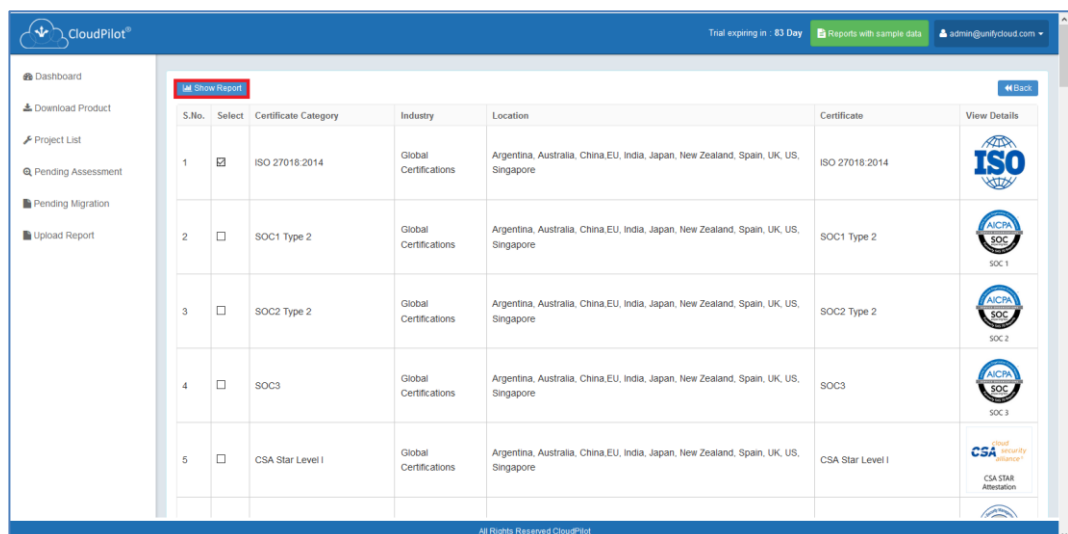
- Does your application have any dependency on Global Assembly Cache (GAC)?  
☒ Yes ☐ No ?
- Does your application have a program like exe or script file which needs to be scheduled for running at a specific time of day?  
☒ Yes ☐ No ?
- Does your application use automatic backup mechanism?  
☒ Yes ☐ No ?
- Does your application have some firewall configuration settings?  
☒ Yes ☐ No ?
- Does your application have some secure socket layer(SSL) related settings?  
☒ Yes ☐ No ?
- Is your application uses COM component ?  
☒ Yes ☐ No ?
- Does your application use PII information?  
☒ Yes ☐ No ?
- Do you need global load balancing depending upon geographic regions of endpoints?  
☒ Yes ☐ No ?

**Next**

**Figure 52: List of Questionnaire**






A window appears with Azure Compliance Certificates.

4. Select the Azure Compliance Certificate check box.
5. Click **Show Report** to generate the recommendation report based on your application scanned as shown in [Figure 53: Azure Compliance Certificate](#).



CloudPilot® Trial expires in: 83 Day Reports with sample data admin@unifycloud.com

**Show Report** Back

S.No.	Select	Certificate Category	Industry	Location	Certificate	View Details
1	<input checked="" type="checkbox"/>	ISO 27018:2014	Global Certifications	Argentina, Australia, China,EU, India, Japan, New Zealand, Spain, UK, US, Singapore	ISO 27018:2014	
2	<input type="checkbox"/>	SOC1 Type 2	Global Certifications	Argentina, Australia, China,EU, India, Japan, New Zealand, Spain, UK, US, Singapore	SOC1 Type 2	
3	<input type="checkbox"/>	SOC2 Type 2	Global Certifications	Argentina, Australia, China,EU, India, Japan, New Zealand, Spain, UK, US, Singapore	SOC2 Type 2	
4	<input type="checkbox"/>	SOC3	Global Certifications	Argentina, Australia, China,EU, India, Japan, New Zealand, Spain, UK, US, Singapore	SOC3	
5	<input type="checkbox"/>	CSA Star Level I	Global Certifications	Argentina, Australia, China,EU, India, Japan, New Zealand, Spain, UK, US, Singapore	CSA Star Level I	

All Rights Reserved CloudPilot

**Figure 53: Azure Compliance Certificate**

### 3.5.1 Assessment Report

#### Microsoft. Net Technology

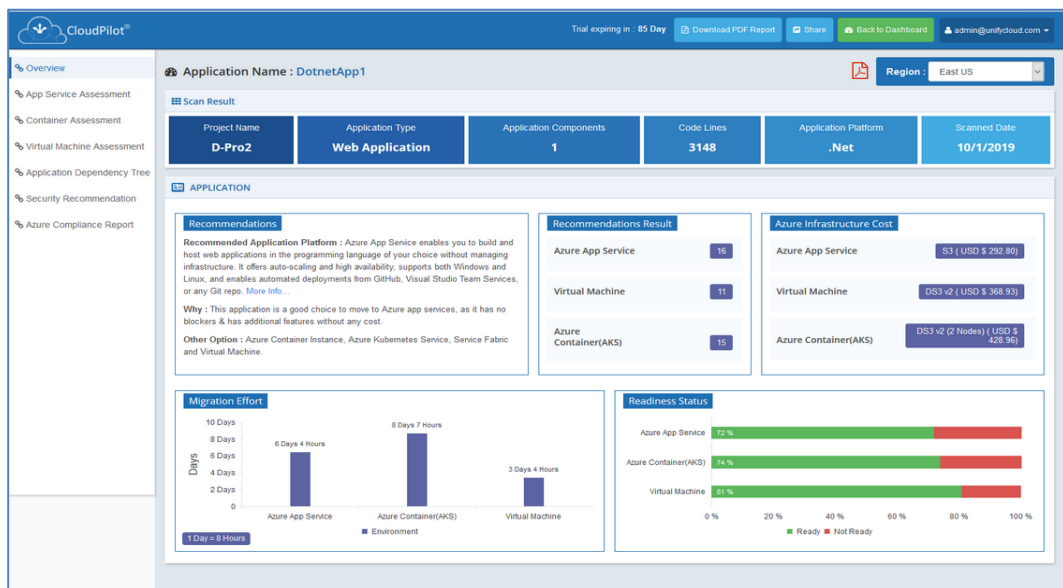
Application Name: MyApp26Jan, the report appears as shown in [Figure 54: CloudPilot® - Overview Report](#).

Recommendation report contains recommendation setting related to source code based on the scanning as well as recommendation setting for configuration, security, network, and database based on the answers provided by the user/developer.

#### Overview Report

Refer to [Figure 54: CloudPilot® - Overview Report](#): This is the overall summary received after the application and database are scanned. It shows the number of files/projects scanned, how many data points were found in the application, the reason for the change, the percentage of changes that are mandatory, optional, and the percentage of files, which are ready to migrate to Azure and file details.

**NOTE:** Identity readiness recommendation depends on the application and database platform.



**Figure 54: CloudPilot® - Overview Report**

#### Application Recommendation

1. Container Assessment
2. App Service Assessment

### 3. Virtual Machine Assessment

#### Database Recommendation

1. Database Assessment
  - a. Azure SQL Readiness
  - b. SQL on Virtual Machine Readiness
  - c. SQL Managed Instance Readiness

#### Security Recommendation

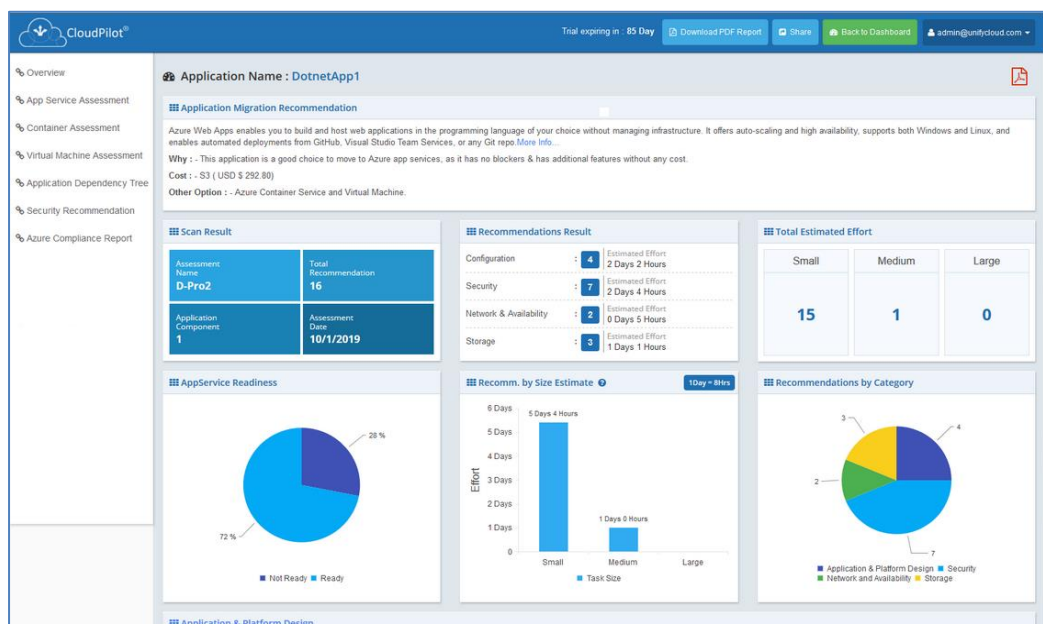
1. Application Security Readiness
2. Database Security Readiness

#### Application Assessment Report

This report shows the list of recommendations for all the application script scanned.

#### App Service Assessment

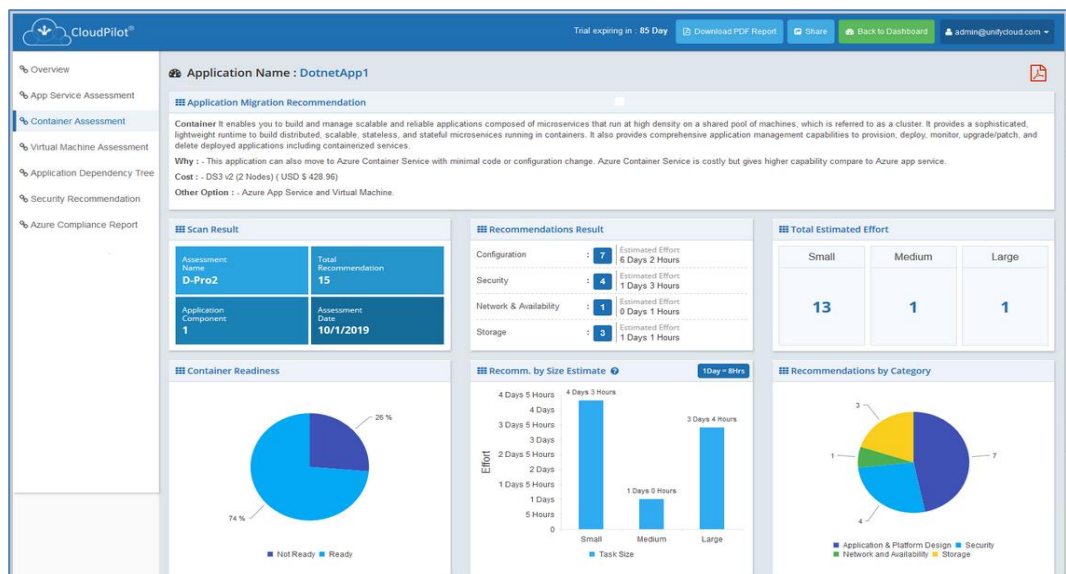
Refer to [Figure 55: App Service Assessment](#): The recommendation report for app service readiness contains recommendation setting related to source code based on the scanning as well as recommendation setting for configuration, security, network, and storage based on the answers provided by the user/developer.



**Figure 55: App Service Assessment**

## Container Assessment

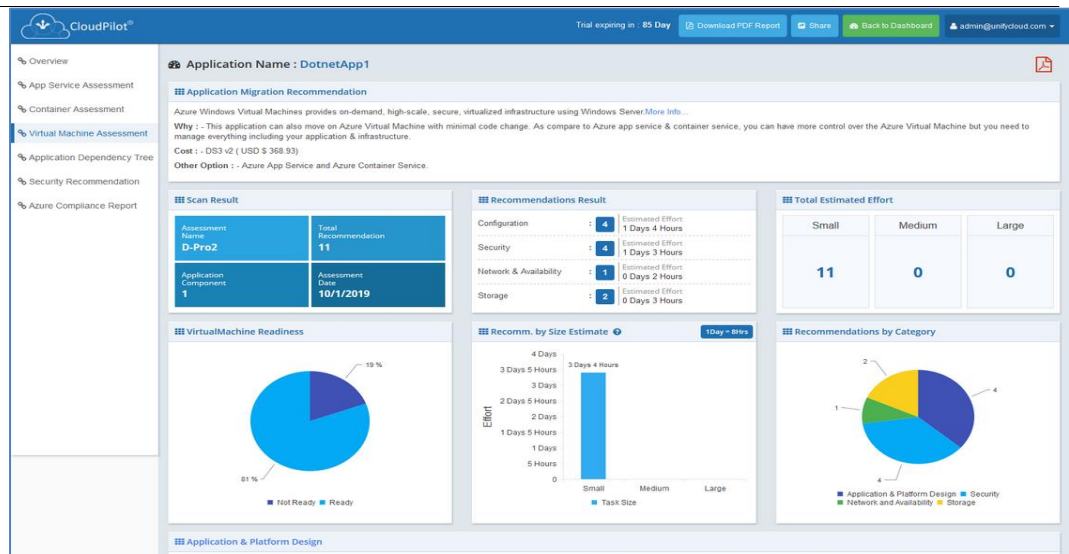
Refer to [Figure 56: Container Assessment](#): The recommendation report for container readiness contains recommendation setting related to source code based on the scanning as well as recommendation setting for configuration, security, network, and storage based on the answers provided by the user/developer.



**Figure 56: Container Assessment**

## Virtual Machine Assessment

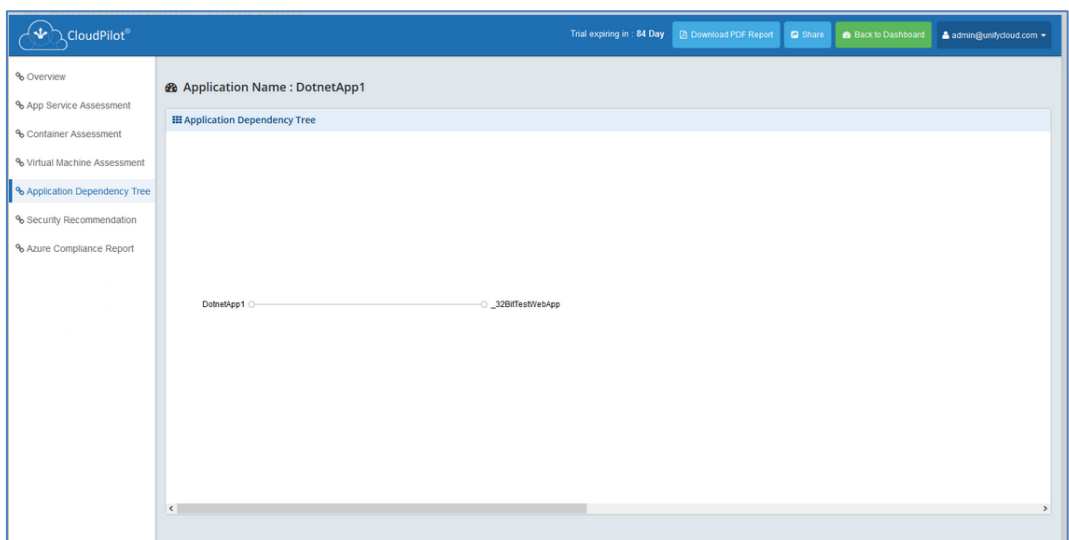
Refer to [Figure 57: Virtual Machine Assessment](#): The recommendation report for virtual machine readiness contains recommendation setting related to source code based on the scanning as well as recommendation setting for configuration, security, network, and storage based on the answers provided by the user/developer.



**Figure 57: Virtual Machine Assessment**

## Application Dependency Tree

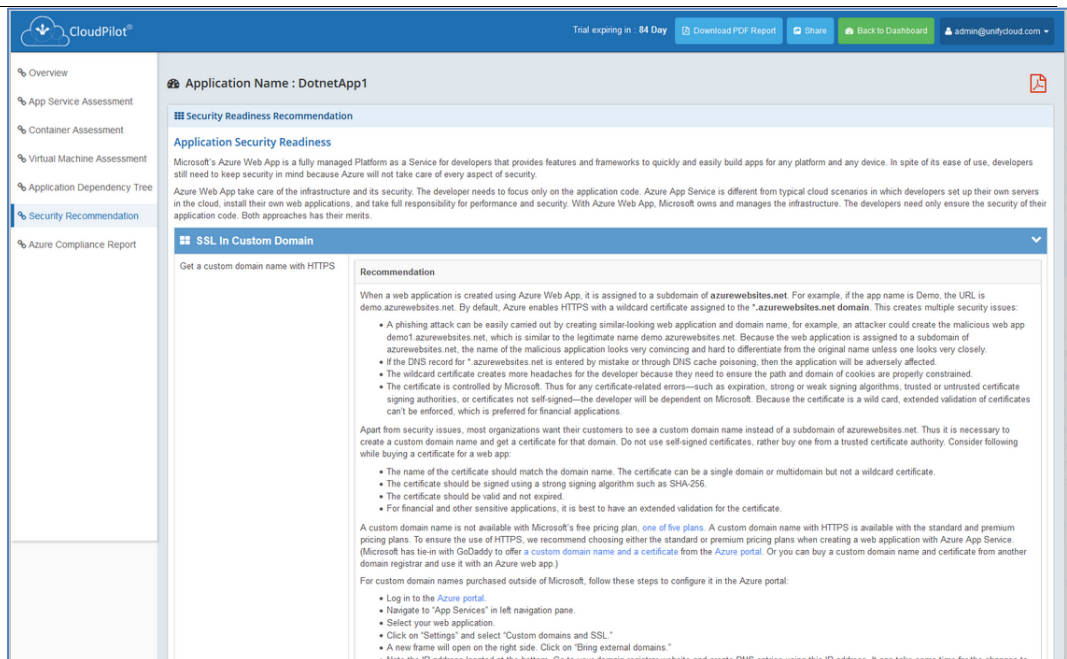
Refer to [Figure 58: Project Dependency Tree](#): This report shows the dependency of the application component.



**Figure 58: Project Dependency Tree**

## Security Assessment Report

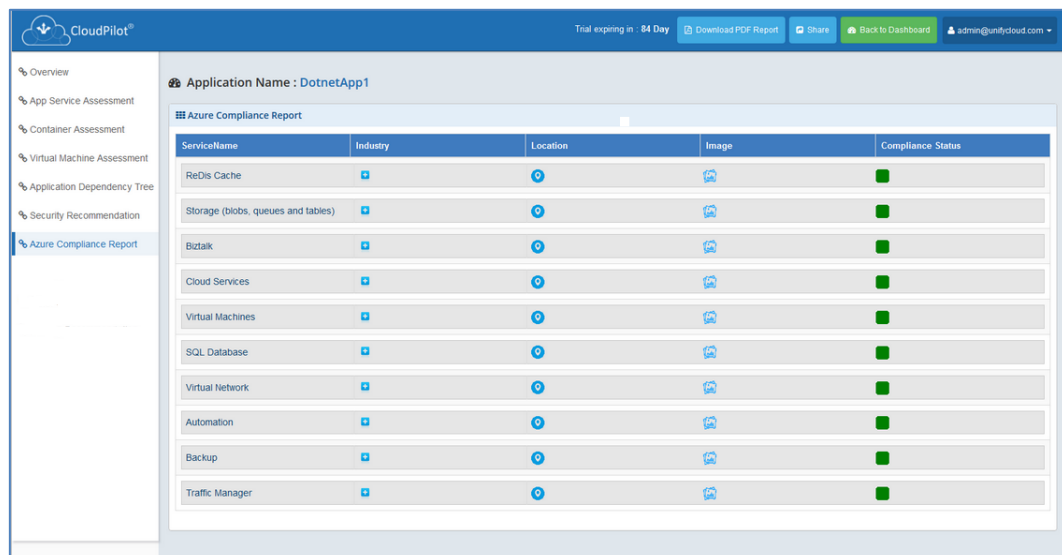
Refer to [Figure 59: Security Recommendation](#): This report shows the list of security-related recommendations for application and database security readiness.



**Figure 59: Security Recommendation**

## Azure Compliance Report

Refer to [Figure 60: Azure Compliance Report](#): This report shows the compliance status of the services.



ServiceName	Industry	Location	Image	Compliance Status
Redis Cache	☑	📍	🖼️	🟢
Storage (blobs, queues and tables)	☑	📍	🖼️	🟢
Biztalk	☑	📍	🖼️	🟢
Cloud Services	☑	📍	🖼️	🟢
Virtual Machines	☑	📍	🖼️	🟢
SQL Database	☑	📍	🖼️	🟢
Virtual Network	☑	📍	🖼️	🟢
Automation	☑	📍	🖼️	🟢
Backup	☑	📍	🖼️	🟢
Traffic Manager	☑	📍	🖼️	🟢

**Figure 60: Azure Compliance Report**

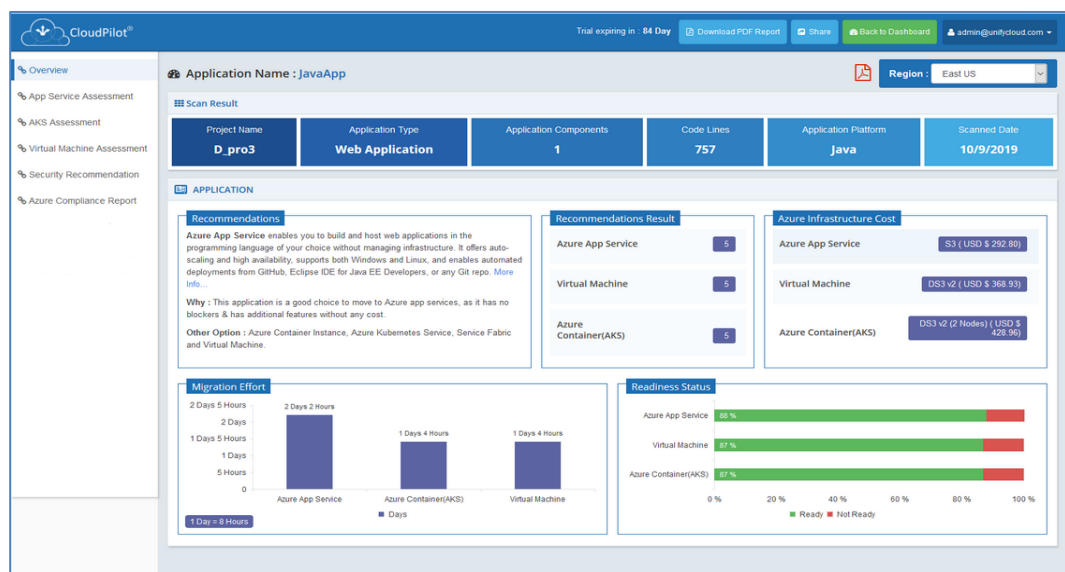
## Java Application Assessment Report

Recommendation report contains recommendation setting related to source code based on the scanning as well as recommendation setting for configuration, security, network, and database based on the answers provided by the user/developer.

## Overview Report

Refer to [Figure 61: CloudPilot® - Overview Report](#): This is the overall summary received after the Java application and database are scanned. It shows the number of files/projects scanned, how many data points were found in the Java application, the reason for the change, the percentage of changes that are mandatory, optional, and the percentage of files, which are ready to migrate to Azure and file details.

**NOTE:** Identity readiness recommendation depends on the application and database platform.



**Figure 61: CloudPilot® - Overview Report**

## Java Application Recommendation

1. Container Assessment
2. App Service Assessment
3. Virtual Machine Assessment

## Database Recommendation

1. Database Assessment
  - a. Azure SQL Readiness
  - b. SQL on Virtual Machine Readiness
  - c. SQL Managed Instance

## Security Recommendation



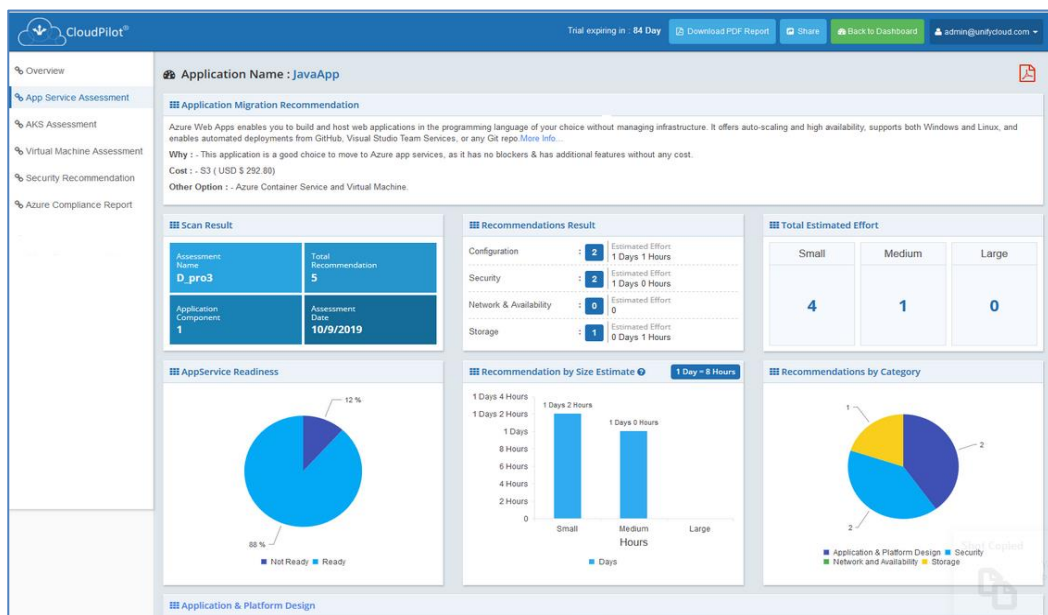
1. Application Security Readiness
2. Database Security Readiness

## Application Assessment Report

This report shows the list of recommendations for all the Java application script scanned.

## App Service Assessment

Refer to [Figure 62: App Service Assessment](#): The recommendation report for Azure app service readiness contains recommendation setting related to source code based on the scanning as well as recommendation setting for configuration, security, network, and storage based on the answers provided by the user/developer.



**Figure 62: App Service Assessment**

## Container Assessment

Refer to [Figure 63: Container Assessment](#): The recommendation report for container readiness contains recommendation setting related to source code based on the scanning as well as recommendation setting for configuration, security, network, and storage based on the answers provided by the user/developer.



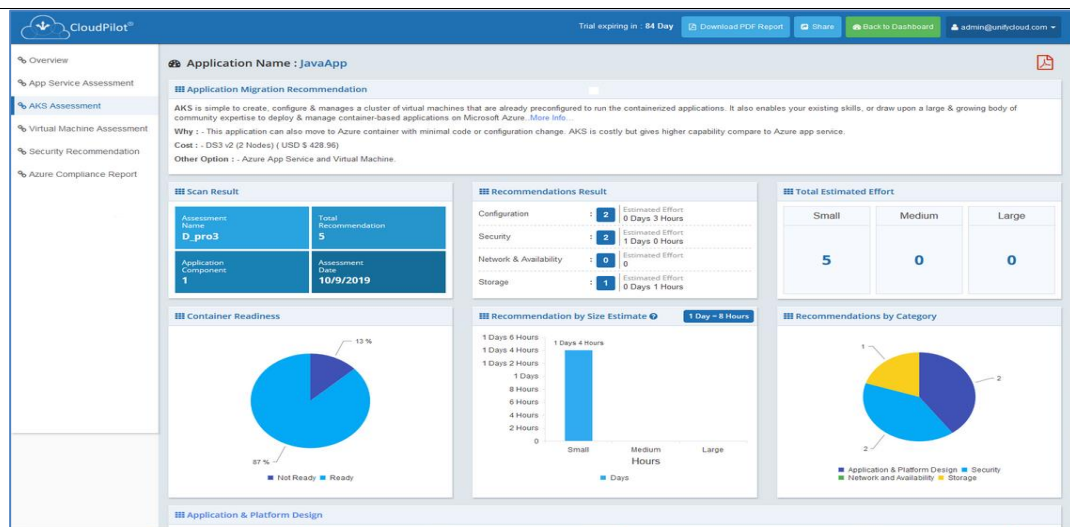


Figure 63: Container Assessment

## Virtual Machine Assessment

Refer to [Figure 64: Virtual Machine Assessment](#): The recommendation report for virtual machine readiness contains recommendation setting related to source code based on the scanning as well as recommendation setting for configuration, security, network, and storage based on the answers provided by the user/develop

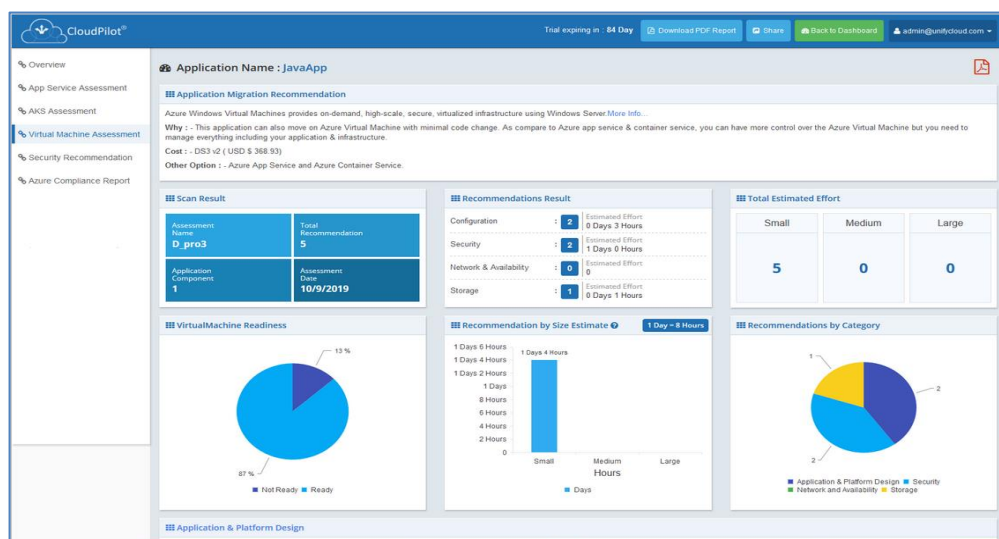
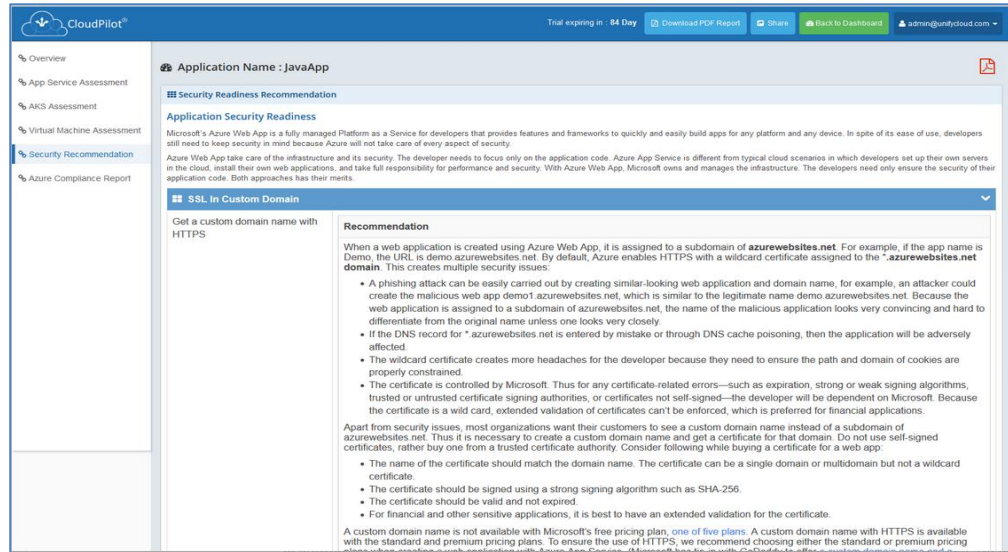


Figure 64: Virtual Machine Assessment

Refer to [Figure 65: Security Recommendation](#): This report shows the list of security-related recommendations for Java application and database security readiness.



**Figure 65: Security Recommendation**

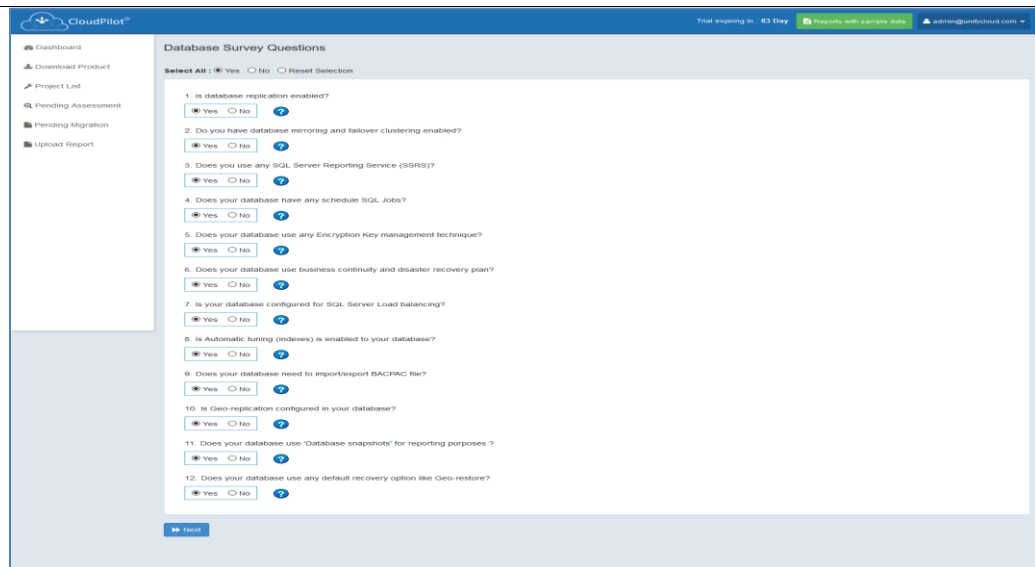
**NOTE:**

1. You can analyze the reports and select application questions as described in [Section 3.4.1: Assessment Report](#).
2. These reports will share the information for those application, database and application dependencies files which are applicable to migrate under cloud readiness recommendations.

## MS SQL Database Assessment Report

In first, a list of the questionnaire related to your application appears.

1. Select the specific radio button and click Next as shown in below List of Questionnaire.



**Database Survey Questions**

Select All: ☒ Yes ☐ No ☐ Reset Selection

1. Is database replication enabled?  
☒ Yes ☐ No
2. Do you have database mirroring and failover clustering enabled?  
☒ Yes ☐ No
3. Does you use any SQL Server Reporting Service (SSRS)?  
☒ Yes ☐ No
4. Does your database have any schedule SQL jobs?  
☒ Yes ☐ No
5. Does your database use any Encryption Key management technique?  
☒ Yes ☐ No
6. Does your database use business continuity and disaster recovery plan?  
☒ Yes ☐ No
7. Is your database configured for SQL Server Load balancing?  
☒ Yes ☐ No
8. Is Automatic tuning (indexes) is enabled to your database?  
☒ Yes ☐ No
9. Does your database need to import/export BACPAC file?  
☒ Yes ☐ No
10. Is Geo-replication configured in your database?  
☒ Yes ☐ No
11. Does your database use 'Database snapshots' for reporting purposes ?  
☒ Yes ☐ No
12. Does your database use any default recovery option like Geo-restore?  
☒ Yes ☐ No

[Next](#)

**Figure 66 A: List of Questionnaire**

## Overview Report

This is the overall summary received after the application and database are scanned. It shows the number of files/projects scanned, how many data points were found in the application, the reason for the change, the percentage of changes that are mandatory, optional, and the percentage of files, which are ready to migrate to Azure and file details

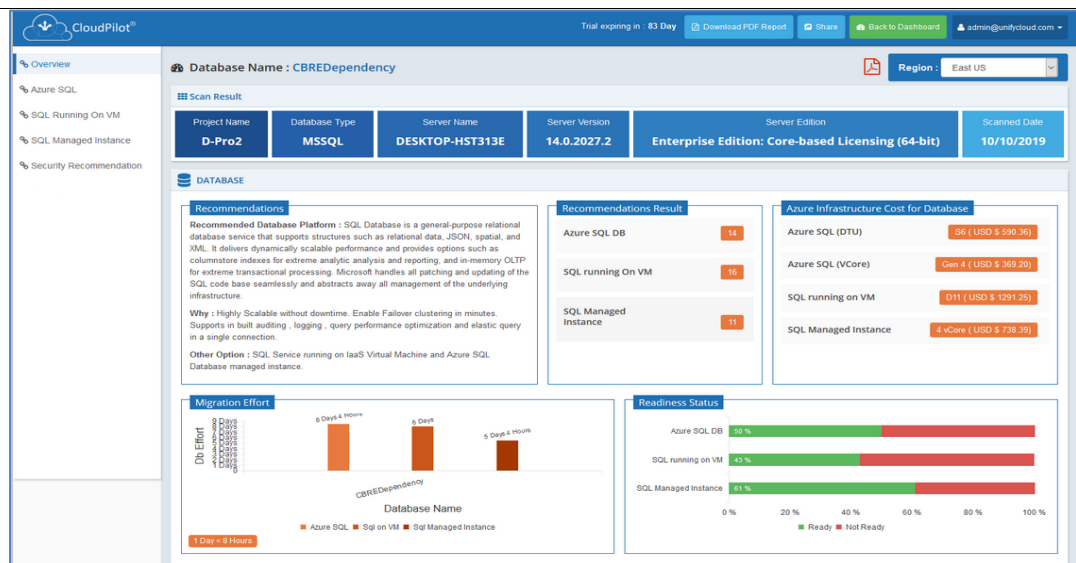


Figure 66 B: Overview Report

## Azure SQL

The recommendation report for database SQL Azure contains recommendation setting for impacted objects, total efforts, and total recommendations.

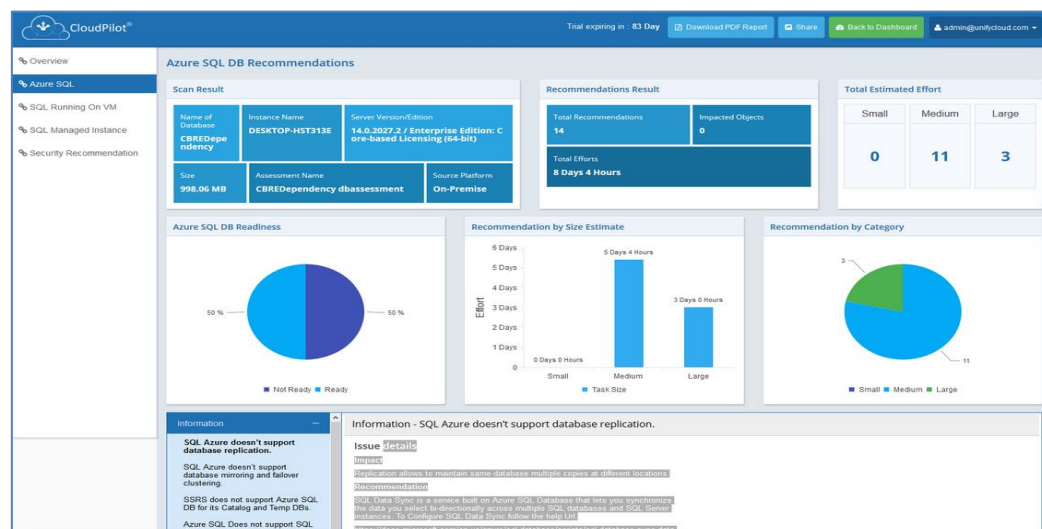


Figure 66 C: Security Recommendation

## SQL Running on VM (Virtual Machine)

The recommendation report for database SQL Running on VM Azure contains recommendation setting for impacted objects, total efforts, and total recommendations also total estimated effort.

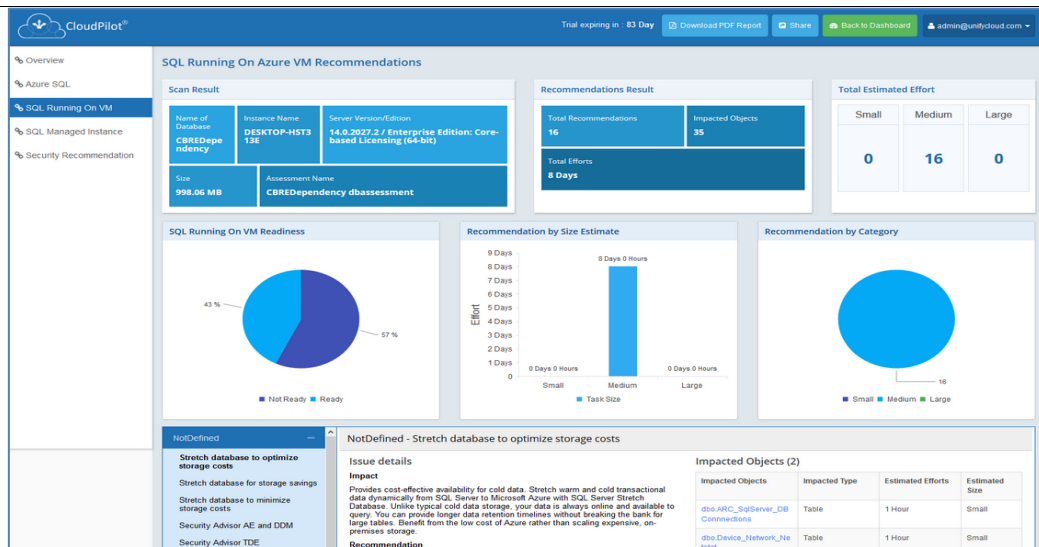


Figure 66 D: Security Recommendation

## SQL Managed Instance

The recommendation report for database SQL Managed Instance that contains recommendation setting for impacted objects, total efforts, and total recommendations also total estimated effort.

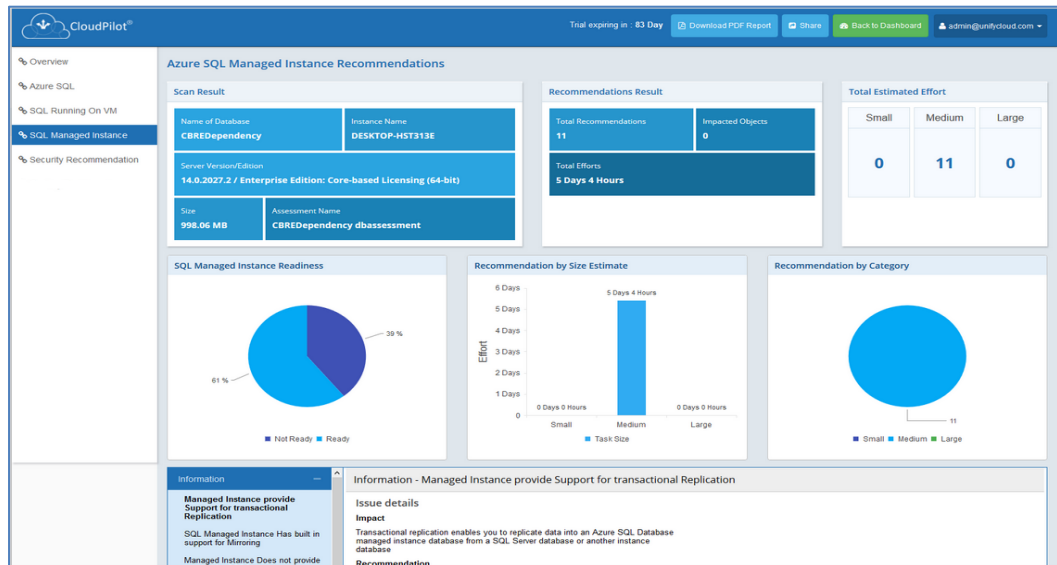
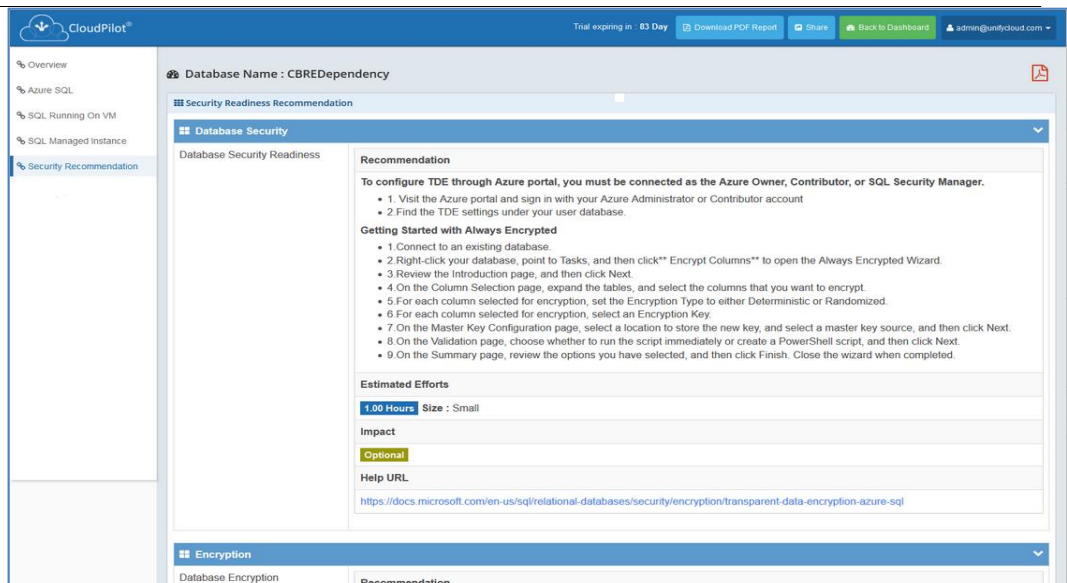


Figure 66 E: Security Recommendation

## Security Recommendation

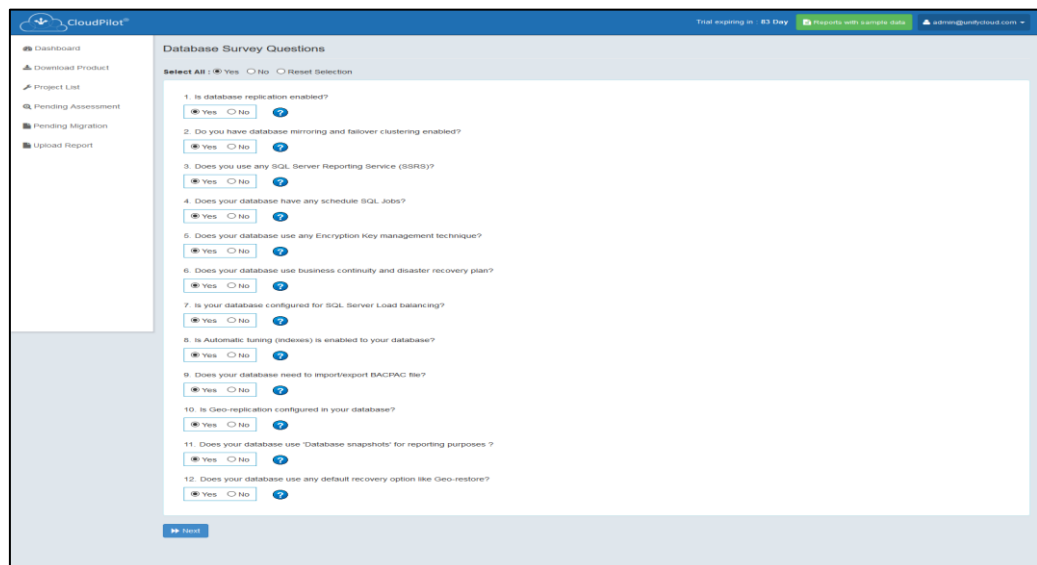
This report shows the list of security-related recommendations for Java application and database security readiness.



**Figure 66 F: Security Recommendation**

## Oracle Database Assessment Report

In first, a list of the questionnaire related to your application appears. Select the specific radio button and click Next as shown in below List of Questionnaire.



**Figure 66 G: Questionnaire**

## Overview Report

This is the overall summary received after the application and database are scanned. It shows the number of files/projects scanned, how many data points were found in the application, the reason for the change, the percentage of changes that are mandatory, optional, and the percentage of files, which are ready to migrate to Azure and file details

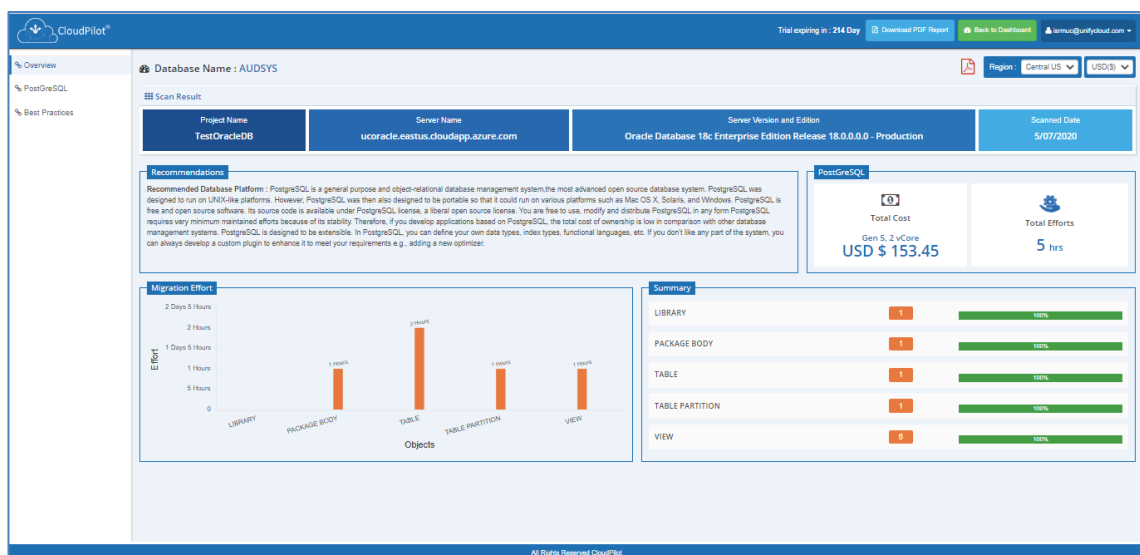


Figure 66 H: Overview Report

## PostgreSQL

The recommendation report for database PostgreSQL contains recommendation setting for impacted objects, total efforts, and total recommendations.

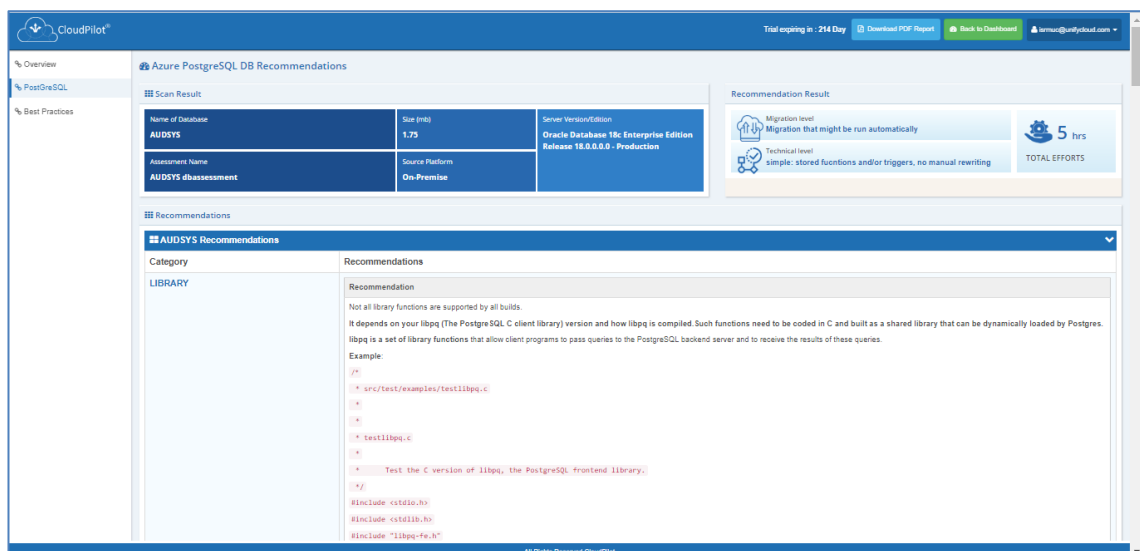
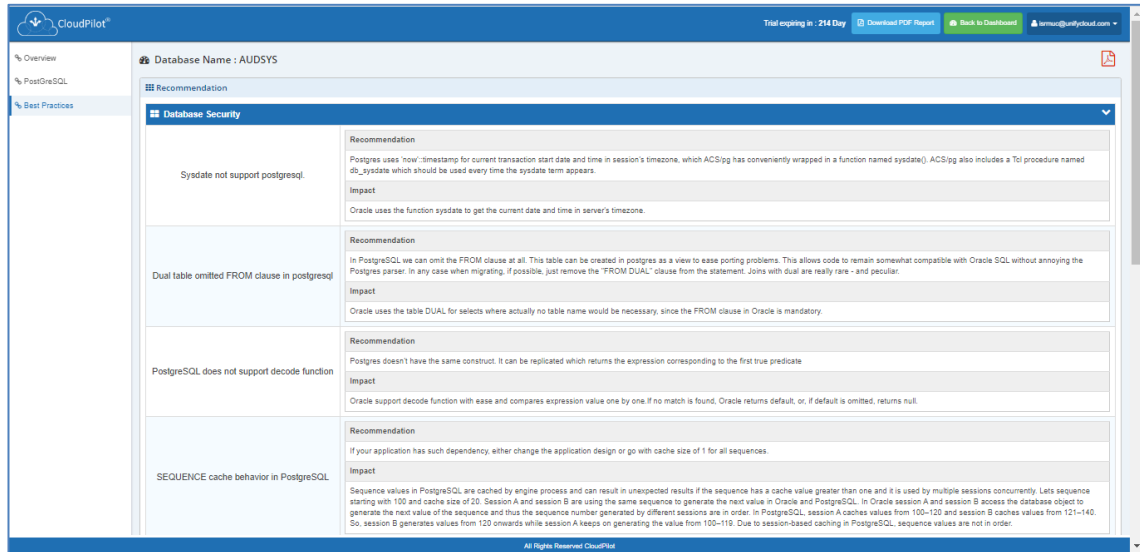


Figure 66 I: PostgreSQL Report

## Best Practices

This report shows the list of security-related recommendations for database security readiness.



Database Name : AUDSYS	
Recommendation	
Sysdate not support postgresql.	<p><b>Recommendation</b></p> <p>Postgres uses 'now' timestamp for current transaction start date and time in session's timezone, which ACS/pg has conveniently wrapped in a function named sysdate(). ACS/pg also includes a Tpl procedure named db_sysdate which should be used every time the sysdate term appears.</p> <p><b>Impact</b></p> <p>Oracle uses the function sysdate to get the current date and time in server's timezone.</p>
Dual table omitted FROM clause in postgresql	<p><b>Recommendation</b></p> <p>In PostgreSQL we can omit the FROM clause at all. This table can be created in postgres as a view to ease porting problems. This allows code to remain somewhat compatible with Oracle SQL without annoying the Postgres parser. In any case when migrating, if possible, just remove the "FROM DUAL" clause from the statement. Joins with dual are really rare - and peculiar.</p> <p><b>Impact</b></p> <p>Oracle uses the table DUAL for selects where actually no table name would be necessary, since the FROM clause in Oracle is mandatory.</p>
PostgreSQL does not support decode function	<p><b>Recommendation</b></p> <p>Postgres doesn't have the same construct. It can be replicated which returns the expression corresponding to the first true predicate</p> <p><b>Impact</b></p> <p>Oracle support decode function with ease and compares expression value one by one. If no match is found, Oracle returns default, or, if default is omitted, returns null.</p>
SEQUENCE cache behavior in PostgreSQL	<p><b>Recommendation</b></p> <p>If your application has such dependency, either change the application design or go with cache size of 1 for all sequences.</p> <p><b>Impact</b></p> <p>Sequence values in PostgreSQL are cached by engine process and can result in unexpected results if the sequence has a cache value greater than one and it is used by multiple sessions concurrently. Lets sequence starting with 100 and cache size of 10. Session A and session B are using the same sequence to generate the next value in Oracle and PostgreSQL. In Oracle session A and session B access the database object to generate the next value of the sequence and thus the sequence number generated by different sessions are in order. In PostgreSQL, session A caches values from 100-120 and session B caches values from 121-140. So, session B generates values from 120 onwards while session A keeps on generating the value from 100-119. Due to session-based caching in PostgreSQL, sequence values are not in order.</p>

**Figure 66 J: Best Practice Security Recommendation**



### 3.6 PowerApps Report and Dashboard

PowerApps Report and Dashboard can be accessed through the CloudPilot portal. Users get access to analytics such as - PowerApps report, number of components, number of code lines, migration complexity, effort hours, and PowerApps Active Score which grades applications on a scale of 0-10.

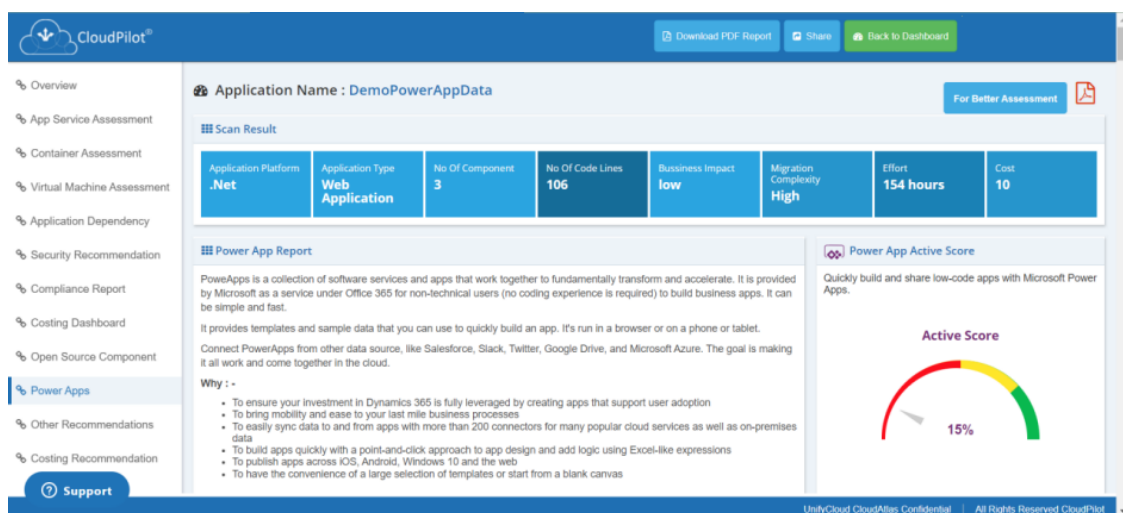


Figure 66 K: PowerApps Report

```
- <PowerAppScanList>
- <PowerAppScanResult>
  <DataPointName>SalesForce</DataPointName>
  <DataPointId>401</DataPointId>
  <SourceCodeList>
    <HardCodeSettings>
      <ProjectName>New folder (9)</ProjectName>
      <ProjectPath>C:\Users\Rachit\Desktop\New folder (9)</ProjectPath>
      <FileName>Site.Master.cs</FileName>
      <FilePath>C:\Users\Rachit\Desktop\New folder (9)\Site.Master.cs</FilePath>
      <HardCodeText>SalesForce</HardCodeText>
      <HardCodeType>SalesForce</HardCodeType>
      <LineNumbers>28</LineNumbers>
      <CodeBlock>SforceServiceCheckouts.InnerText = summary.CheckOuts.ToString();</CodeBlock>
      <IsCompatible>false</IsCompatible>
    </HardCodeSettings>
  </SourceCodeList>
</PowerAppScanResult>
- <PowerAppScanResult>
  <DataPointName>Dynamics 365</DataPointName>
  <DataPointId>402</DataPointId>
  <SourceCodeList>
    <HardCodeSettings>
      <ProjectName>New folder (9)</ProjectName>
      <ProjectPath>C:\Users\Rachit\Desktop\New folder (9)</ProjectPath>
      <FileName>Site.Master.cs</FileName>
      <FilePath>C:\Users\Rachit\Desktop\New folder (9)\Site.Master.cs</FilePath>
      <HardCodeText>Dynamics 365</HardCodeText>
      <HardCodeType>Dynamics 365</HardCodeType>
      <LineNumbers>28</LineNumbers>
      <CodeBlock>CrmServiceClient(var summary = new Service().GetTodayRegistrationSummary());</CodeBlock>
      <IsCompatible>false</IsCompatible>
    </HardCodeSettings>
  </SourceCodeList>
</PowerAppScanResult>
```

Figure 66 L: PowerApps Report (Scanned Datapoints from your Application)

1. PowerApps dashboard has some of the following analytics in overview - cost comparison between PowerApps, PaaS and IaaS, graphical representation of migration complexity, quick wins and code rating based on PowerApps score.

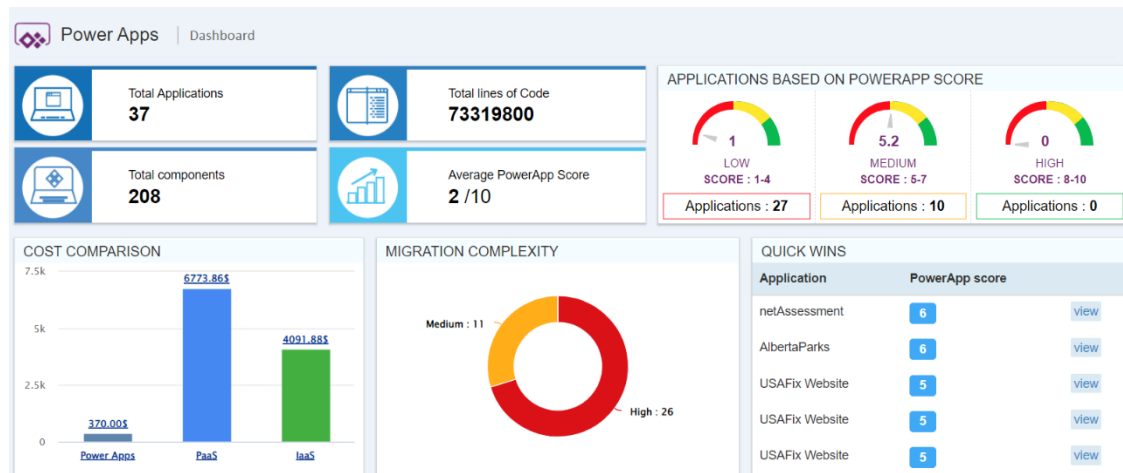


Figure 66 M: PowerApps Dashboard

Dashboard

PowerApps Dashboard

Download Product

Project List

Pending Assessment

Pending Migration

Upload Report

White Uri List

Shared Report

0Power AppsPaaSIaaS

USAFix Website5view

Show10entries

Search:

Project Name	Application Name	Application Platform	Lines of code	No of Component	Power app Score( /10 )	Business Impact	Migration Complexity	Action
AE-Intranet	AEIntranet	.Net	366760	9	4	low	medium	view
All_Apps	AlbertaParks	.Net	620178	12	6	low	medium	view
Assessment	netAssessment	.Net	5622	12	6	high	medium	view
BCIE	Aplicativo Gestion CDB	.Net	31630	6	3	low	high	view
CCIS_New	MyCorporate	.Net	21634718	10	5	low	medium	view
CCIS_New	MyCorporate	.Net	21634718	10	5	low	medium	view
checkingrecomm	recommCheck	.Net	5622	5	2	low	high	view
DemoPowerApp	DemoPowerAppData	.Net	106	3	1	low	high	view
DemoProject	DemoCpApp	.Net	56363	7	3	low	high	view
java26052022	java2605	Java	625	3	1	Low	high	view

Showing 1 to 10 of 37 entries

Previous1234

Figure 66 N: PowerApps Dashboard

### 3.7 Open-Source Component

1. The library used components show recommendations to help resolve security issues. The overview shows details such as number of components, number of securities threats/vulnerabilities and component details.

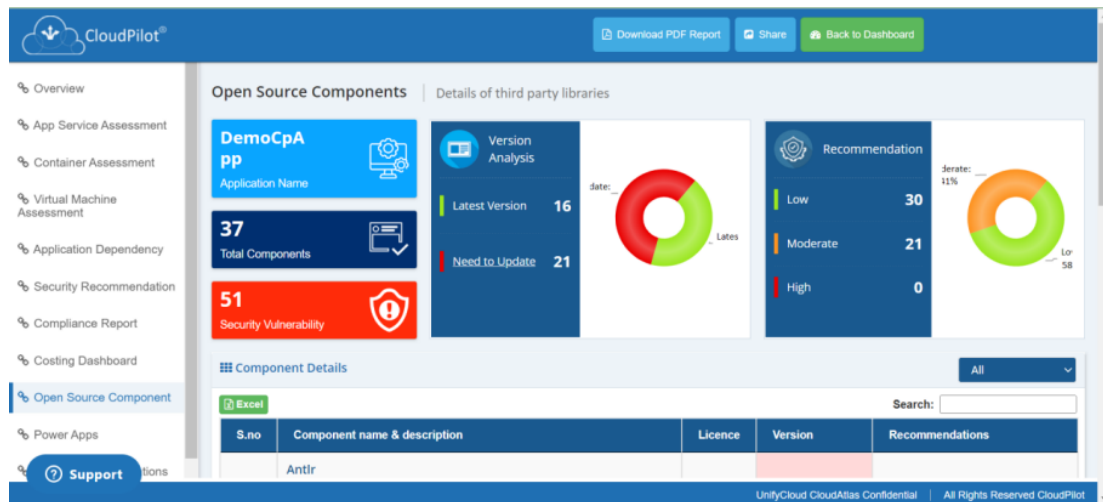


Figure 66 O: Open-Source Components

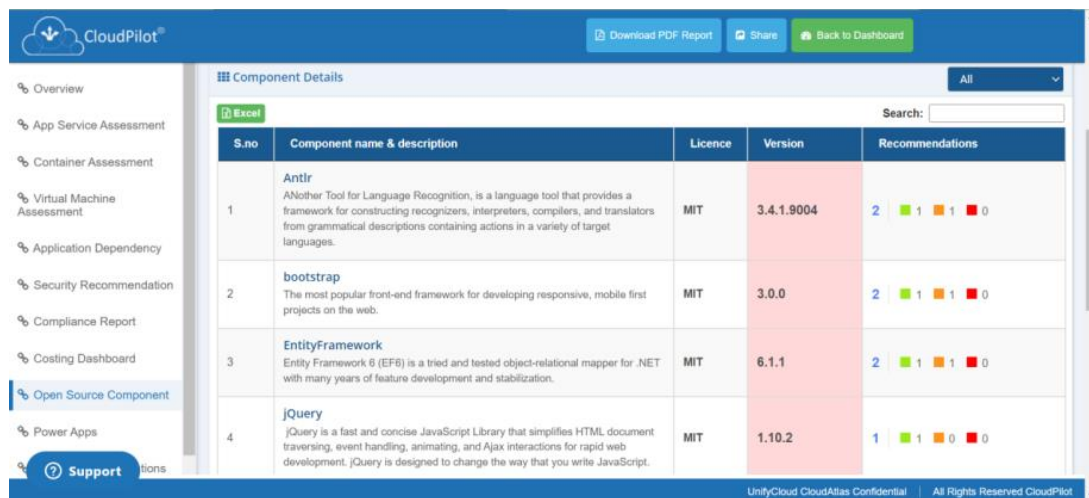
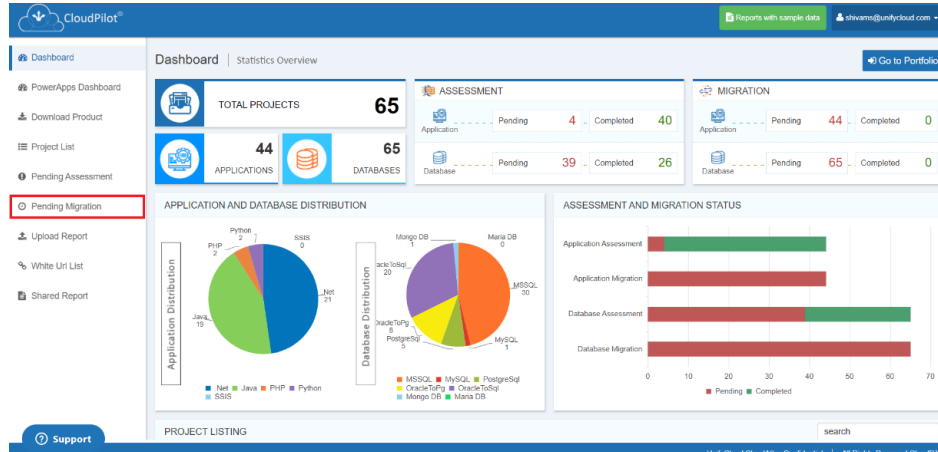


Figure 66 P: Detailed overview of component library

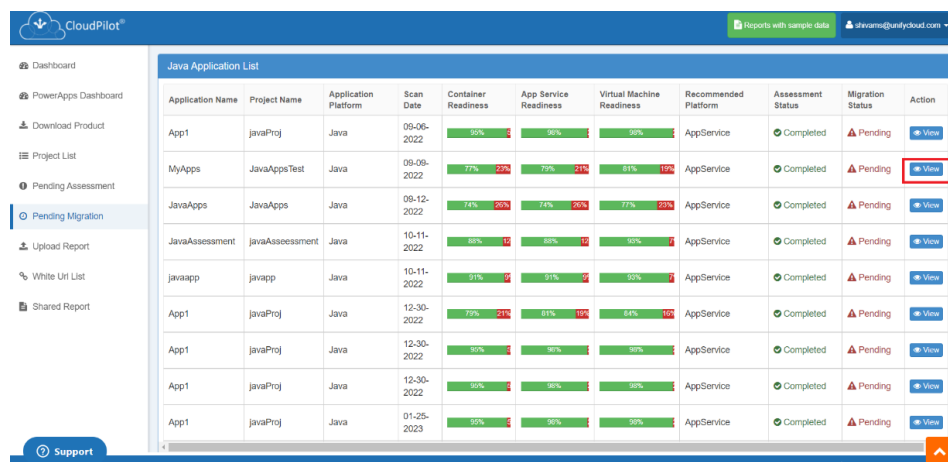
### 3.8 Java Updates

1. On the Dashboard of the CloudPilot portal, click on the “Pending Migration” side-menu, as shown in the figure below.



**Figure 66 Q: CloudPilot Dashboard**

2. On the Pending Migration list, scroll down to the Java Applications list. Click on the “View” button, as shown in the figure below.



Application Name	Project Name	Application Platform	Scan Date	Container Readiness	App Service Readiness	Virtual Machine Readiness	Recommended Platform	Assessment Status	Migration Status	Action
App1	javaProj	Java	09-06-2022	90%	90%	90%	AppService	Completed	Pending	View
MyApps	JavaAppsTest	Java	09-09-2022	77%	75%	81%	AppService	Completed	Pending	View
JavaApps	JavaApps	Java	09-12-2022	74%	74%	77%	AppService	Completed	Pending	View
JavaAssessment	javaAssessment	Java	10-11-2022	88%	88%	90%	AppService	Completed	Pending	View
javaapp	javapp	Java	10-11-2022	91%	91%	90%	AppService	Completed	Pending	View
App1	javaProj	Java	12-30-2022	79%	81%	84%	AppService	Completed	Pending	View
App1	javaProj	Java	12-30-2022	90%	90%	90%	AppService	Completed	Pending	View
App1	javaProj	Java	12-30-2022	90%	90%	90%	AppService	Completed	Pending	View
App1	javaProj	Java	01-25-2023	90%	90%	90%	AppService	Completed	Pending	View

**Figure 66 R: Applications Pending Migration List**

3. In the JavaApps Overview, you can see details such as, Application recommendations, Migration effort, Readiness status, Recommendations results, Azure Infrastructure cost, Code lines and other Application assessment details.

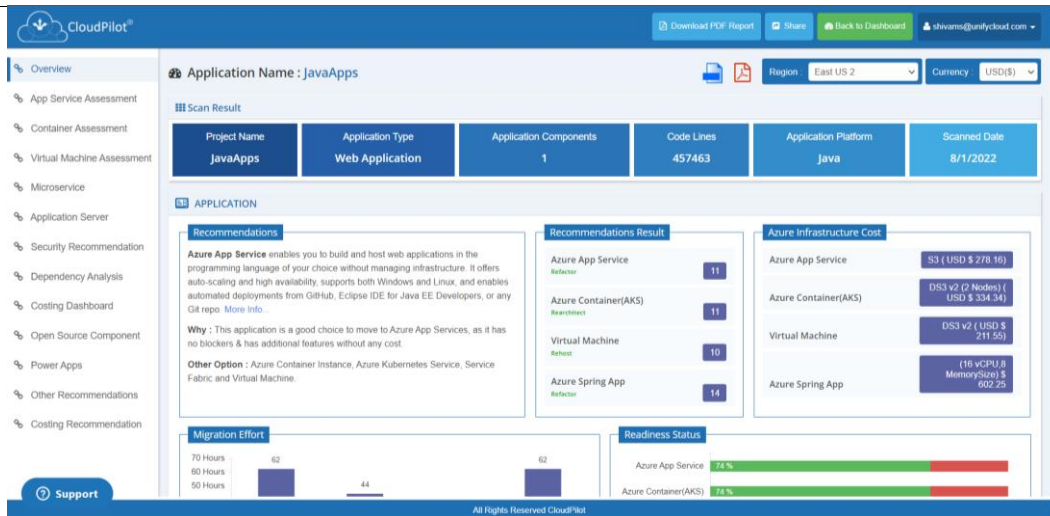


Figure 66 S: Java Apps Assessment Overview

### 3.8.1 Java Microservice

Java Microservice is a software architecture pattern that structures an application as a collection of small, independent services, each running its own process and communicating with lightweight mechanisms, often an HTTP resource API. The goal of this architecture is to achieve greater scalability, resilience, and deployment flexibility compared to a monolithic architecture.

The Microservice scorecard provides a systematic assessment of various aspects of the microservice architecture, including reliability, scalability, security, maintainability, and overall design, as shown in Figure 5: Java Apps Microservice.

1. Click on the "Microservice" section of the left side-menu to access this feature, as shown in the figure below.

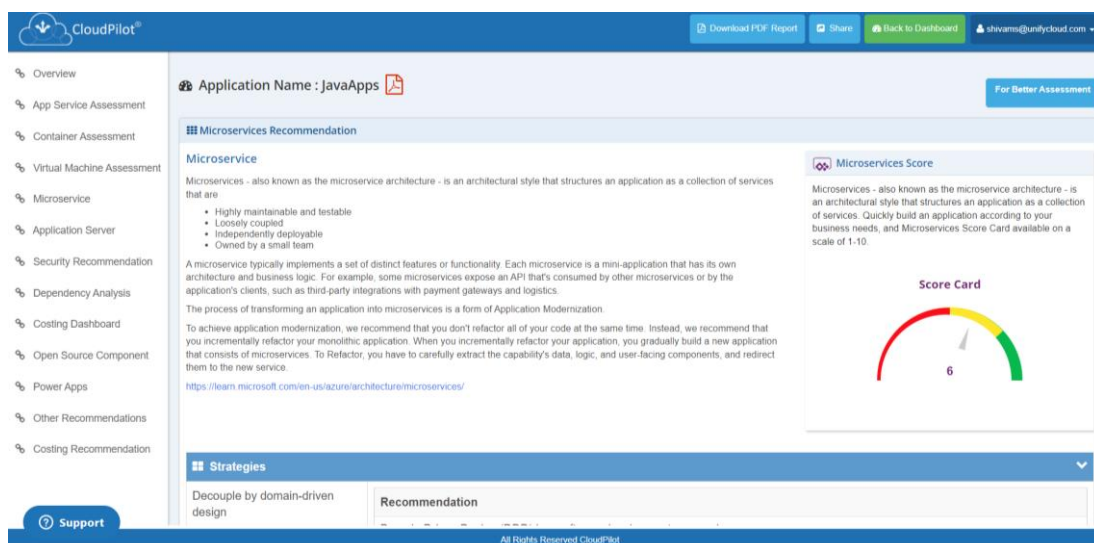
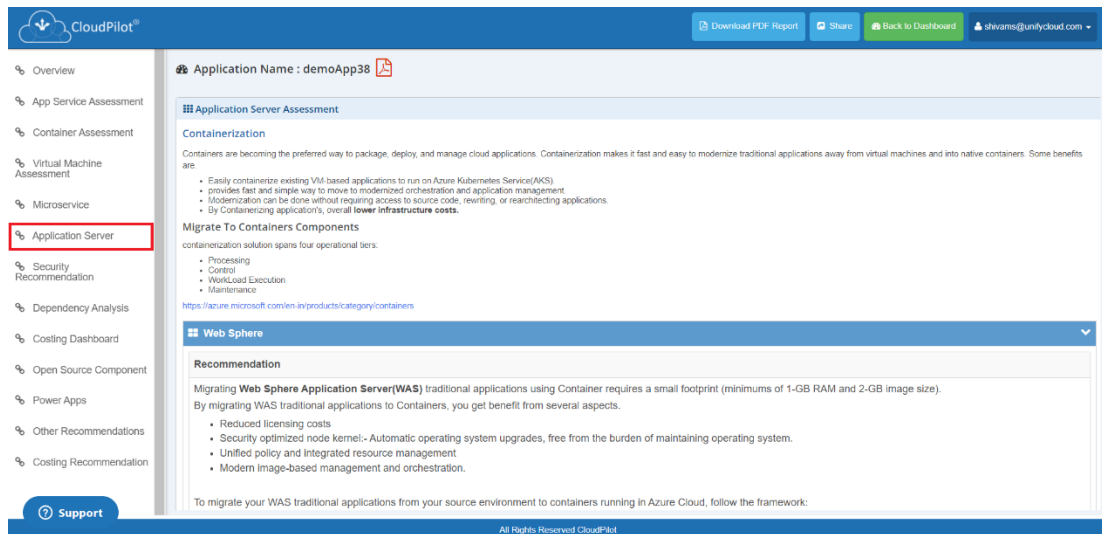


Figure 66 T: Java Apps Microservice

### 3.8.2 Application Server

1. Under the "Application Server" side-menu, you can access the Java Apps Application Server Assessment details, as shown in the figure below.



**Figure 66 U: Java Apps Application Server**

2. The application server section contains a questionnaire. These set of questions are used to assess the suitability and capabilities of a particular application server for a specific use case or project.

Application Survey Questions

Select All : ☐ Yes ☐ No ☐ Reset Selection For better Assessment Report [Click Here](#)

1. Does your application use automatic backup mechanism?  
☐ Yes ☒ No ?
2. Does your application have some firewall configuration settings?  
☐ Yes ☒ No ?
3. Does your application have some secure socket layer(SSL) related settings?  
☐ Yes ☒ No ?
4. Does your application have a program like exe or script file which needs to be scheduled for running at a specific time of day?  
☐ Yes ☒ No ?
5. Does your application use PII information?  
☐ Yes ☒ No ?
6. Does your application depend on any application server like as(Websphere,weblogic and jboss etc.)  
☒ Yes ☐ No Web Sphere ?
7. Do you need g... depending upon geographic regions of endpoints?  
☐ Yes ☒ No

**Figure 66 V: Application Survey Questions**

### 3.9 Five R Analysis

The goal of Five R Analysis in a cloud environment is to maximize the benefits of cloud and minimizing costs to improve resource utilization. Under the left side-menu, click on “Five R Analysis” to access this feature.

**Rehost:** This is the simplest migration strategy, where the application is moved to a new environment without making any changes to the code or architecture.

**Refactor:** This involves making changes to the code or architecture to optimize it for the new environment, while retaining the existing functionality of the application.

**Rebuild:** This strategy involves completely rebuilding the application from scratch, taking advantage of new technology and architecture patterns.

**Replace:** This involves replacing the existing application with a different solution that provides equivalent functionality.

**Retire:** This strategy involves retiring the application, either because it is no longer needed or because it has been replaced by a different solution.

1. Click on the “Five R Analysis” tab on the left side-menu of the Portfolio Dashboard to access this feature.

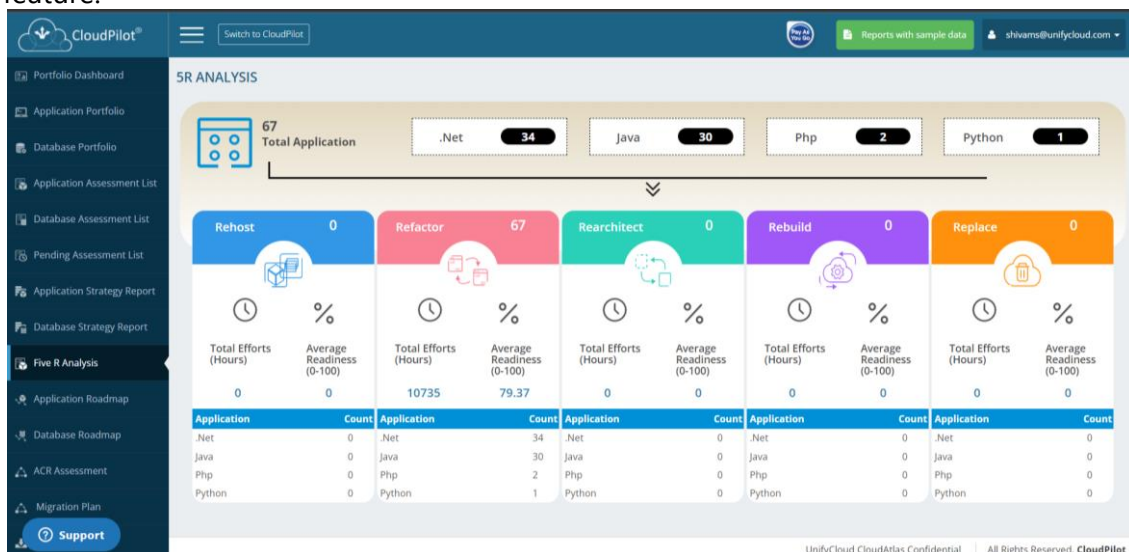



Figure 66 W: Five R's Analysis



## 4.Cloud migration using CloudPilot®

### 4.1 Application Migration to Azure

Follow the steps below to migrate your application to Azure using **CloudPilot®** tool:

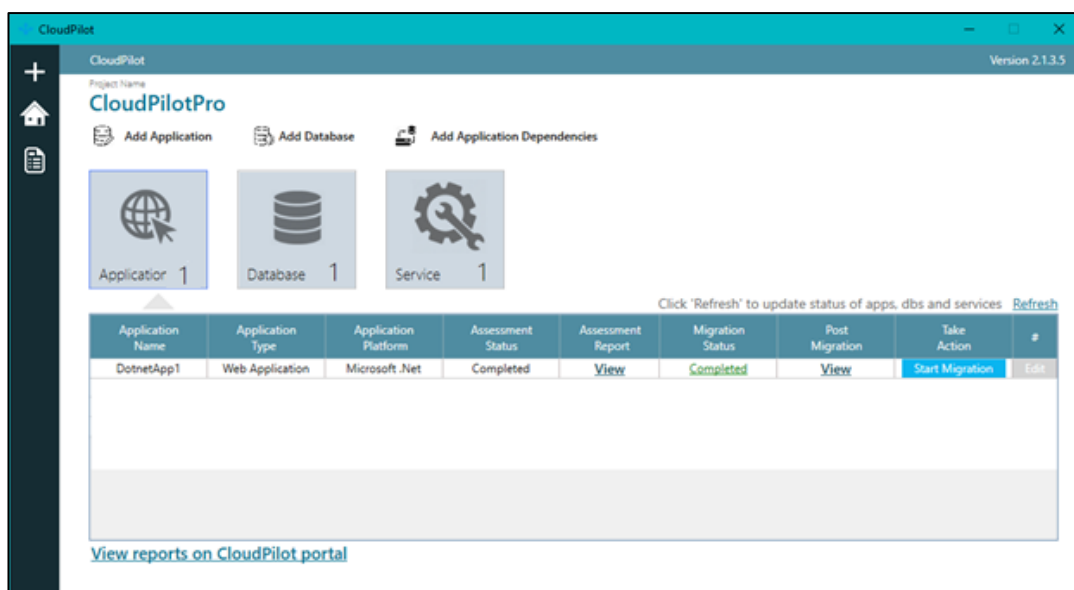
**NOTE:** At any time during the migration if you need to know about any text boxes or option button just hover over **Help** button .

**NOTE:** At any time during the migration if you need to make any changes in your previous windows, click **Back** if applicable.

**NOTE:** Fields marked with \* are mandatory and needs to be filled or selected as per choice.

- Once the assessment report is generated, click **Start Migration** to migrate the application to Azure as shown in [Figure 67: Application Migration](#).

**IMPORTANT:** You to need to click [Refresh](#) button after data analysis to update the *assessment status* and to make the **Start Migration** button active.



**Figure 67: Application Migration**



### 4.1.1 Migration Option

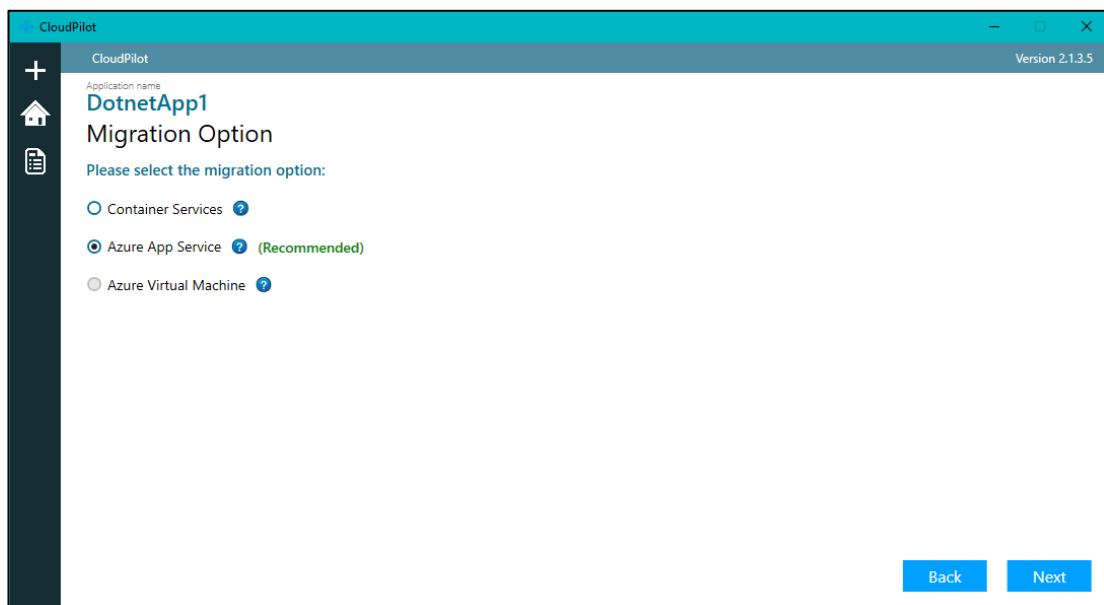
There are three services of application migration:

1. Azure App Service
2. Container Services
3. Azure Virtual Machine

#### 4.1.1.1 Azure App Service

1. Select the specific radio button for migration option and click **Next** as shown in [Figure 68: Migration Option](#).

**NOTE:** As per the Assessment report generated earlier, we **recommended** Azure App Service the best Azure service to migrate your application.



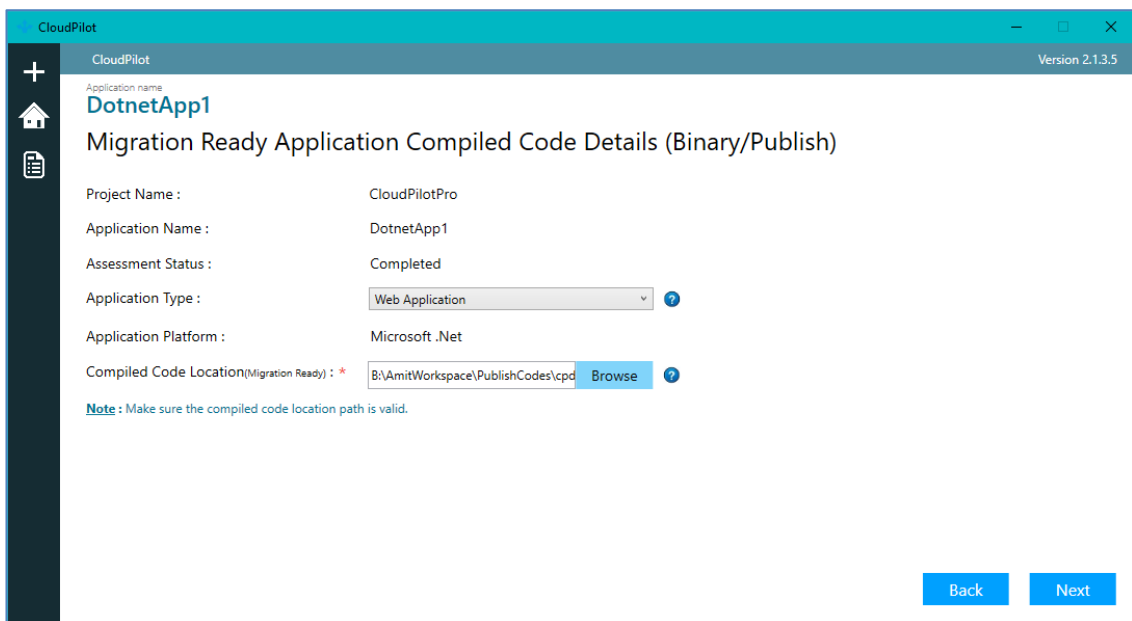
**Figure 68: Migration Option – Azure App Service**

## Azure App Service Migration Option

1. Select the specific radio button for Azure App Service Migration Option.
2. Click **Next**.

You will be redirected to the Migration Ready Application Compiled Code Details window, where the project name, application platform and other details need to be confirmed as shown in [Figure 69 : Migration Ready Application – Compiled Code](#).

**NOTE:** Select **Browse** to change Compile Code Location, if required as shown in [Figure 71: Migration Ready Application – Compiled Code](#)



CloudPilot

Application name  
**DotnetApp1**

Migration Ready Application Compiled Code Details (Binary/Publish)

Project Name : CloudPilotPro

Application Name : DotnetApp1

Assessment Status : Completed

Application Type : Web Application

Application Platform : Microsoft .Net

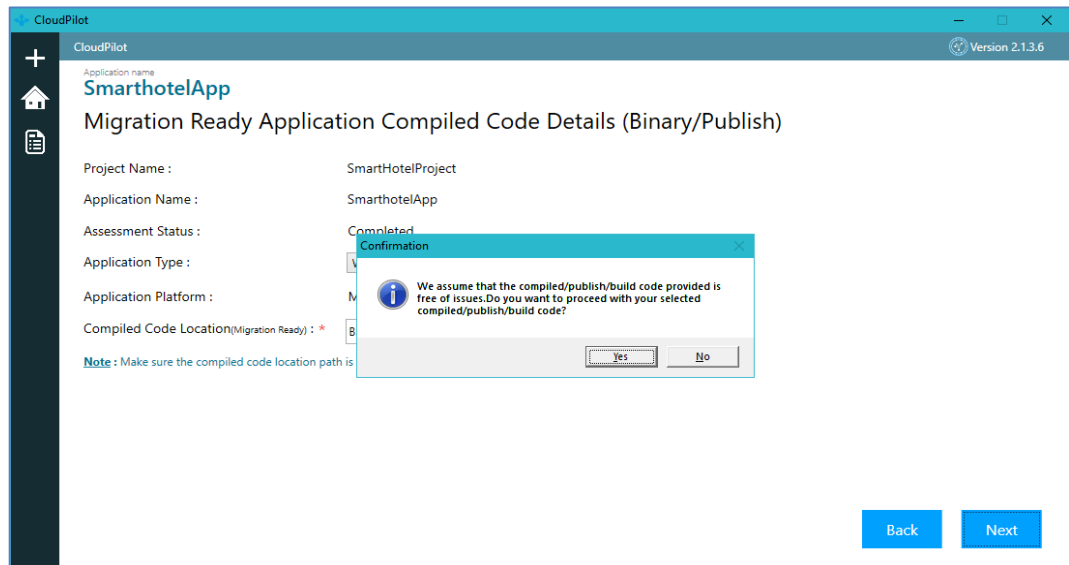
Compiled Code Location(Migration Ready) : \* B:\AmitWorkspace\PublishCodes\cpd **Browse**

**Note :** Make sure the compiled code location path is valid.

**Back** **Next**

**Figure 69: Migration Ready Application – Compiled Code**

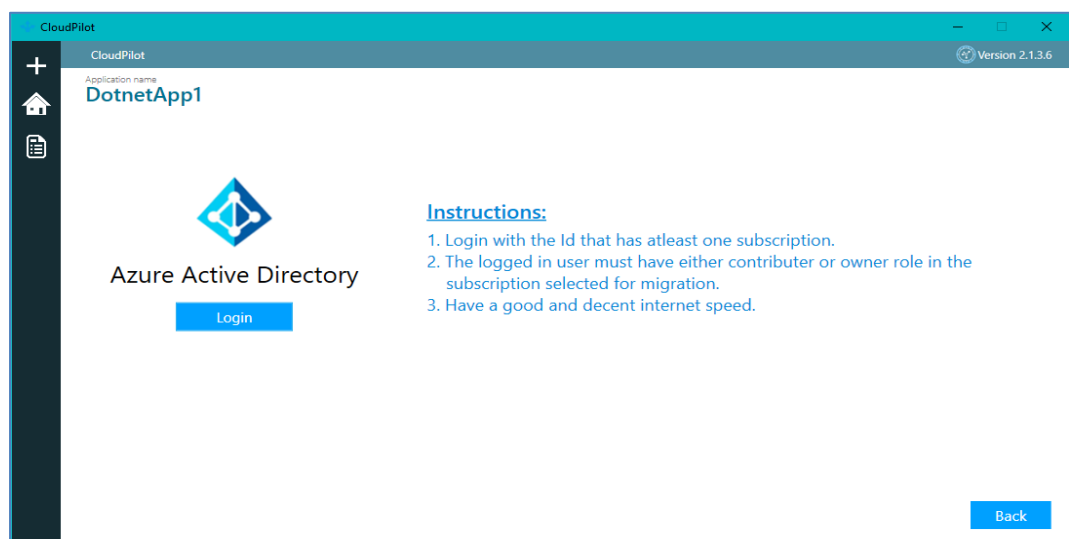
3. A message box will be prompted and click **Yes** to proceed.



**Figure 70: Migration Ready Application – Compiled Code**

## Login Details with Active Directory

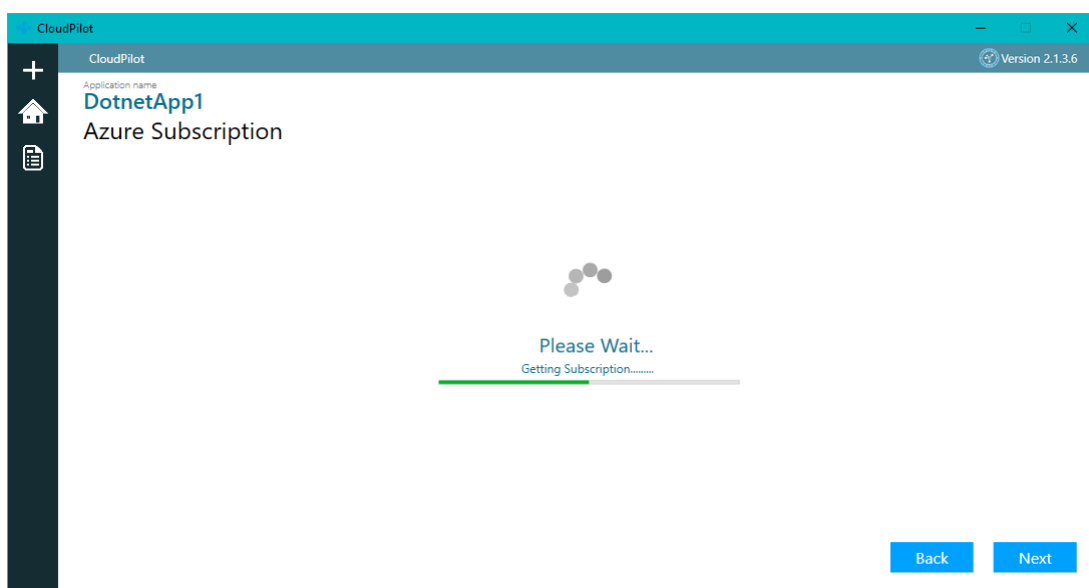
You can sign in with your Active Directory and you will redirect to [Figure 71 : Azure AD \(Active Directory\) Login](#).



**Figure 71: Azure AD Login**

## Azure Subscription

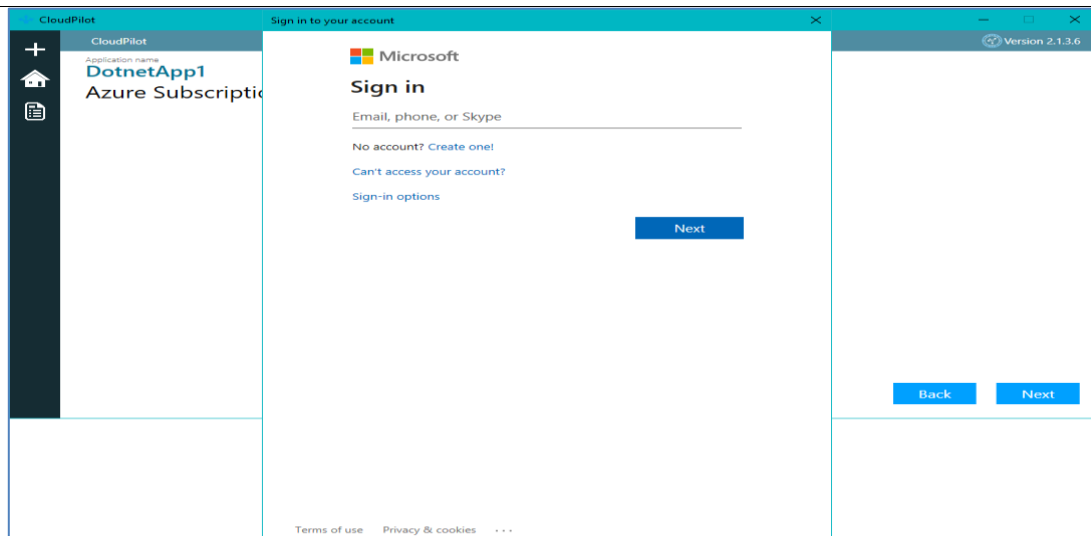
A window displays "Getting Subscription" as shown in [Figure 72: Azure Subscription- In progress](#)



**Figure 72: Azure Subscription- In progress**

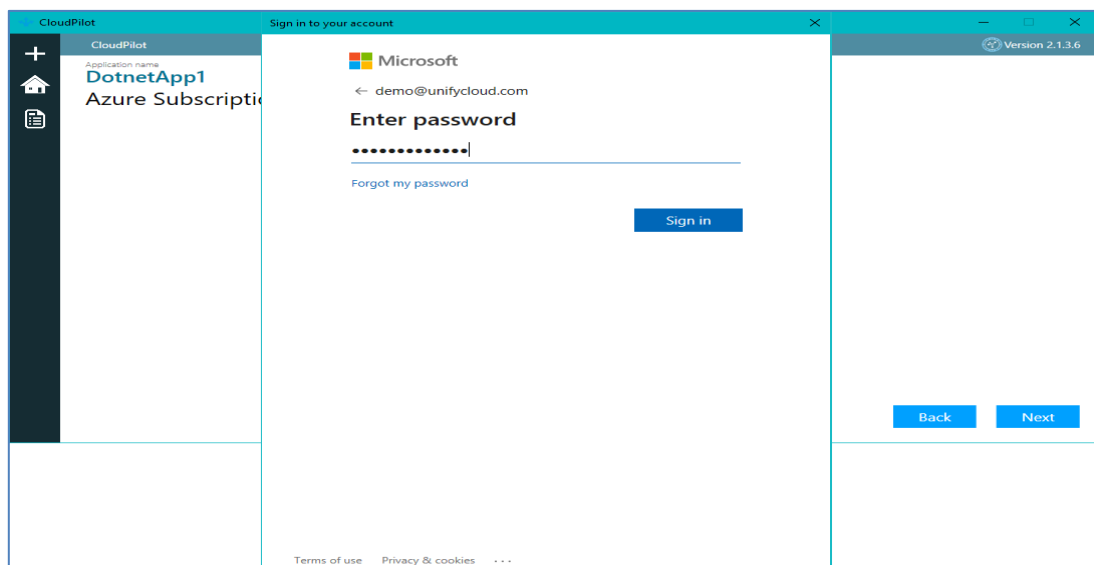
1. Enter your credentials to login to your Microsoft Azure account as shown in [Figure 73: Microsoft Azure - Log in Page](#).

**NOTE:** If you don't have a Microsoft account then you need to create one.



**Figure 73: Microsoft Azure - Log in Page**

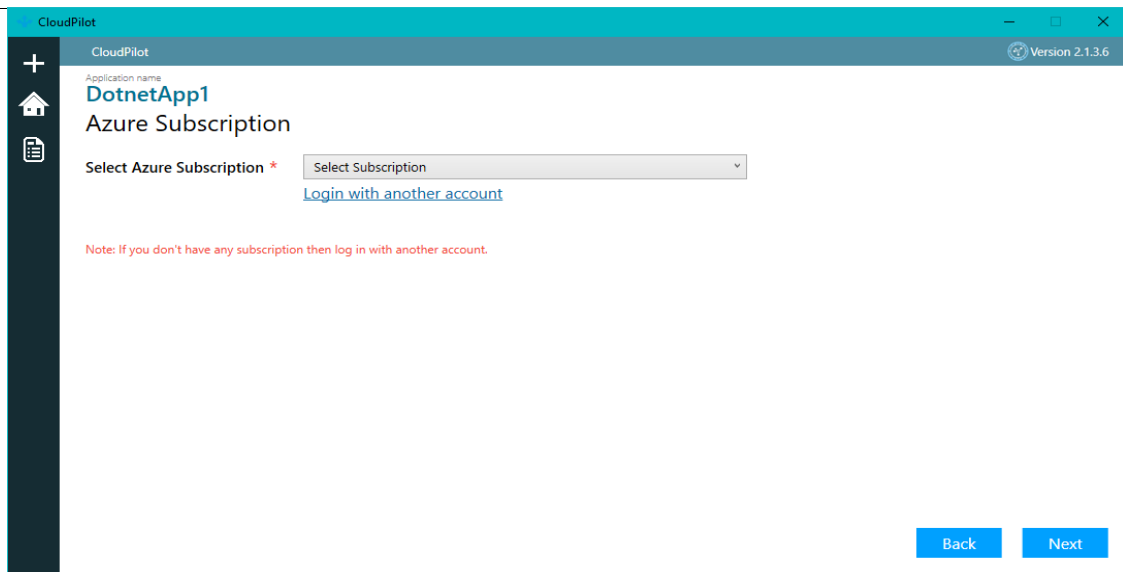
- Log in with your credentials and click **Sign In** as shown in [Figure 74: Microsoft Azure Log In Details](#).



**Figure 74: Microsoft Azure Log in Details**

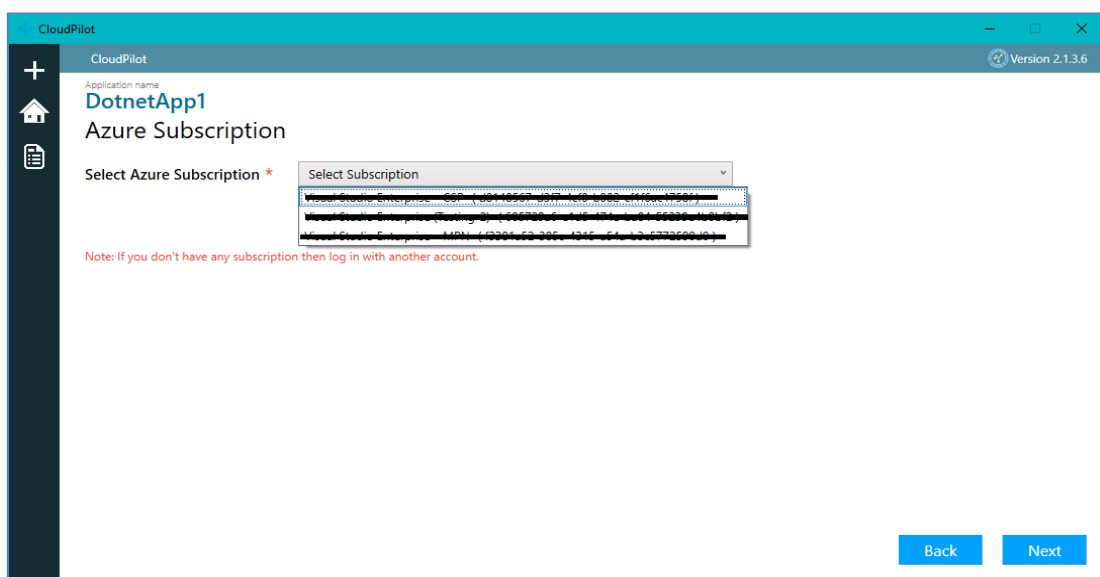
- Select the Azure Subscription as per your account as shown in [Figure 75: Azure Subscriptions](#).

**NOTE:** If you don't have any subscription try with another account.



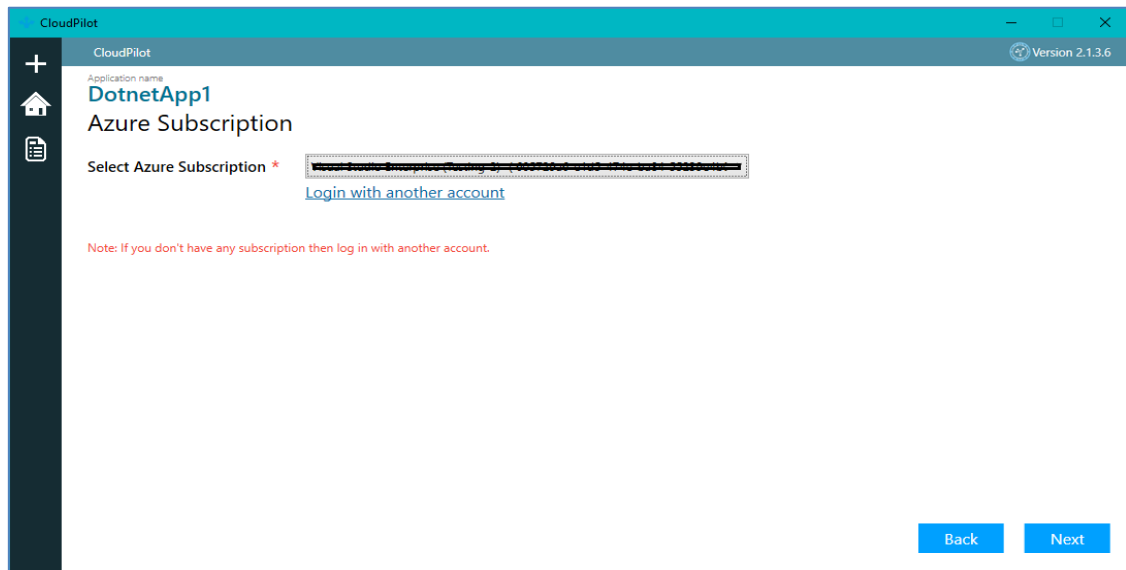
**Figure 75: Azure Subscriptions**

4. Select the Visual Studio Enterprise - MPN as per the dropdown list as shown in [Figure 76: Azure Subscription List](#).



**Figure 76: Azure Subscription List**

5. Select the Visual Studio Enterprise – MPN and click **Next** as shown in [Figure 77: Select Azure Subscription](#).

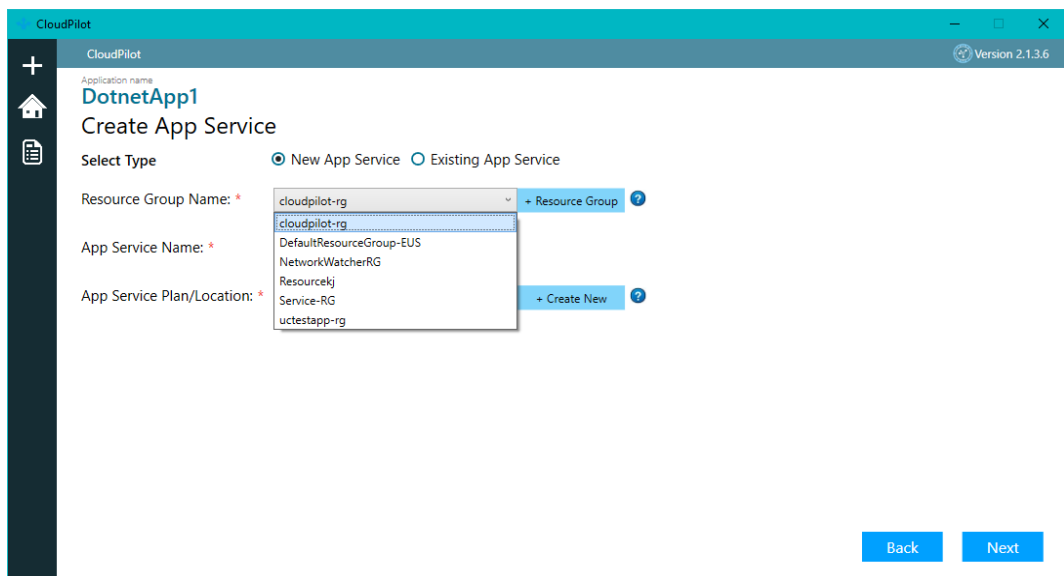


**Figure 77: Select Azure Subscription**

## App Service Deployment

1. Select the Resource Group from the dropdown list as shown in [Figure 78: Resource Group List](#).

**NOTE:** Resource group are created as per your Azure subscription plans.



CloudPilot Version 2.1.3.6

Application name: **DotnetApp1**

### Create App Service

Select Type: ☒ New App Service ☐ Existing App Service

Resource Group Name: \* cloudpilot-rg + Resource Group ?

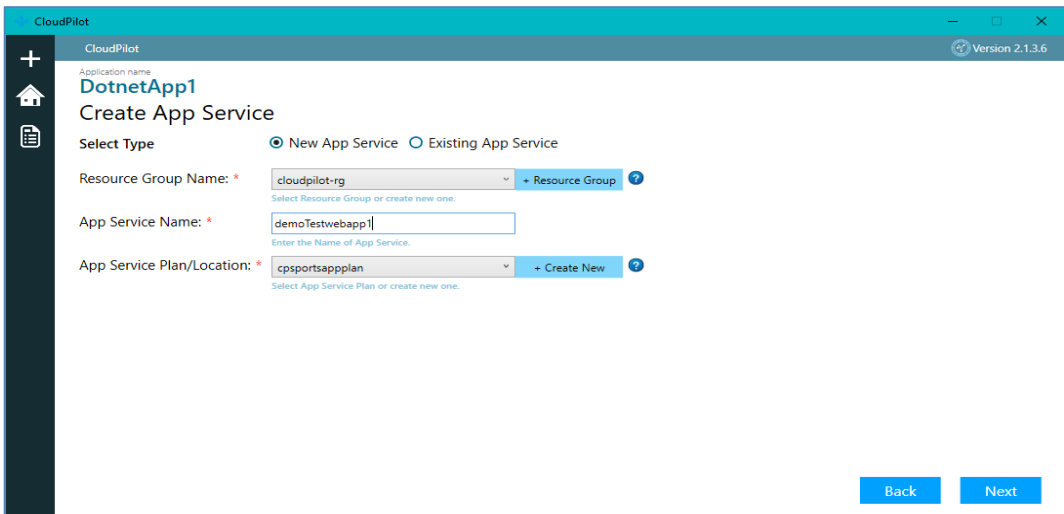
App Service Name: \*

App Service Plan/Location: \* + Create New ?

Back Next

**Figure 78: Resource Group List**

2. Enter the App Service name in [Figure 79 : App Service Name](#).



CloudPilot Version 2.1.3.6

Application name: **DotnetApp1**

### Create App Service

Select Type: ☒ New App Service ☐ Existing App Service

Resource Group Name: \* cloudpilot-rg + Resource Group ?

App Service Name: \* demoTestwebapp1

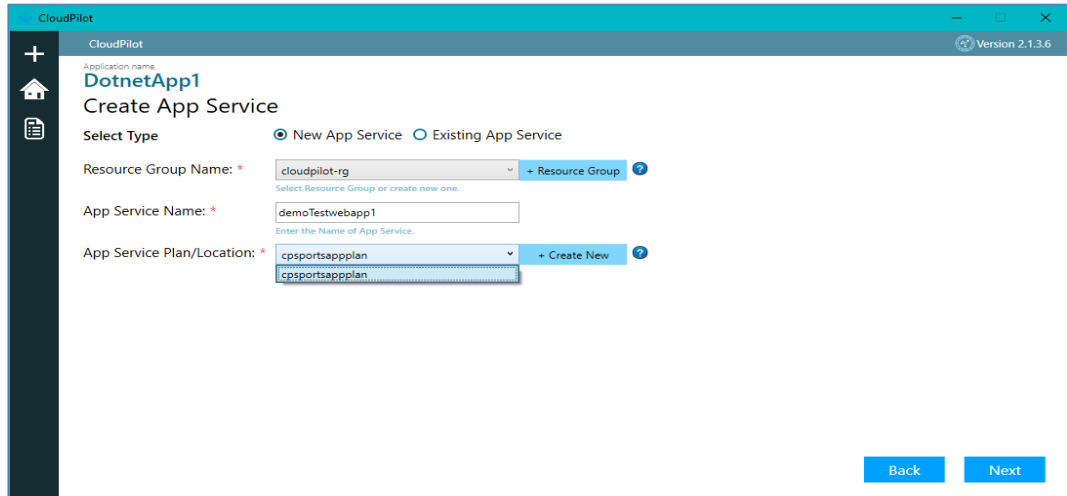
App Service Plan/Location: \* cpsportsappplan + Create New ?

Back Next

**Figure 79: App Service Name**

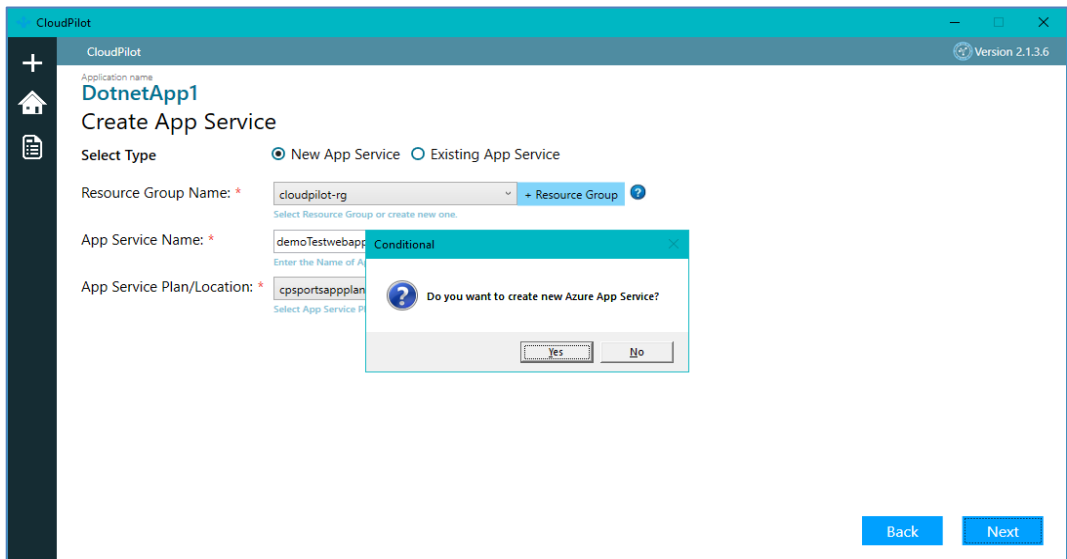


3. Select App Service Plan/Location from the dropdown list. If you want to create a new App Service Plan, click on **+ Create New** as shown in [Figure 80: App Service Plan](#).



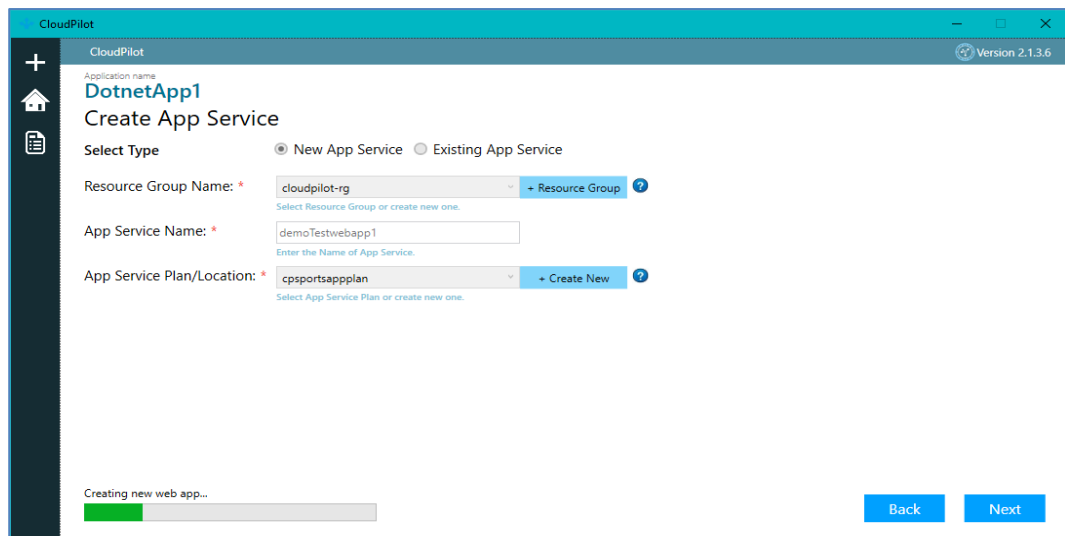
**Figure 80: App Service Plan/Location**

4. Once complete, click **Next**. A message box will appear asking for the confirmation. Click **Yes** as shown in [Figure 81: Conditional](#).



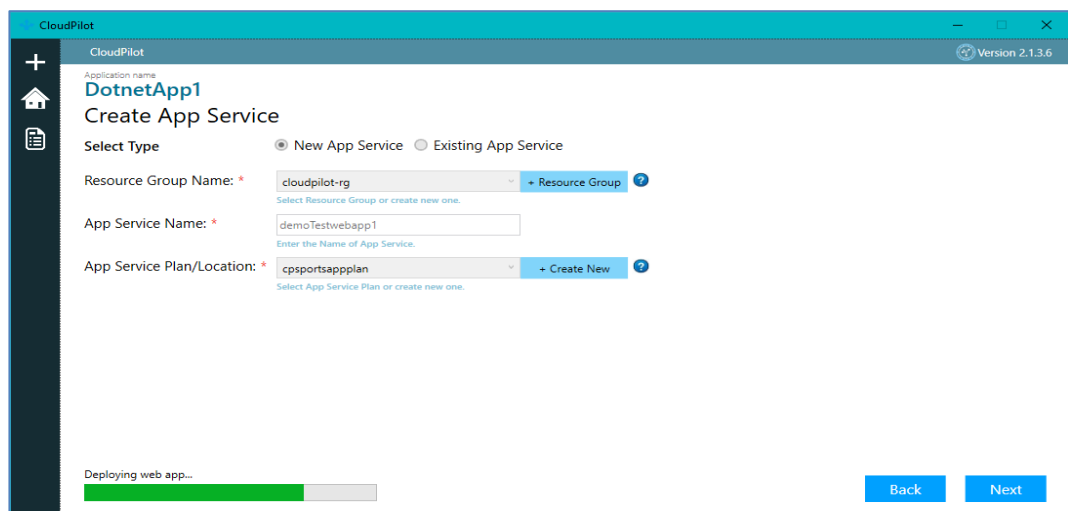
**Figure 81: Conditional**

"Creation of New Azure App Service" is in progress as shown in [Figure 81: New Azure App Service - In Progress](#).



The screenshot shows the 'Create App Service' interface in CloudPilot. The application name is 'DotnetApp1'. Under 'Select Type', 'New App Service' is selected. The 'Resource Group Name' is 'cloudpilot-rg' with a '+ Resource Group' button. The 'App Service Name' is 'demoTestwebapp1' with an 'Enter the Name of App Service' prompt. The 'App Service Plan/Location' is 'cpsportsappplan' with a '+ Create New' button. At the bottom, a progress bar indicates 'Creating new web app...' is in progress, with a green bar showing approximately 25% completion. 'Back' and 'Next' buttons are at the bottom right.

**Figure 81: Creating New Web App - In Progress**



This screenshot is identical to the previous one, showing the 'Create App Service' interface. However, the progress bar at the bottom now indicates 'Deploying web app...' is in progress, with a green bar showing approximately 75% completion. The 'Back' and 'Next' buttons remain at the bottom right.

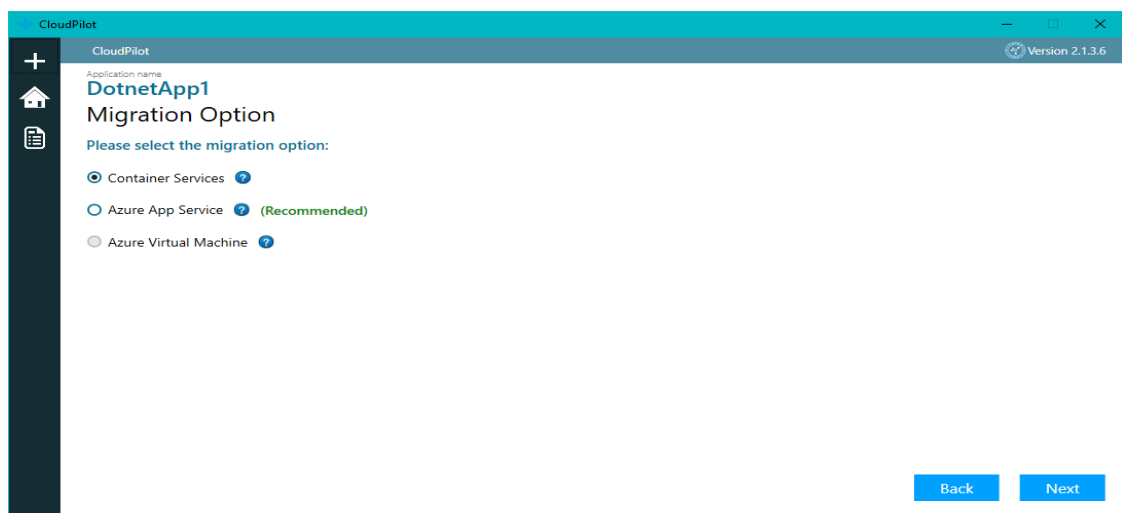
**Figure 81 A: Deploying application to New Web App - In**

**Progress**

#### 4.1.1.2 Container Services

1. Select the specific radio button for migration option and click **Next** as shown in [Figure 82: Migration Option](#).

**NOTE:** As per the Assessment report generated earlier, we **recommended** container services the best Azure service to migrate your application.

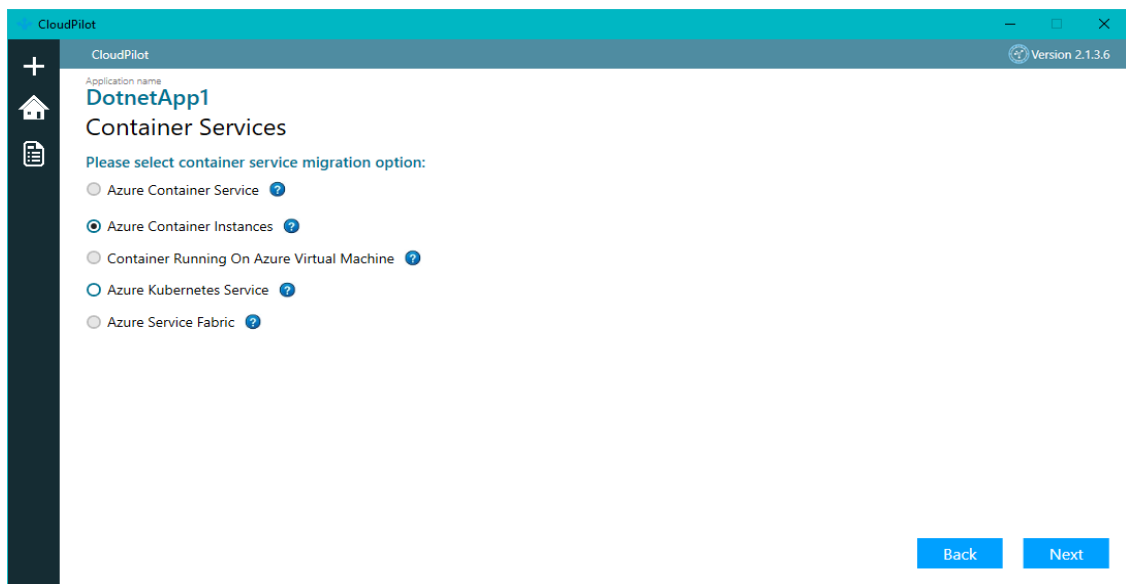


**Figure 82: Migration Option – Container Services**

#### Container Service Migration Option

1. Select the specific radio button for Container Service Migration Option.
2. Select **Azure Container Instances radio** button.

3. Click **Next** as shown in [Figure 83: Container Service Migration - Azure Container](#).



**Figure 83: Container Service Migration - Azure Container Instances**

Follow the steps after this till selection of subscription list.

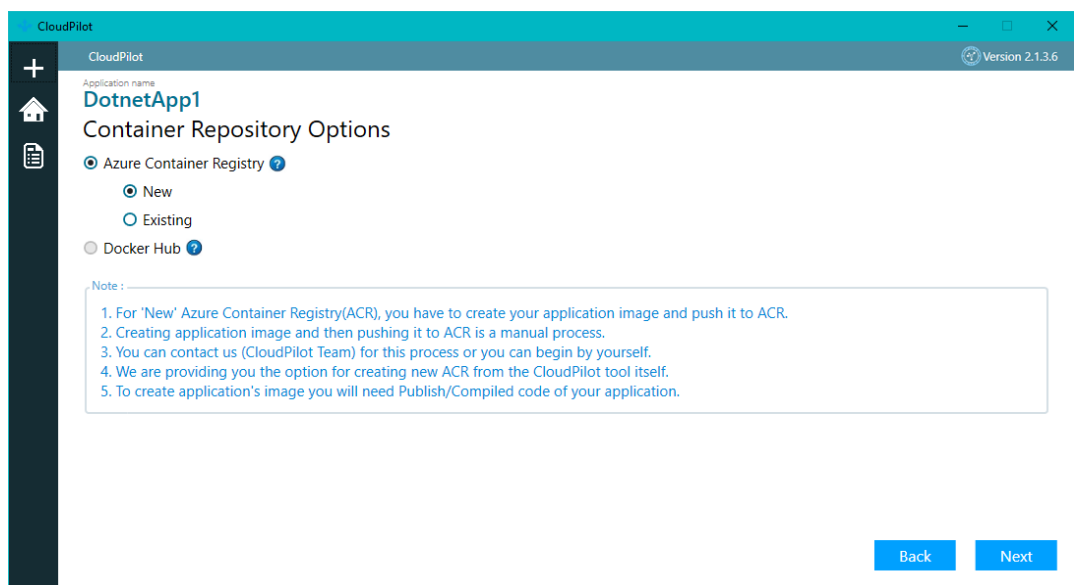
### Container Registry Options

1. Select the specific radio button for Container Repository Options as shown in [Figure 84: Container Registry Options](#).

**NOTE:** If you have an existing **Docker hub** account, you can choose Docker hub option.

## Azure Container Registry – New Account

1. For New account of Azure Container Registry, select the **new** radio button and click **Next** as shown in [Figure 84: Container Registry Options](#).



**Figure 84: Container Registry Options**

2. Carefully read the note and then Click **Next**.
3. Select the Resource Group from the dropdown list as shown in [Figure 85: Resource Group List](#).

**NOTE:** Resource group are created as per your Azure subscription plans.

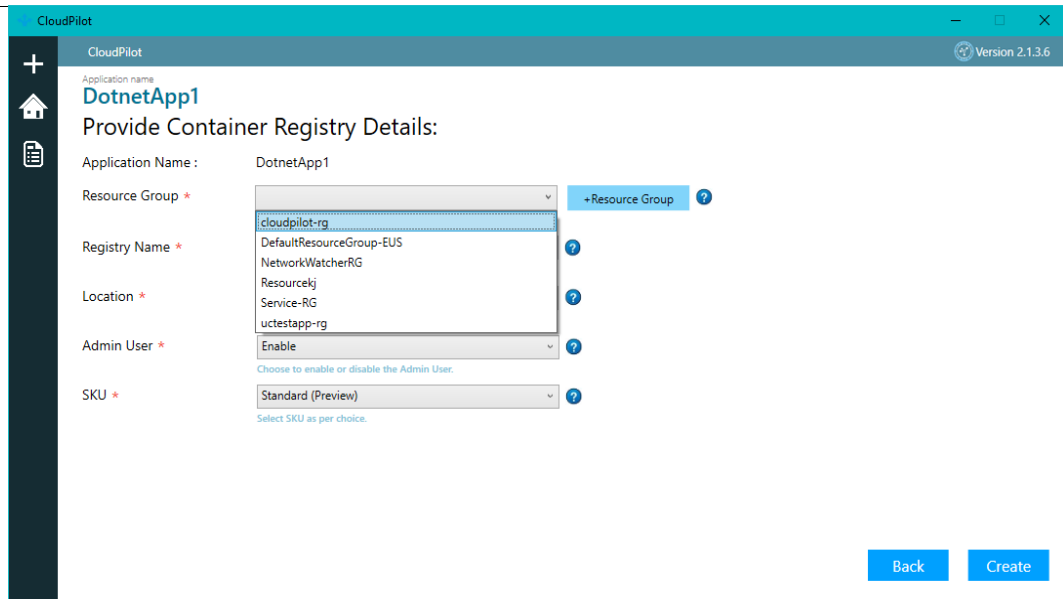


Figure 85: Resource Group List

4. Enter the Registry name and select the Location from the dropdown list as shown in [Figure 86: Location List](#).

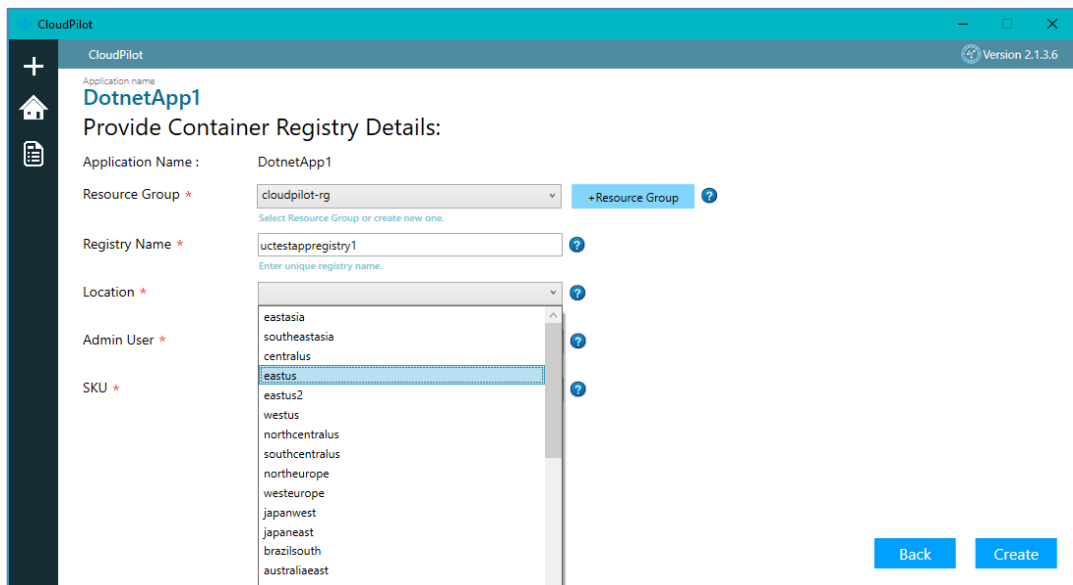
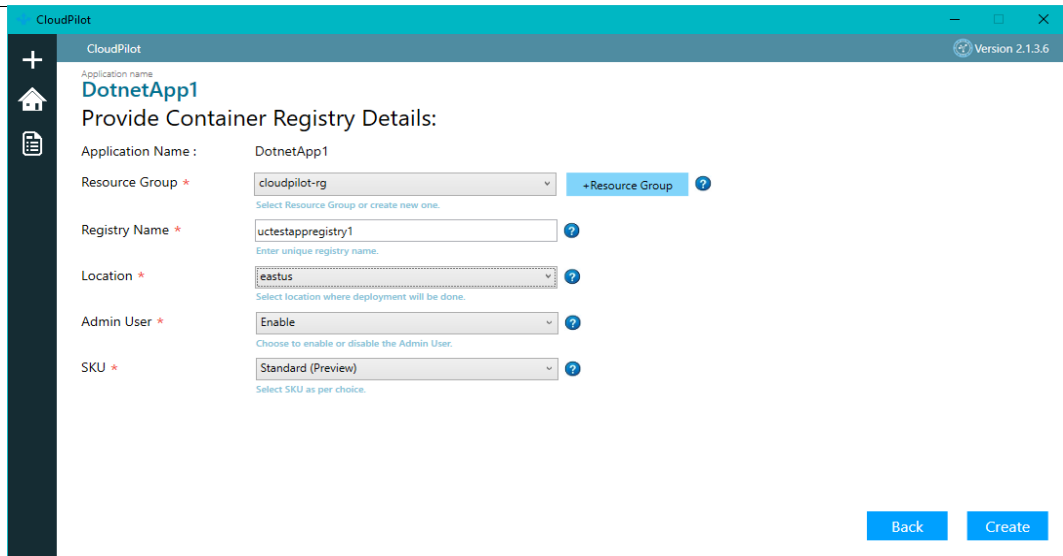


Figure 86: Location List

5. Select enable (**by Default**) to enable the Admin User and select SKU from the dropdown list as shown in [Figure 87: Container Registry Details Added](#).



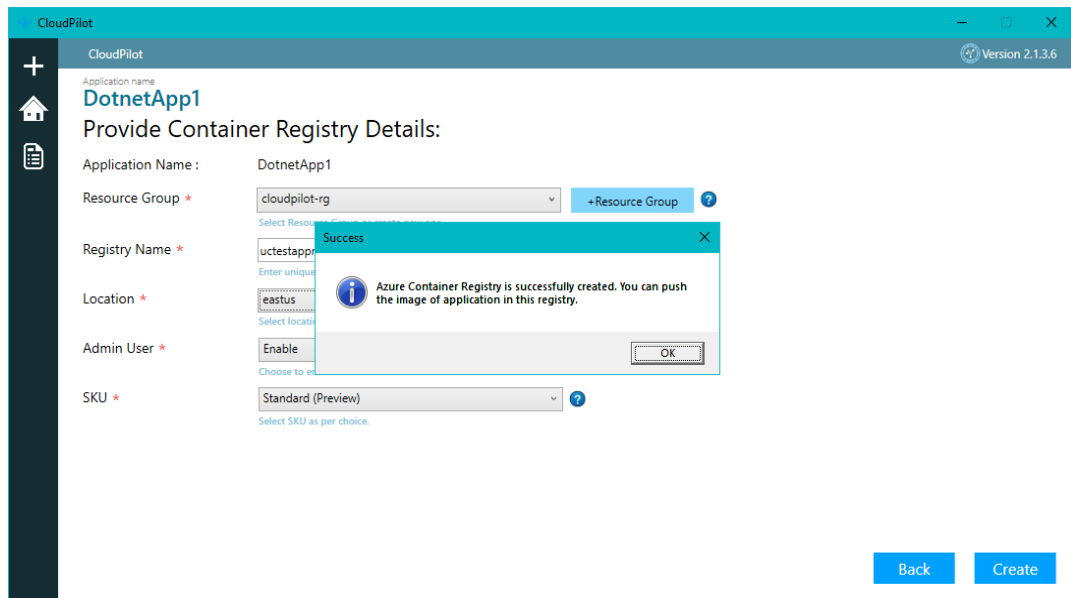
The screenshot shows the 'CloudPilot' application window with the title bar 'CloudPilot' and 'Version 2.1.3.6'. The left sidebar contains a plus icon, a home icon, and a document icon. The main content area is titled 'Provide Container Registry Details:' and shows the following fields:

- Application name:** DotnetApp1
- Application Name:** DotnetApp1
- Resource Group:** cloudpilot-rg (with a '+Resource Group' button and a help icon). Subtext: 'Select Resource Group or create new one.'
- Registry Name:** uctestappregistry1 (with a help icon). Subtext: 'Enter unique registry name.'
- Location:** eastus (with a help icon). Subtext: 'Select location where deployment will be done.'
- Admin User:** Enable (with a help icon). Subtext: 'Choose to enable or disable the Admin User.'
- SKU:** Standard (Preview) (with a help icon). Subtext: 'Select SKU as per choice.'

At the bottom right, there are 'Back' and 'Create' buttons.

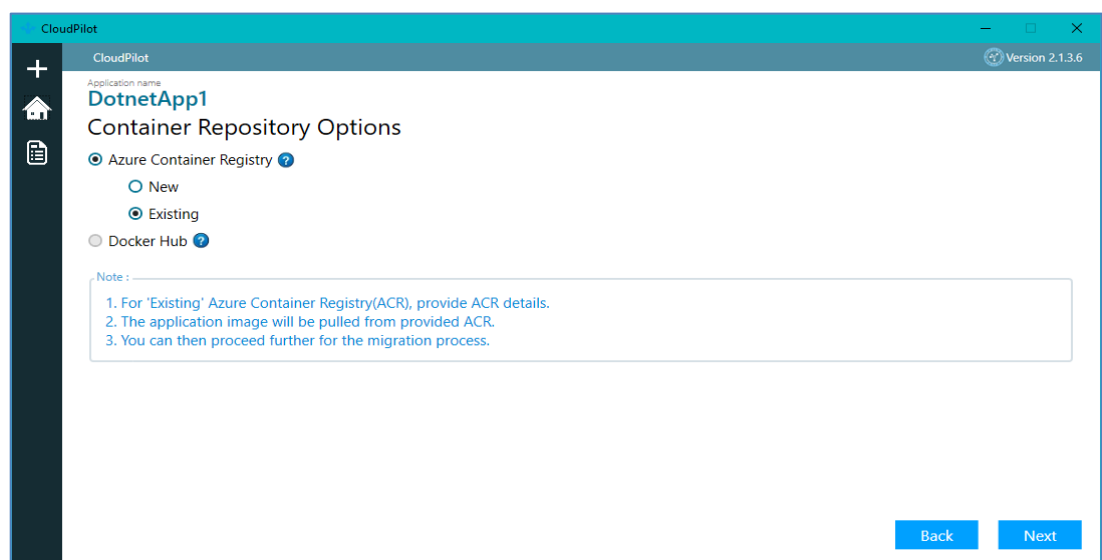
**Figure 87: Container Registry Details Added**

6. Once complete, click **Create**. Azure Container Registry will be created immediately within 5-10 seconds.



**Figure 88: New Azure Container Registry – Created**

7. After completion of all the steps and pushing the application to new Azure Container Registry (steps described in note in Fig. 79) navigate to the below screen (Click **Back**) and select the **Existing** radio button.

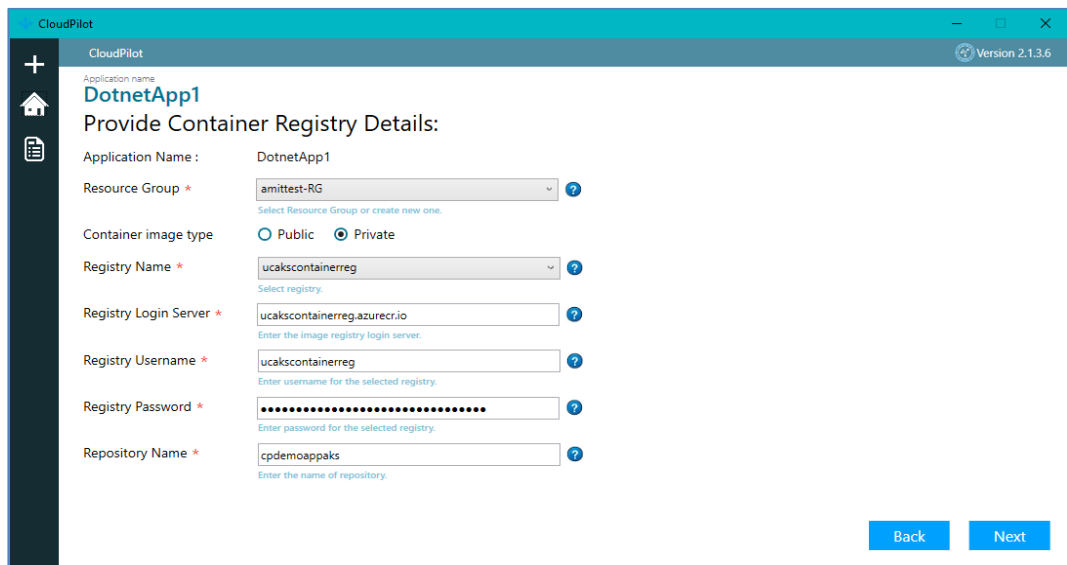


8. Click Next.



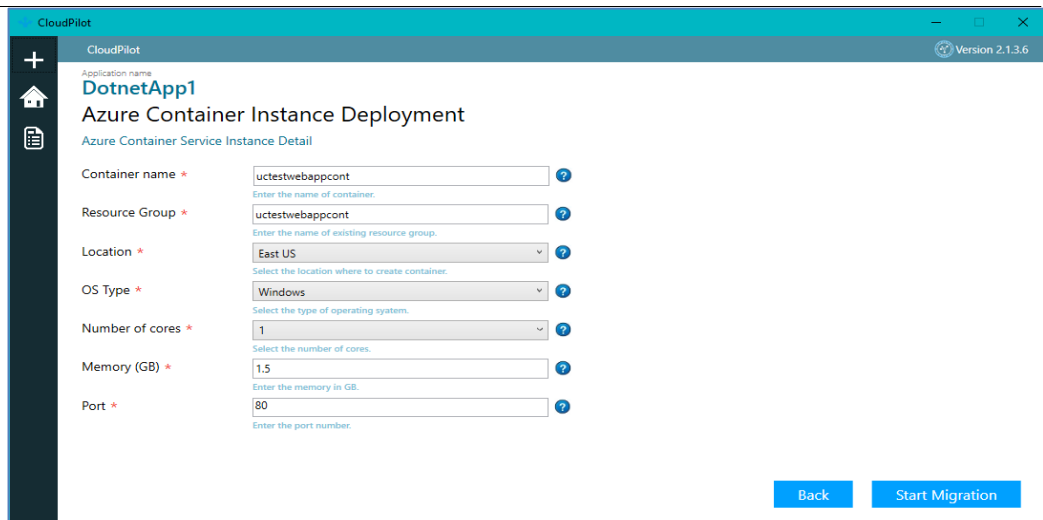
9. Provide valid details of the Container Registry which you just created.

- Select Resource Group from the dropdown list.
- Select Container Image type as **Private**.
- Select the registry name from the dropdown (which you just created).
- Enter the registry login server details, username, and password.
- Enter the repository name. This application will be deployed to the container.



10. Provide valid details for Azure Container

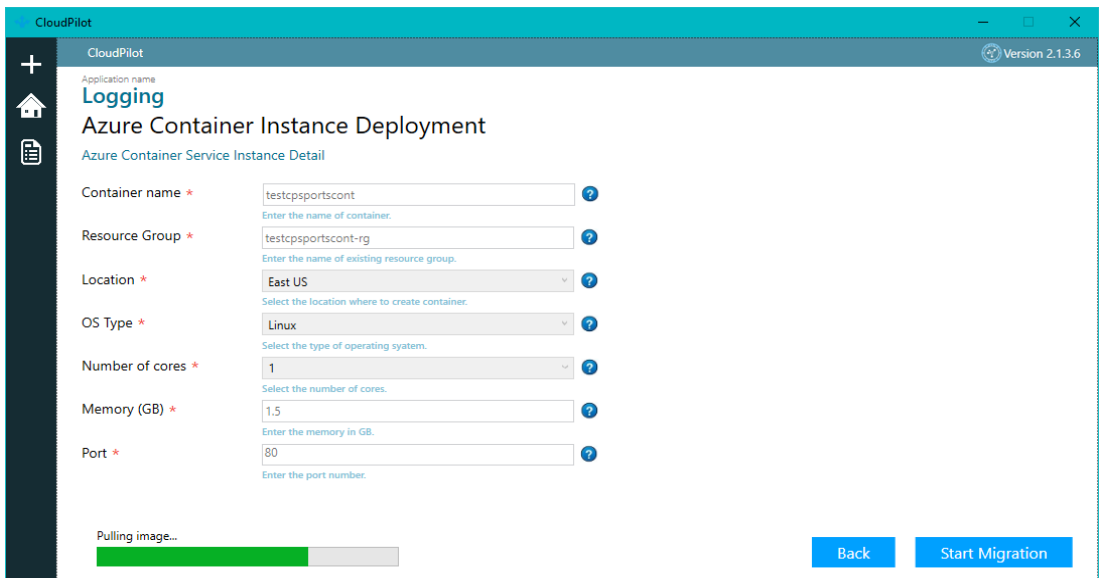
- Enter the container name.
- Enter the resource group name. The new resource group will be created with this name.
- Select the location from the dropdown list. Other details are selected by default.



**Figure 89: Azure Container Instance – Added**

11. Click **Start Migration** and the migration process will start.

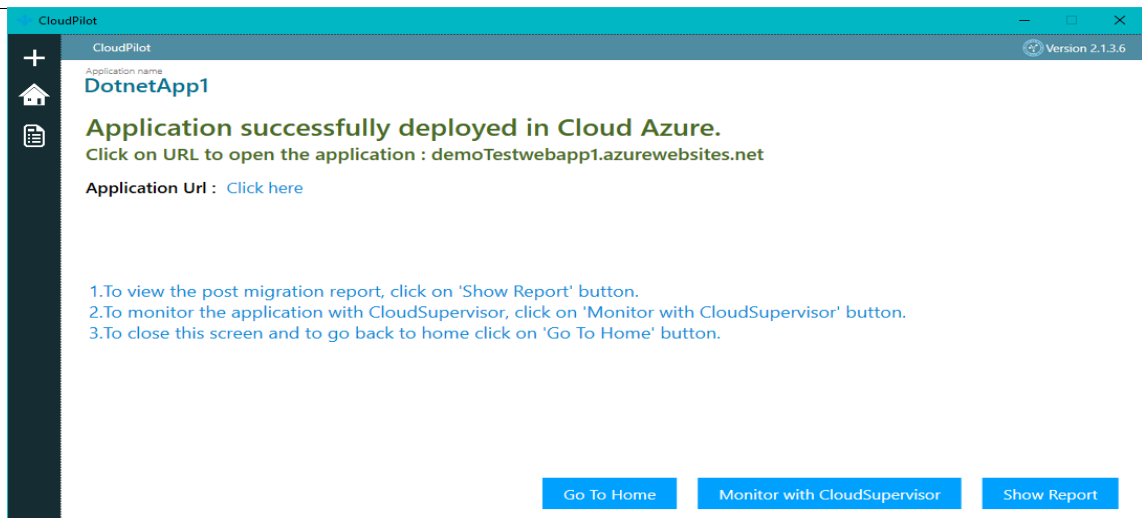
The deployment of the application to Azure is in progress as shown in [Figure 90: Deployment in Progress](#).



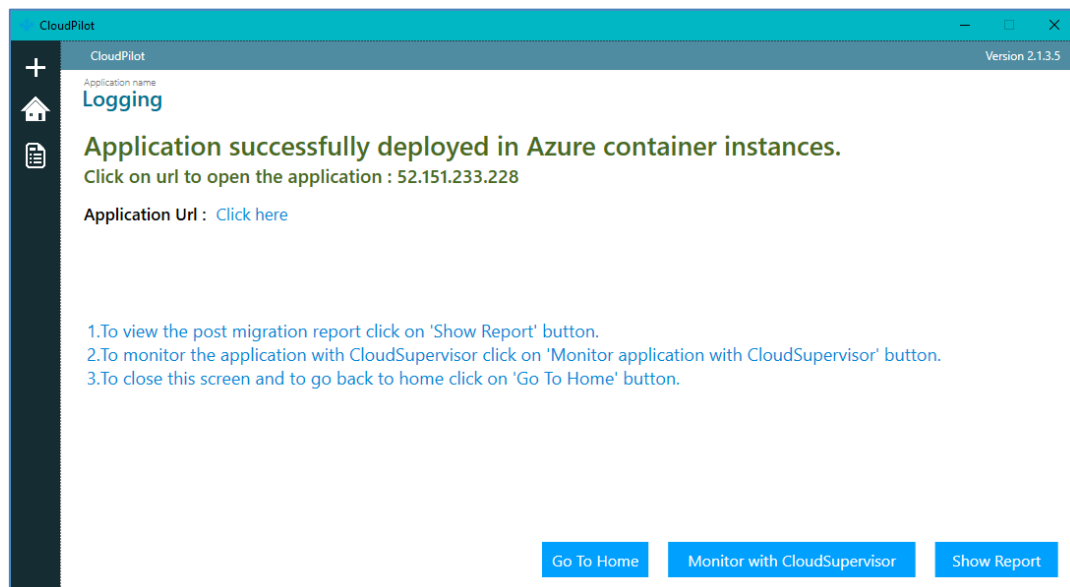
**Figure 90: Deployment in Progress**

## 4.2 Application deployed to Azure

Once deployed "Application successfully deployed in Cloud Azure." message appears on the screen as shown in [Figure 91: Application Deployed](#).



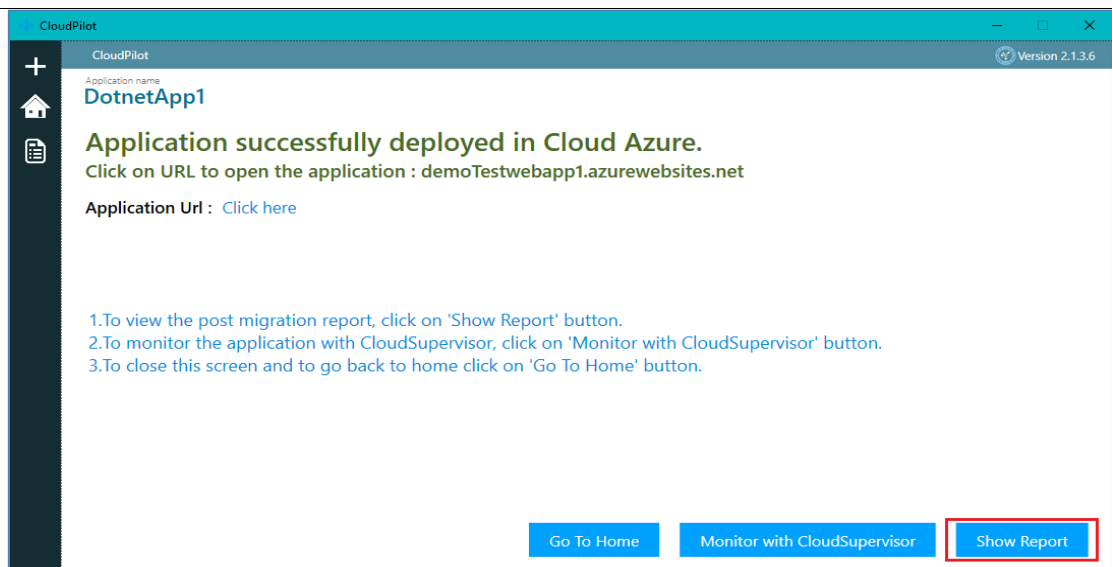
**Figure 91: Application Deployed – Azure App Service**



**Figure 91 A: Application Deployed - Azure Container Instance**

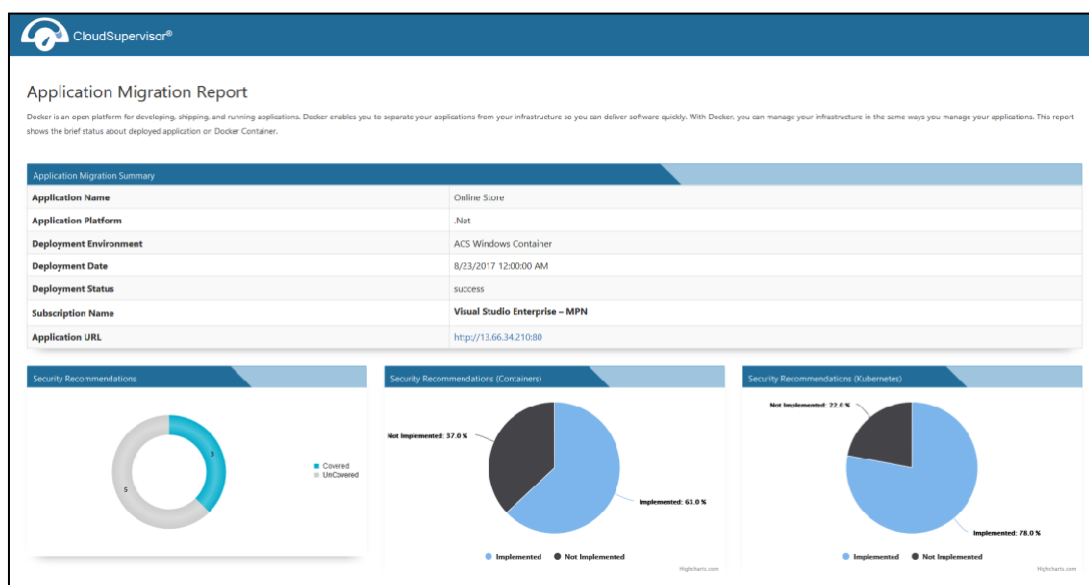
### 4.3 Post-Migration Report

1. Click **Show Report** to open and know about the migration report of the deployed application on Azure App Service as shown in [Figure 97: Post Migration Report](#).



**Figure 92: Post Migration Report**

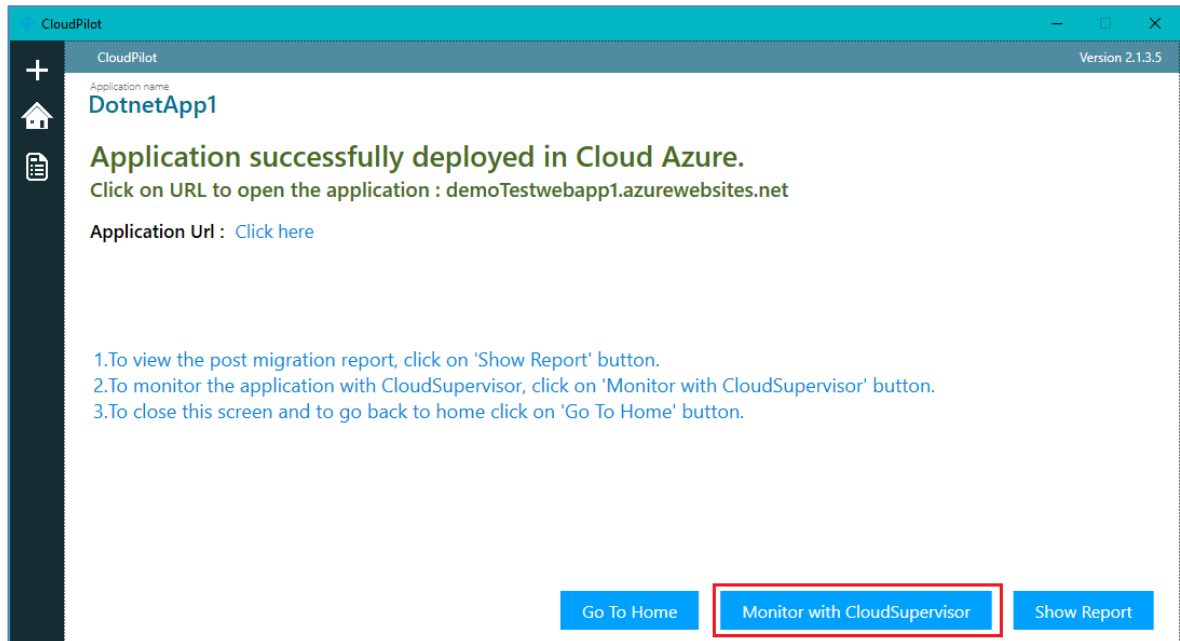
You will be redirected to the post application migration report as shown in [Figure 93: Application Migration Report](#). The Post application migration report consists of the application details, deployment details with the total time duration of application deployment and provides additional security recommendations.



**Figure 93: Application Migration Report**

#### 4.4 Monitor Application using CloudSupervisor

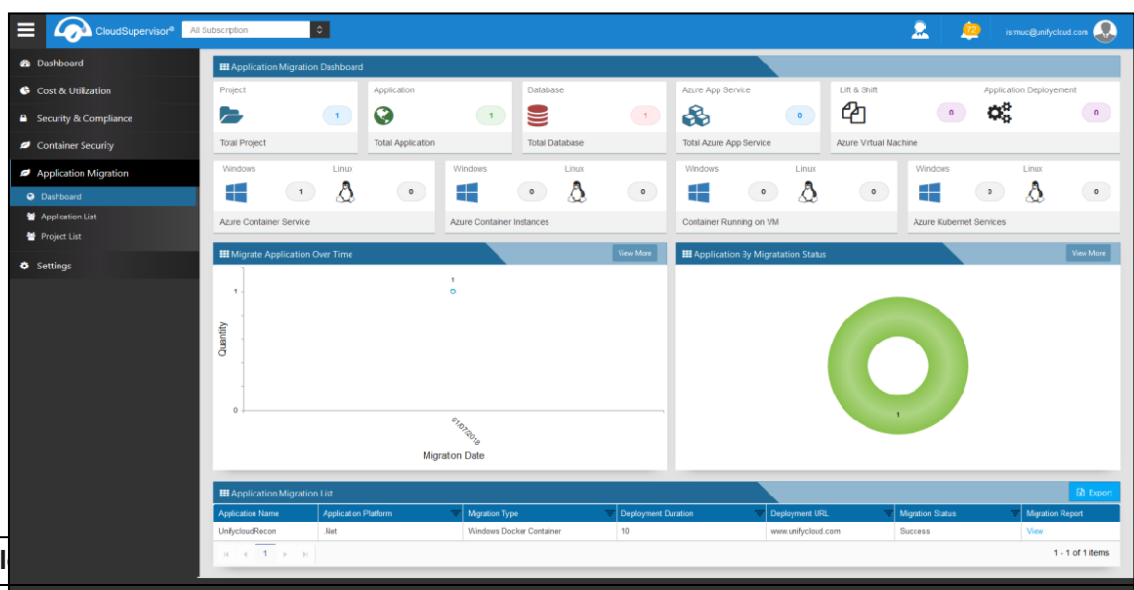
1. For detailed reports on migration, click **Monitor Application with CloudSupervisor®** as shown in [Figure 94: Monitor Application with CloudSupervisor](#).



**Figure 94: Monitor Application with CloudSupervisor**

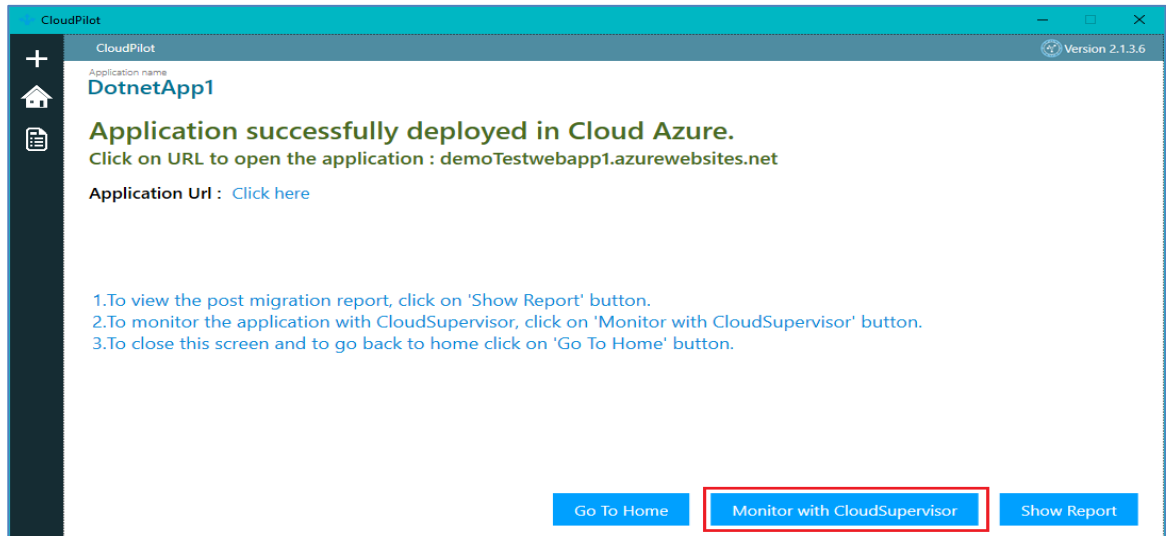
You will be redirected to the **CloudSupervisor®** dashboard as shown in [Figure 95: CloudSupervisor® - Dashboard](#).

**NOTE:** For more details on monitoring of the application, we recommend that you should buy **CloudSupervisor®** tool.  
To know more click <https://www.cloudatlasinc.com/cloudsupervisor/>



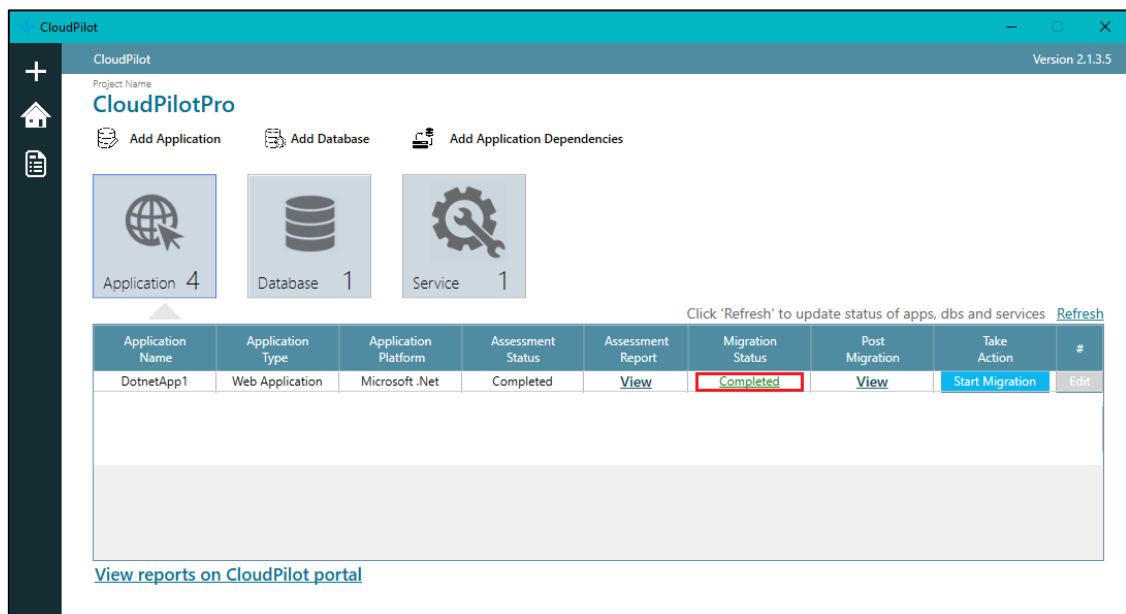
**Figure 95: CloudSupervisor® - Dashboard**

You will be redirected to the CloudPilot tool window with the migration status **completed** as shown in [Figure 96: CloudPilot Tool Window - Migration Completed](#).



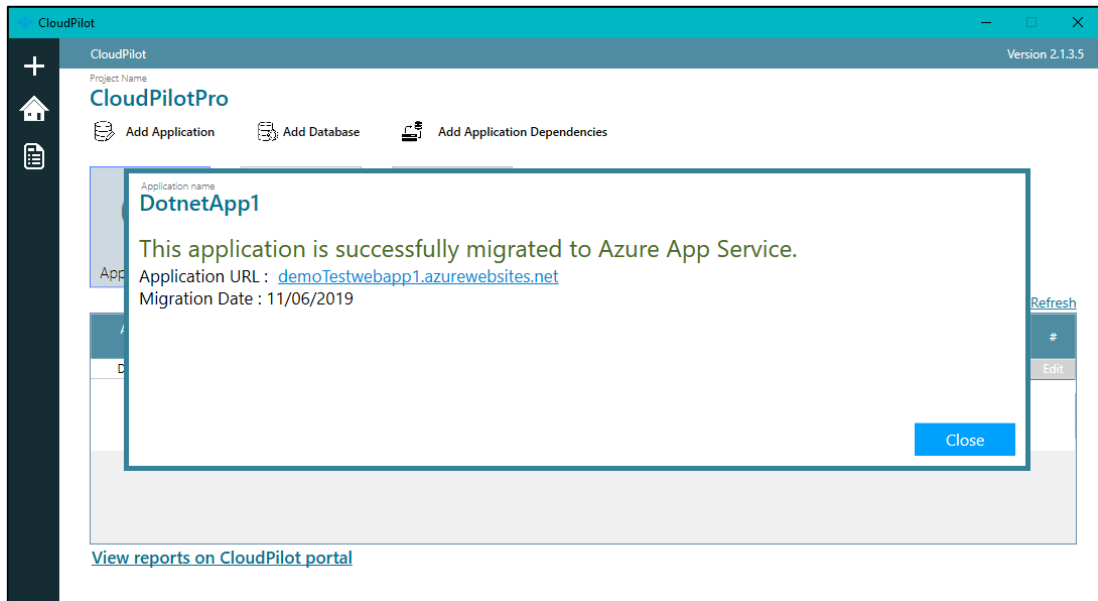
**Figure 96: CloudPilot Tool Window - Migration Completed**

You can click on 'Completed' to view the migration details.



**Figure 97: CloudPilot Tool Window - Migration Completed**

The following are the details shown. You can click on the Application URL to browse your application.



**Figure 98: View Migration Details - Migration Completed**

## 4.5 Database Migration

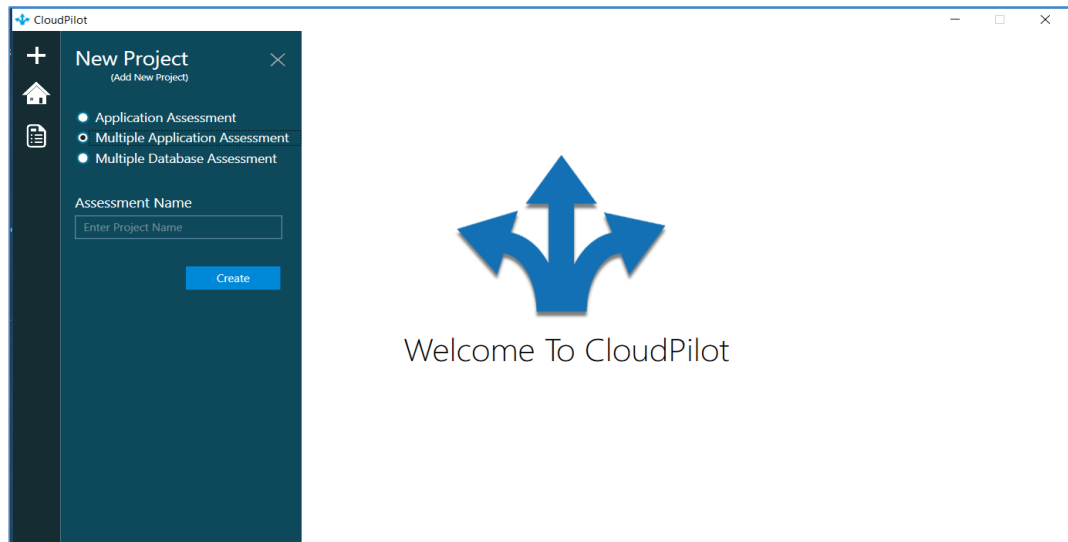
1. The process of migration of database is like application migration.
2. Click on **the Start Migration** button on the grid for the database you want to migrate to.
3. Next select the environment to which you want to migrate your database. Currently, **Azure SQL Database** is supported by CloudPilot Tool. More support for migrating to other types of environments will be coming in upcoming versions in future.
4. **Login** with your **Active Directory credentials** that has at least one subscription. The subscription must have **owner** or **contributor** role to perform migration.
5. Next you must provide valid details for Azure SQL Database.
6. After all required fields are validated, click on **Proceed** to start the migration.
7. The migration process will start. It will take some time to create the resources in Azure.
8. After the creation of the resources in Azure, you will get the connection string of the Azure SQL database.
9. Further migration process requires **Microsoft Database Migration Assistant (DMA)** to be installed in the system.
10. Microsoft DMA can be launched from the CloudPilot tool itself.
11. Provide source server details and select the database for migration in Microsoft DMA.
12. Provide target server details and select the database for migration in Microsoft DMA.

- 
13. Follow the steps as the flow goes on in Microsoft DMA.
  14. Within some time, your database will be successfully migrated to Azure.



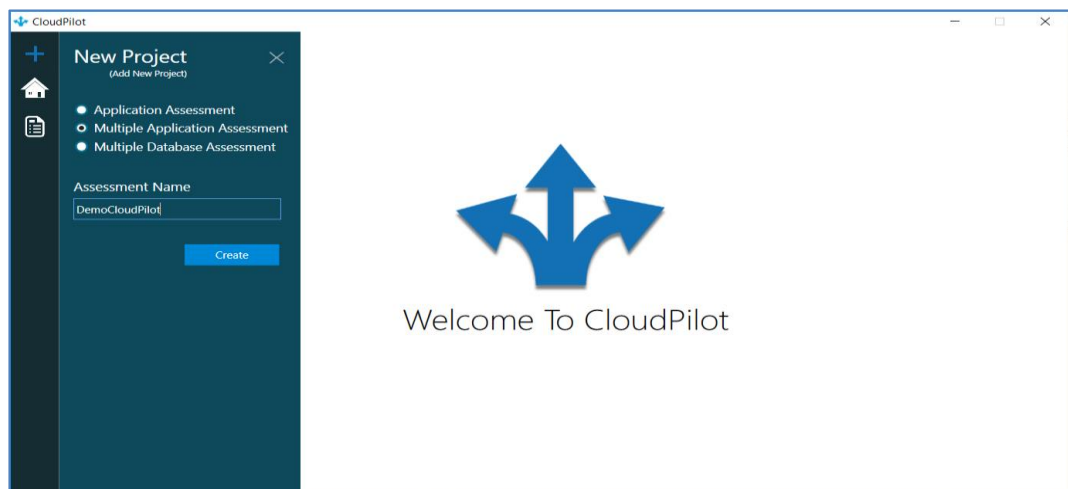
## 5. Create Multiple Application Assessment Project

1. Select the radio button as **Multiple Application Assessment** as shown in [Figure 1: New Project](#).



**Figure 1: New Project**

2. Enter the project name in the text box and click Create as shown in [Figure 2: Create Project](#)

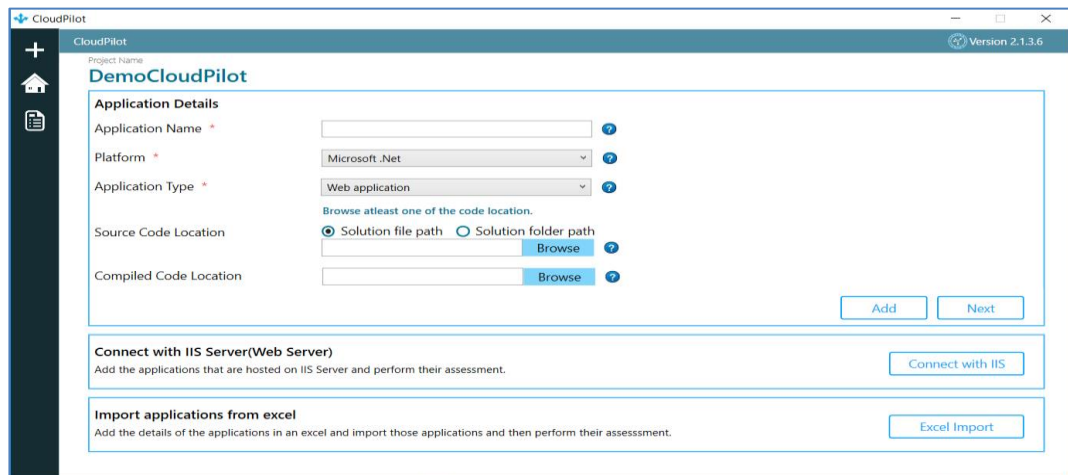


**Figure 2: Create Project**

3. Enter the application name.
4. Select Application Type as Web application.

**NOTE:** You need to follow the same procedure for Windows services or Console application types.

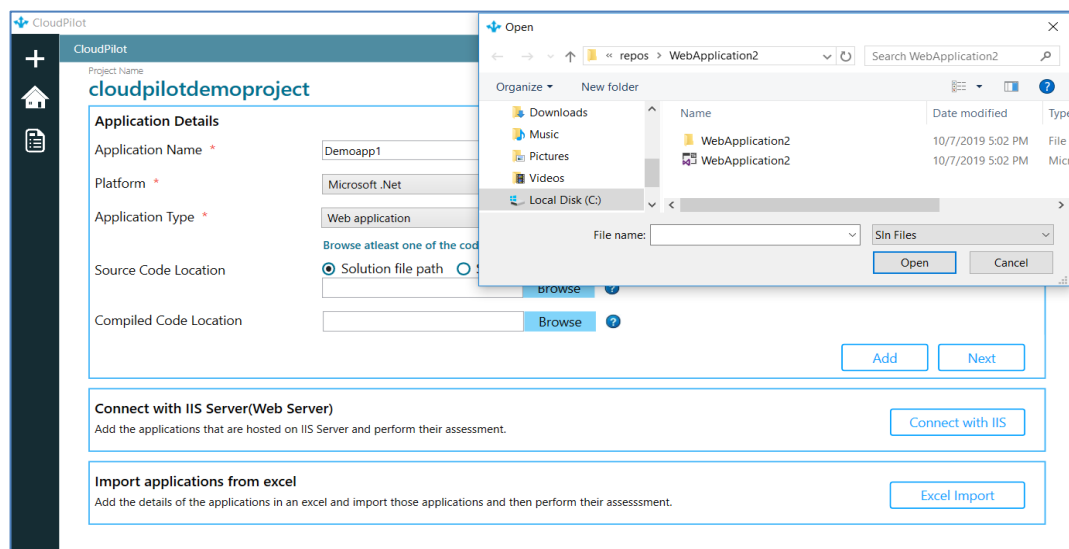
5. Select Platform as Microsoft. Net as shown in [Figure 3 : Add Application Details – Microsoft.Net.](#)



**Figure 3: Add Application Details – Microsoft. Net**

Under the Source Code Location section, click **Browse** and provide the path of your source application.

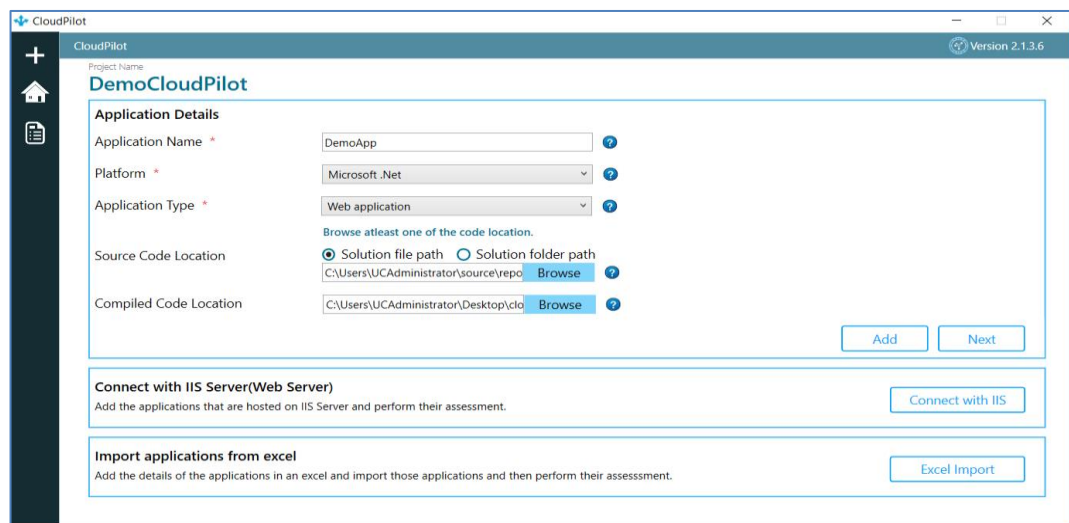
If you have the solution file, select the **Solution file path** radio button otherwise, you can directly select the project folder path by selecting the **Solution folder path** radio button as shown in [Figure 4 : Application - Source Code Location.](#)



**Figure 4: Application - Source Code Location**

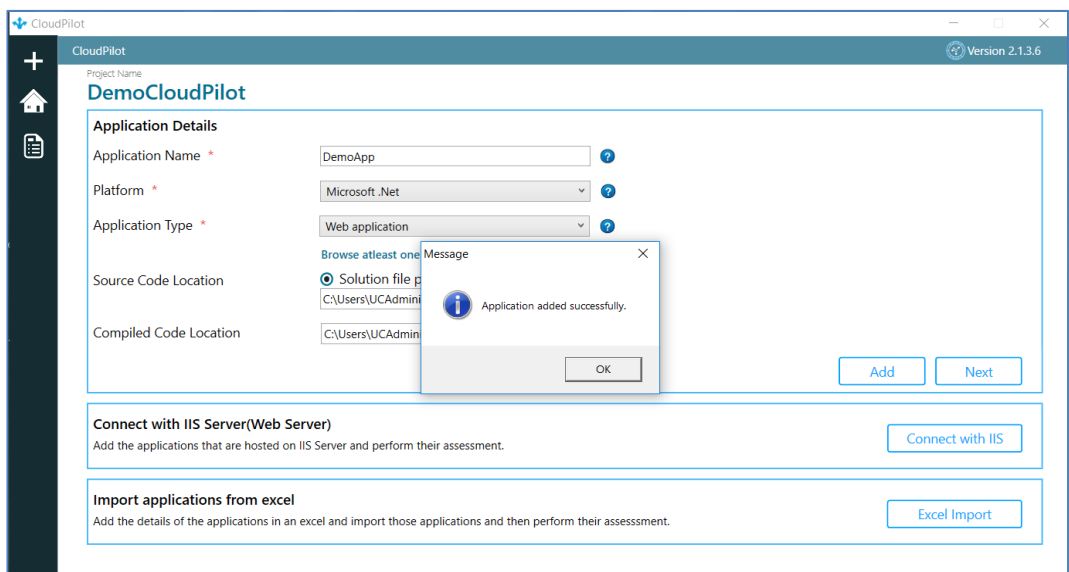
**NOTE:** Browse at least one of the **Code Location** at one time.

6. Provide details of Compiled Code Location, click **Browse** and provide the path of your compiled code location as shown in [Figure 5: Browse – Compiled Code location](#).



**Figure 5: Browse – Compiled Code location**

7. Once the application details are complete, click **Add**.
8. You will get a dialog box with a message "Application added successfully," click **OK** as shown in [Figure 6 : Application Added Successfully](#).



**Figure 6: Application Added Successfully**

To add another application for assessment, follow the steps written below -

1. Enter the application name.
2. Select Application Type as a Web application.
3. Under the Source Code Location section, click **Browse** and provide the path of your source application
4. Provide details of Compiled Code Location, click **Browse** and provide the path of your compiled code location as shown in [Figure 7: Browse – Compiled Code location](#)

### Other methods to add Applications-

- A. Connect with IIS
- B. Excel Import

#### A. Connect with IIS

- a. The applications that are hosted on IIS Server can be directly added to CloudPilot tool for assessment. Click on **Connect with IIS** as shown in [Figure 6 A: Connect with IIS](#)

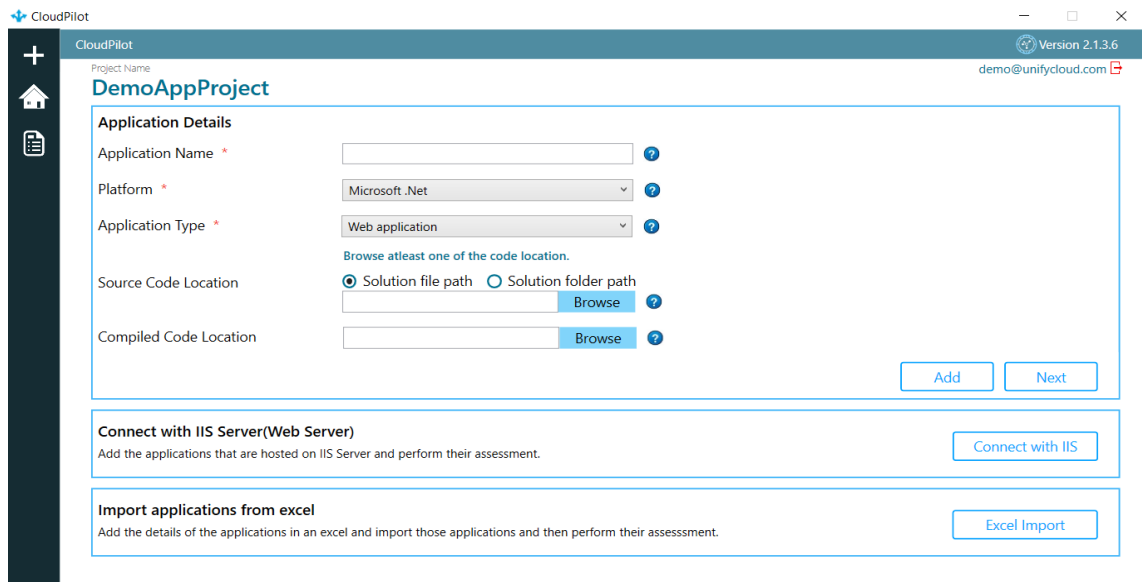
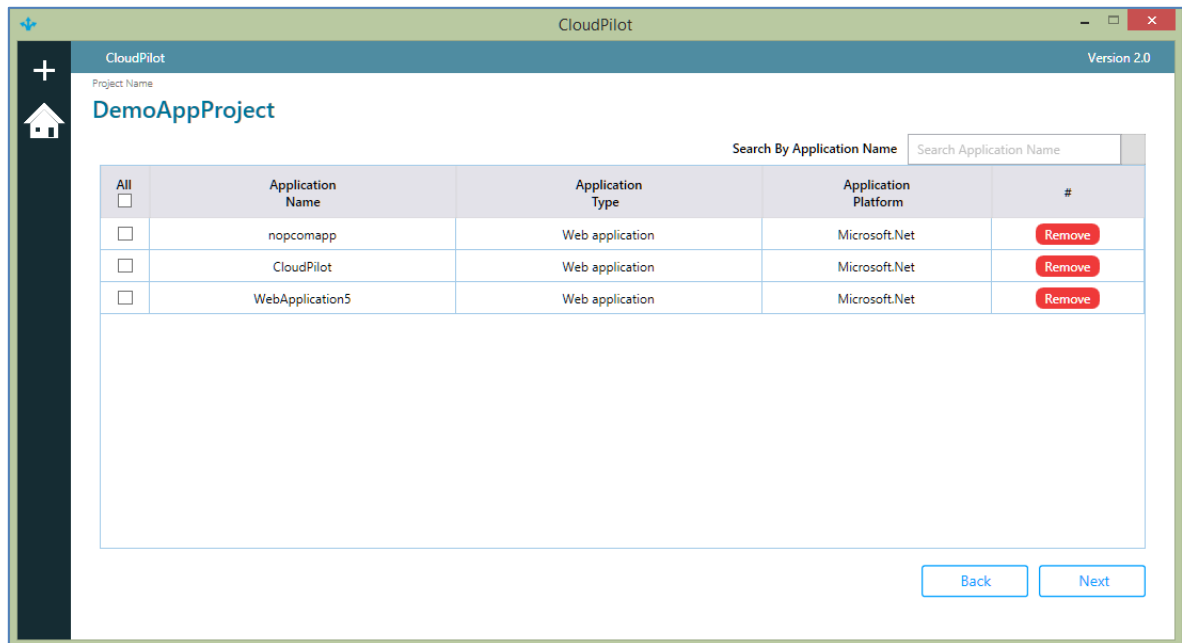


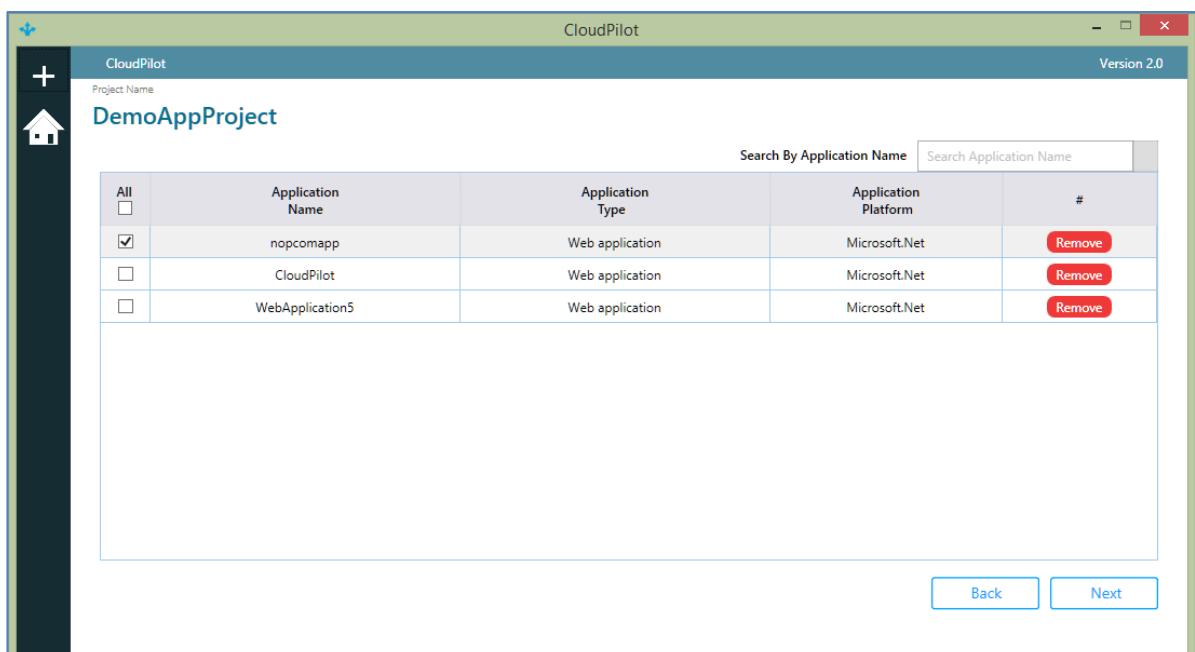
Figure 6 A: Connect with IIS

- b. The application hosted on IIS Server will be shown in the grid as shown in [Figure 6 B: Application list hosted on IIS Server](#)



**Figure 6 B: Application list hosted on IIS Server**

- c. Select the specific check box for application you want to scan as shown in [Figure 6 C: Application Details-hosted on IIS Server](#)

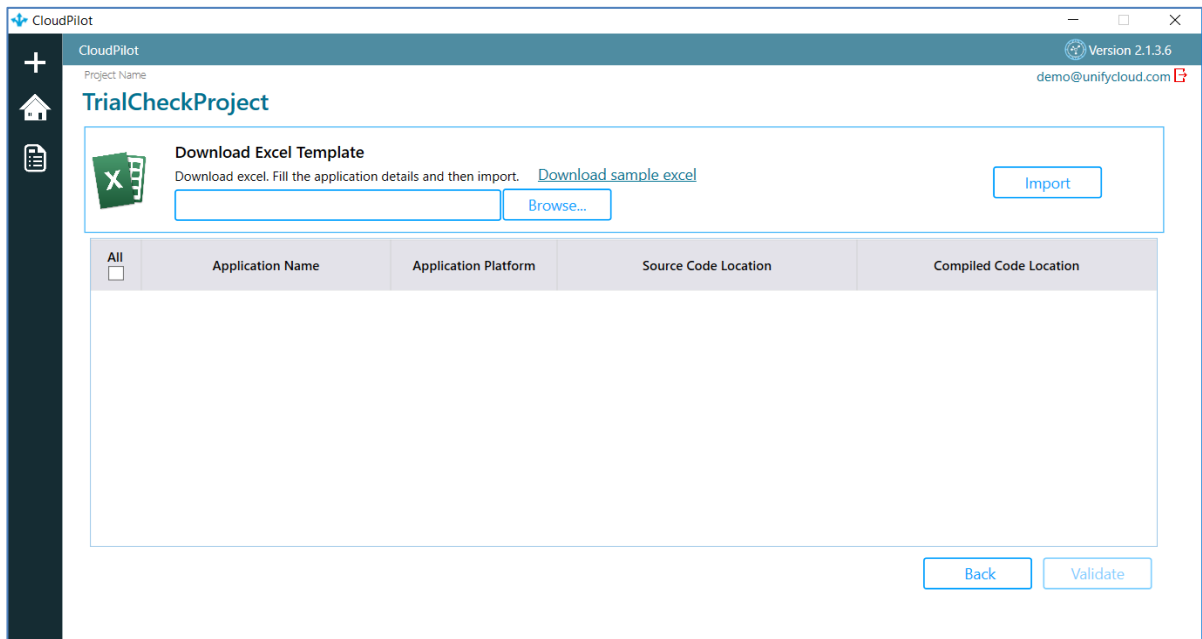


**Figure 6 C: Application Details-hosted on IIS Server**

- d. Click **Next** to proceed further for scanning.

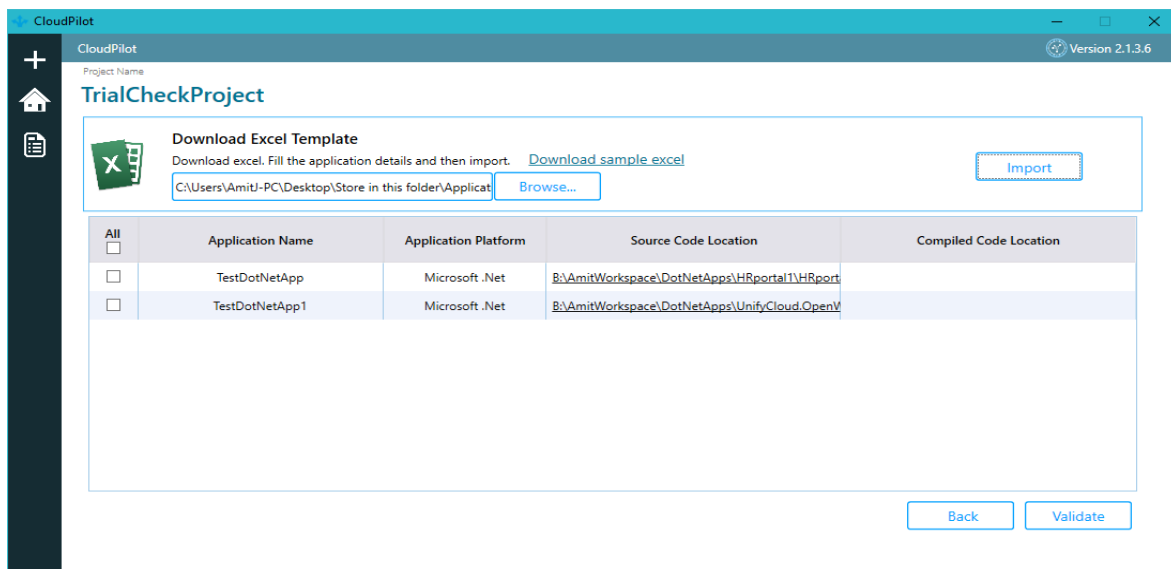
## B. Excel Import

- a. Click on **Download sample excel** as shown in [Figure 6 D: Download Sample Excel](#)



**Figure 6 D: Download Sample Excel**

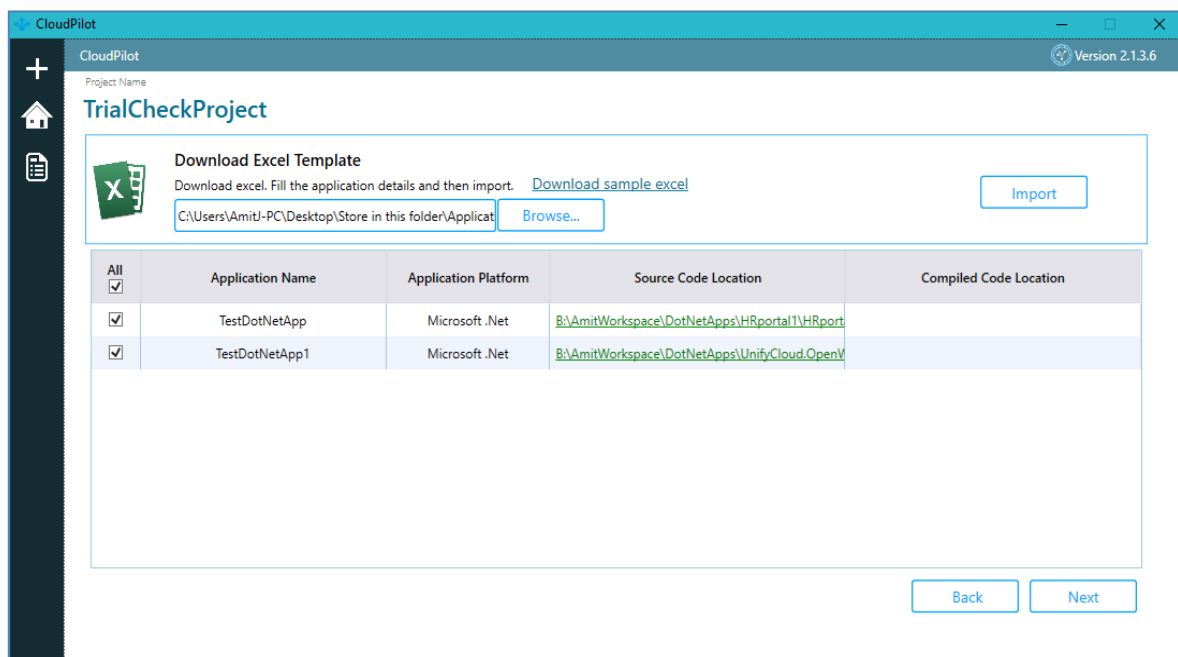
- b. Fill in the excel by providing the details of your application like application name, application platform, source code location/compiled code location, etc.
- c. Browse the excel in the tool by clicking on **Browse** button as shown in [Figure 6 E: Browse Excel Path](#)



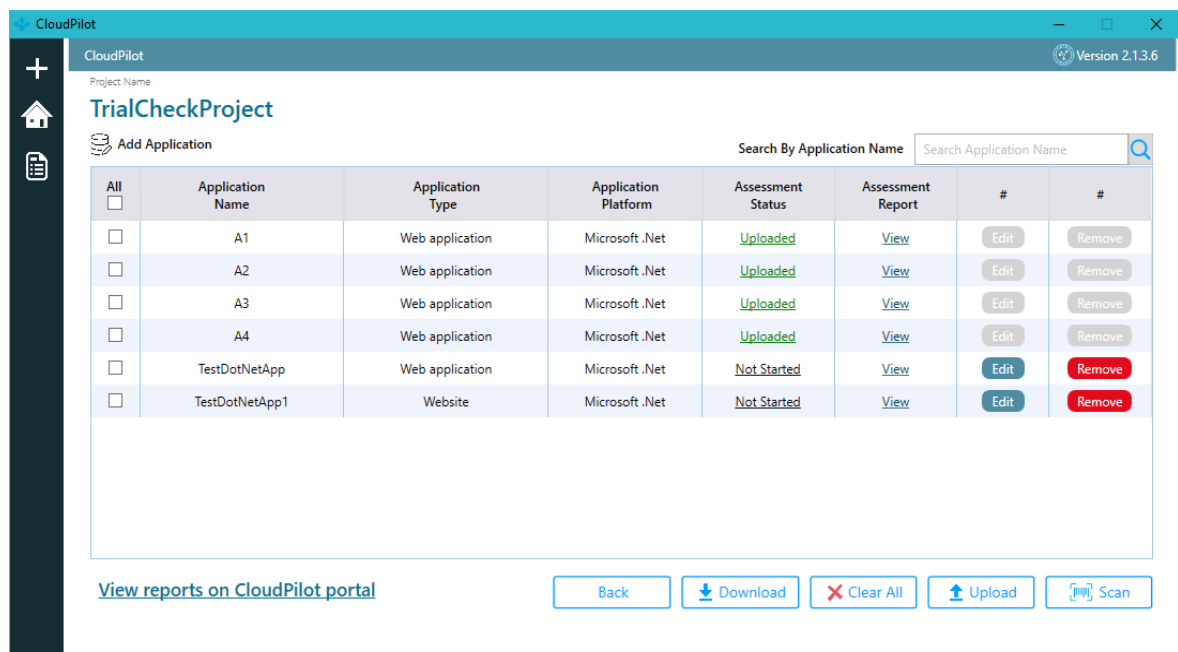
**Figure 6 E: Browse Excel Path**

- d. Click on **the Import** button to import details from excel to tool.

- e. The list of applications will be displayed on the grid.
- f. Click Validate to verify the path of the applications. If the paths are correct, then the color of the application paths changes to green or red as shown in [Figure 6 F: Application Details-Validate Path](#)
- g. Click **Next**.
- h. Select the specific check box for the Application you want to scan as shown in [Figure 6 G: Application Details](#)

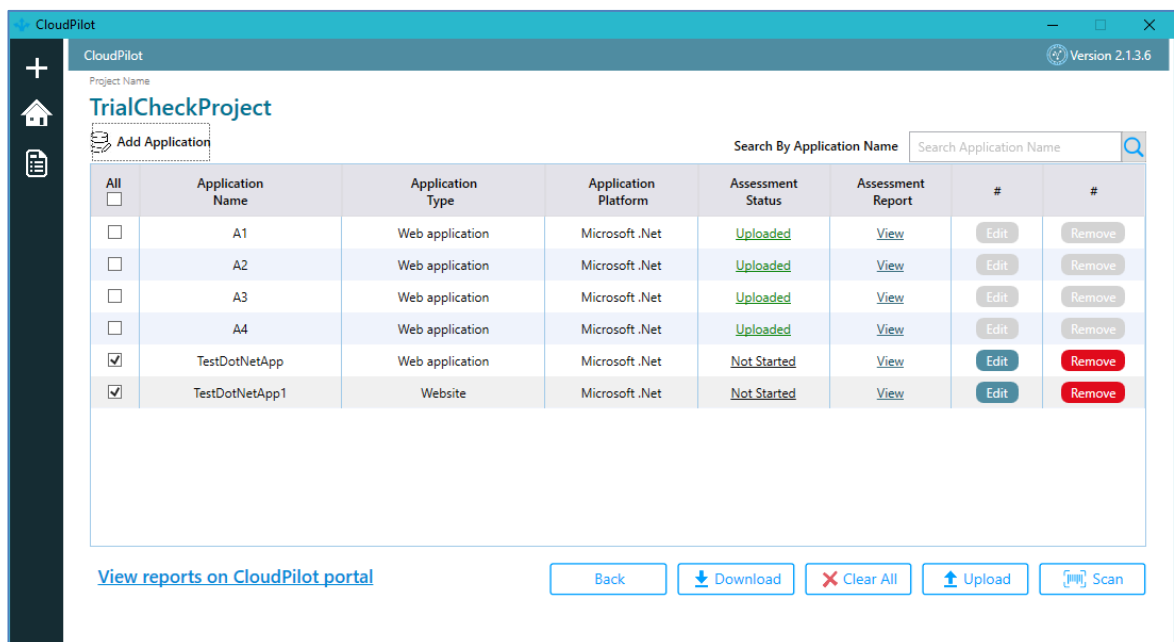


**Figure 6 F: Application Details-Validate Path**



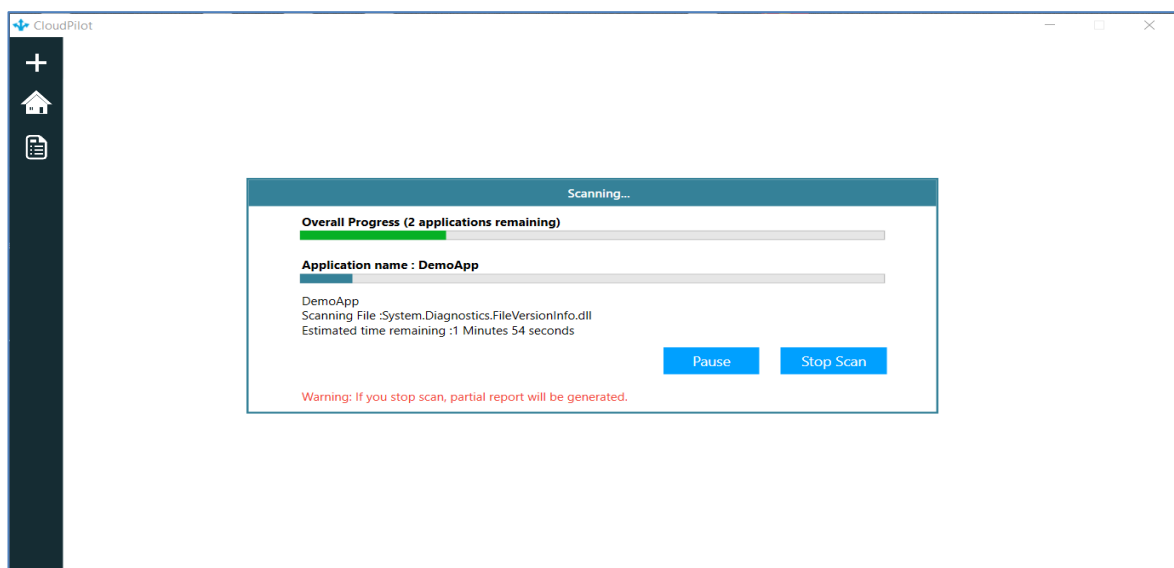
**Figure 6 G: Application Details**

9. Select the specific check box for the application you want to scan and click Scan to perform the scanning of selected Applications as shown in [Figure 7: Application Details](#)



**Figure 7: Application Details**

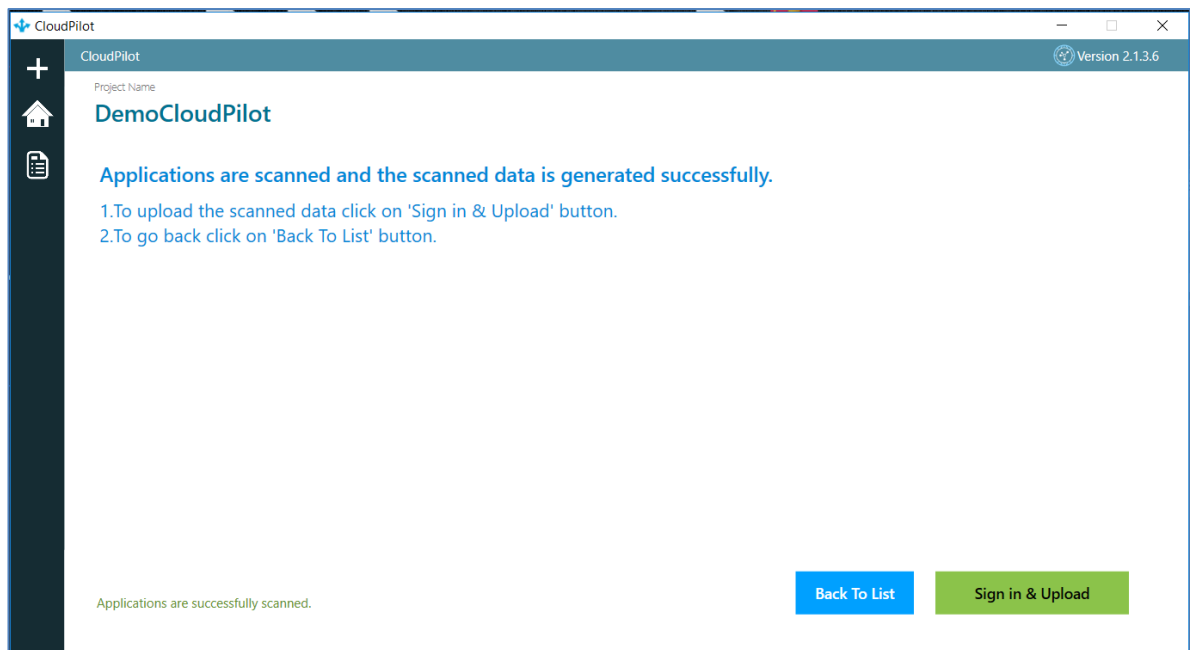
10. The scanning of selected Applications is in process as shown in [Figure 7 A: Scanning](#)



**Figure 7 A: Scanning**

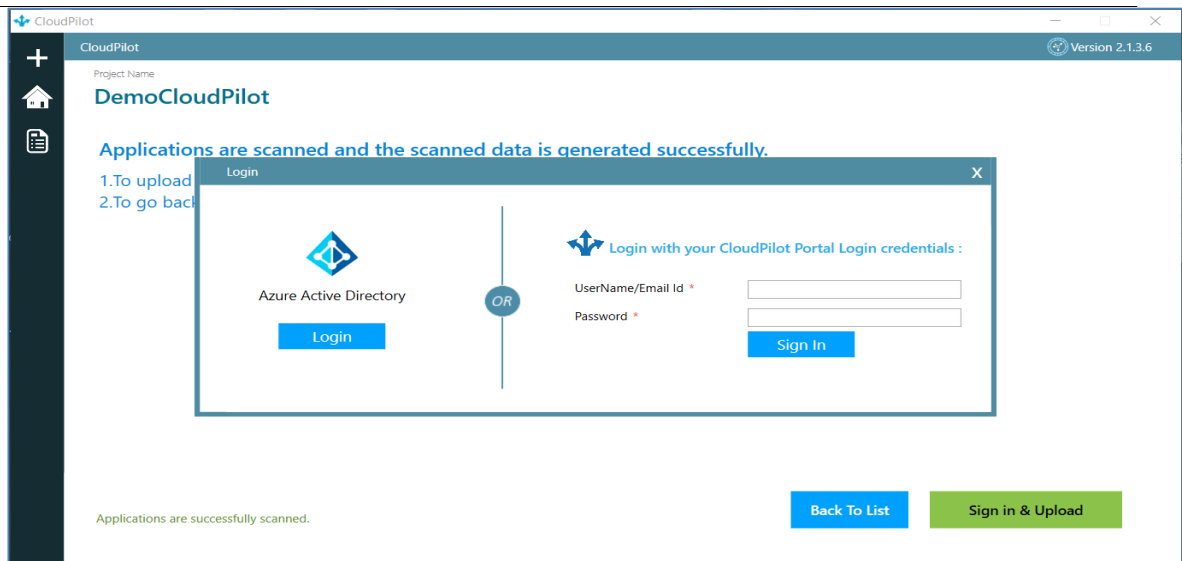


11. Applications are scanned, and the scanned data is generated successfully as shown in [Figure 8: Applications Scanned Successfully](#)



**Figure 8: Application Scanned Successfully**

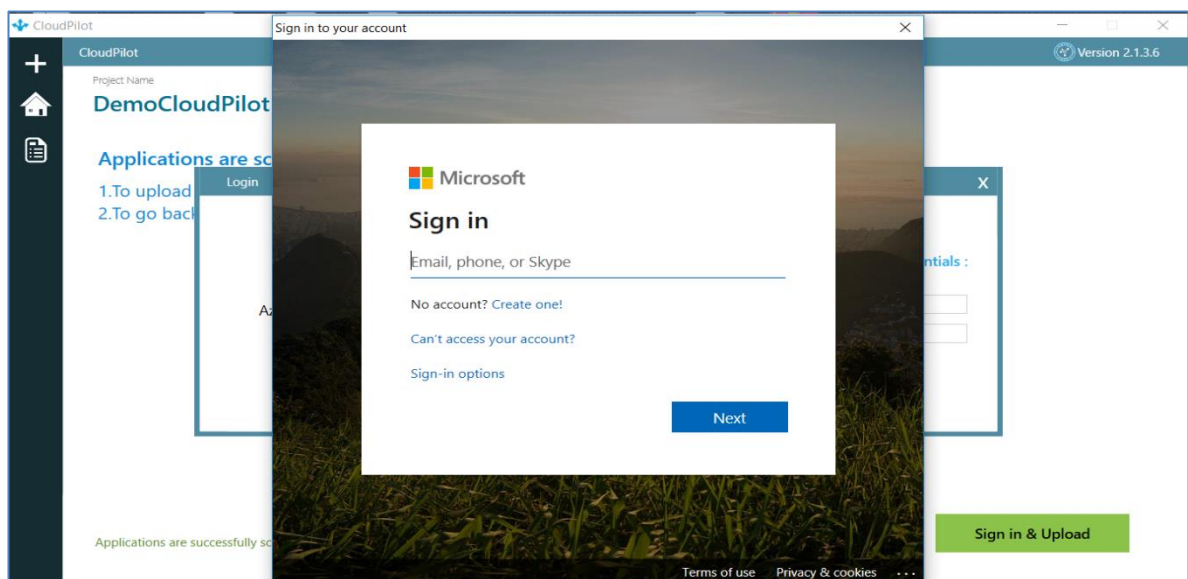
12. Click on Sign in & Upload button and Login Window appear on the screen as in [Figure 9: Login.](#)



**Figure 9: Login**

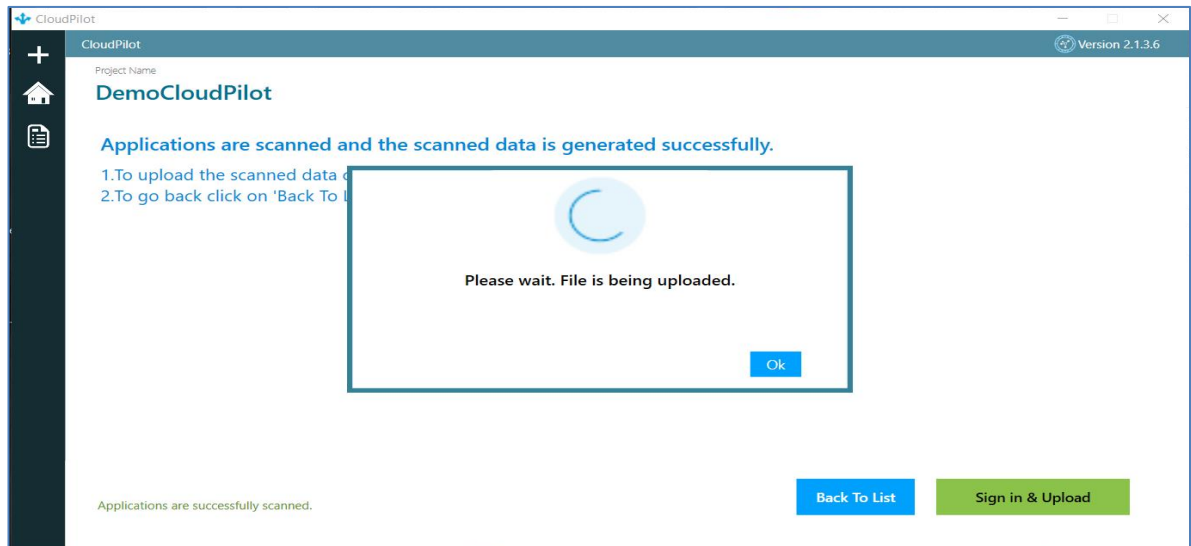
13. Enter your credentials and click **Next** to login as shown in [Figure 10: Login-Enter Credentials](#).

**NOTE:** If you do not have a Microsoft account then you need to create one, click **Create one** button as shown in [Figure 10: Login -Enter Credentials](#).



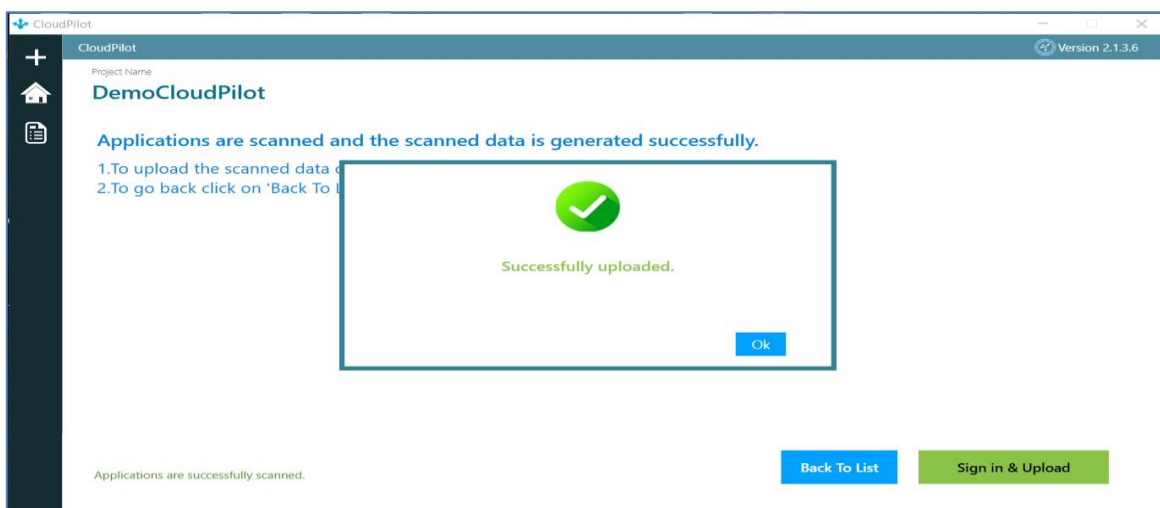
**Figure 10: Login – Enter Credentials**

14. The files are being uploaded to CloudPilot Portal as shown in: [Figure 11: Uploading report](#)

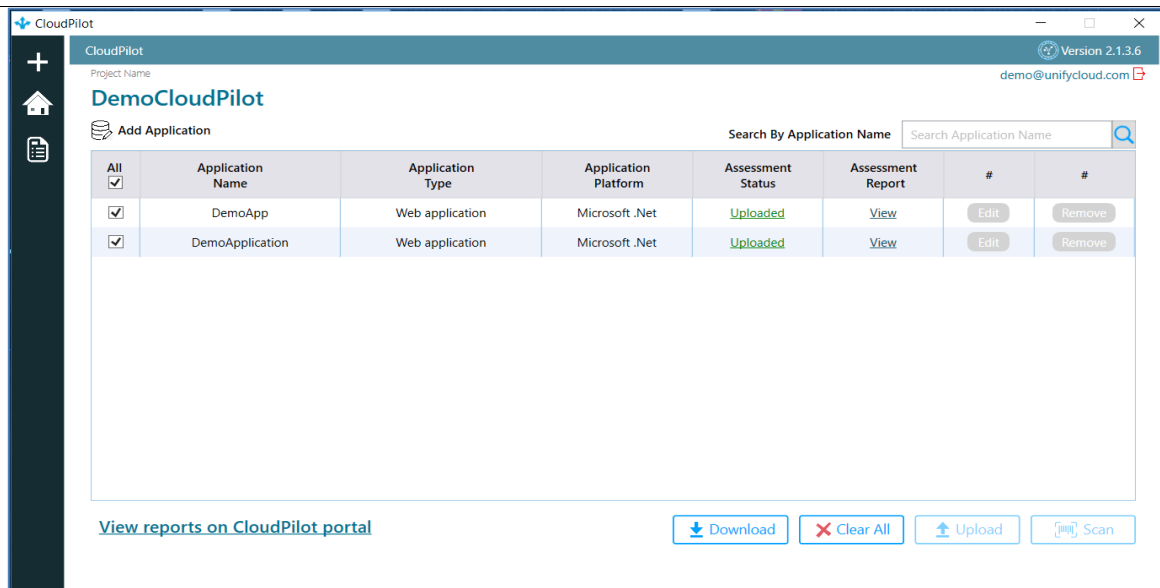


**Figure 11: Uploading report**

15. Applications reports are successfully uploaded as shown in [Figure 11 A: Successfully Uploaded](#)



**Figure 11 A: Successfully Uploaded**

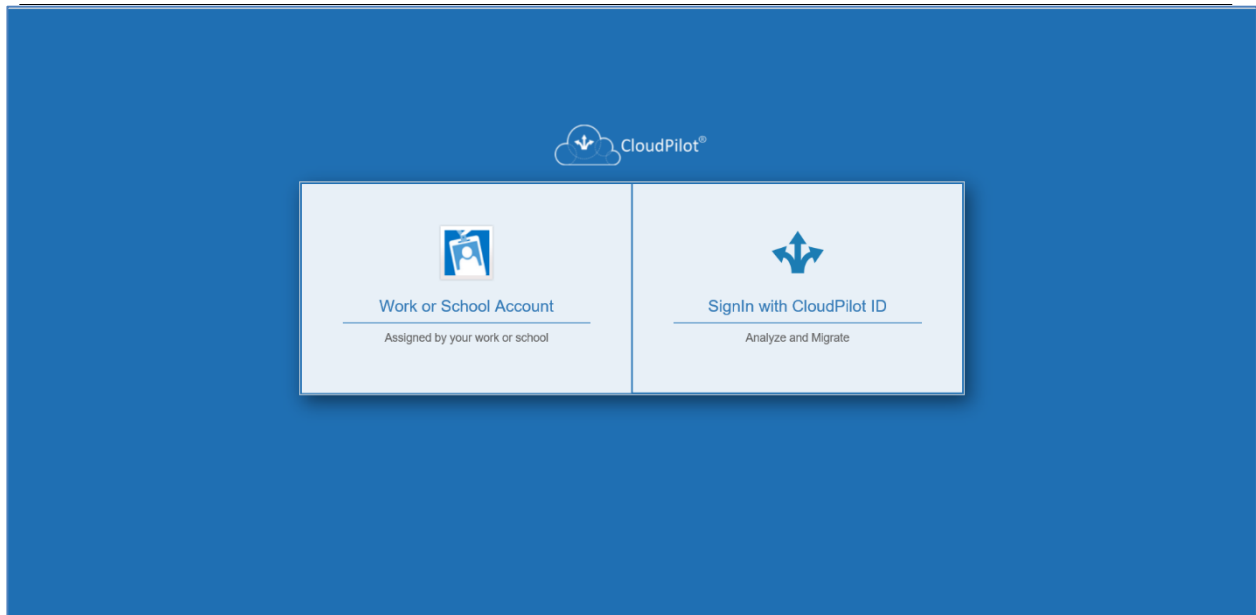


- You can click on View Button in the grid to view Assessment report.
- Click on View reports on CloudPilot portal link and

You will be directed to the Work or School Account authentication page of the CloudPilot® Portal as shown in [Figure 12: CloudPilot Home Page](#).

16. Log in with your Work or School account on CloudPilot portal and click **Work or School Account** button to access CloudPilot.

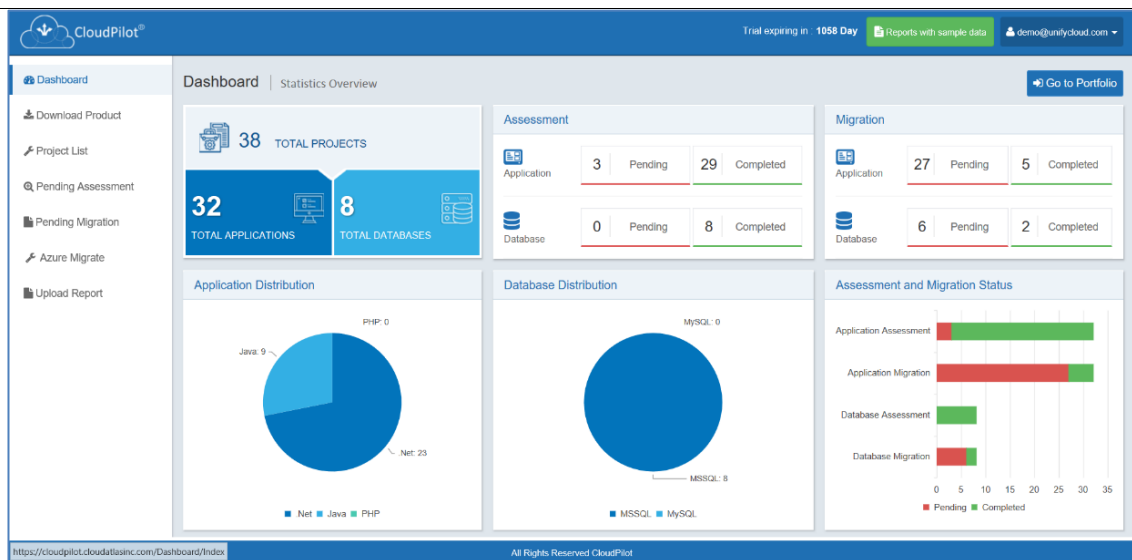
**NOTE:** If you do not have a Work or School account then you can **SignIn with your CloudPilot ID**. To generate a new CloudPilot ID, you can contact our support team on [support@unifycloud.com](mailto:support@unifycloud.com) or [click here](#).



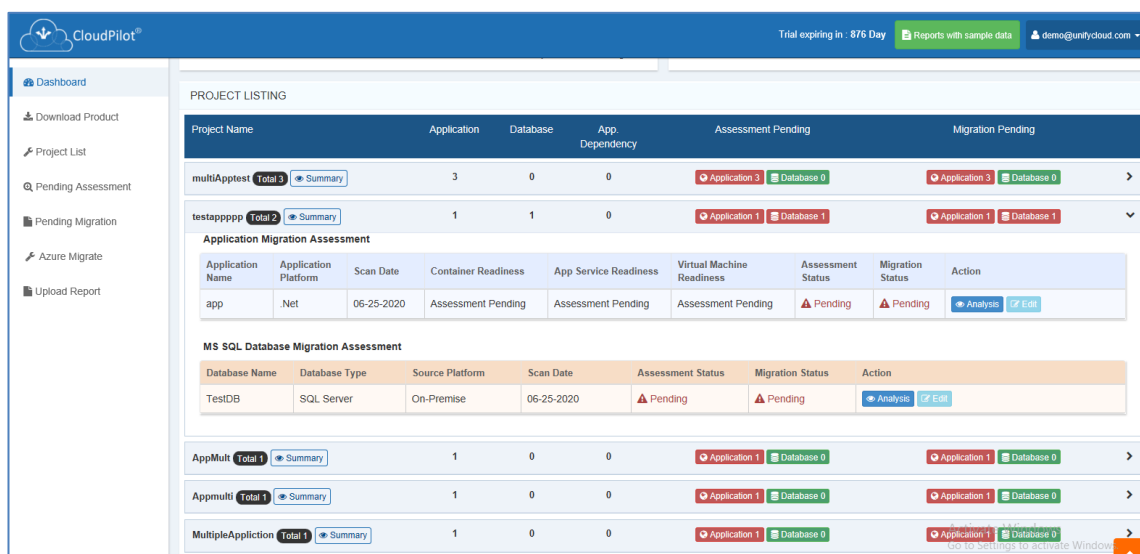
**Figure 12: CloudPilot Home Page**

17. You will login to the CloudPilot Dashboard which contains the statistical overview of the application, database, and application dependencies assessment.

**NOTE:** You need to implement all the recommendations to remediate your application, database and application dependencies.



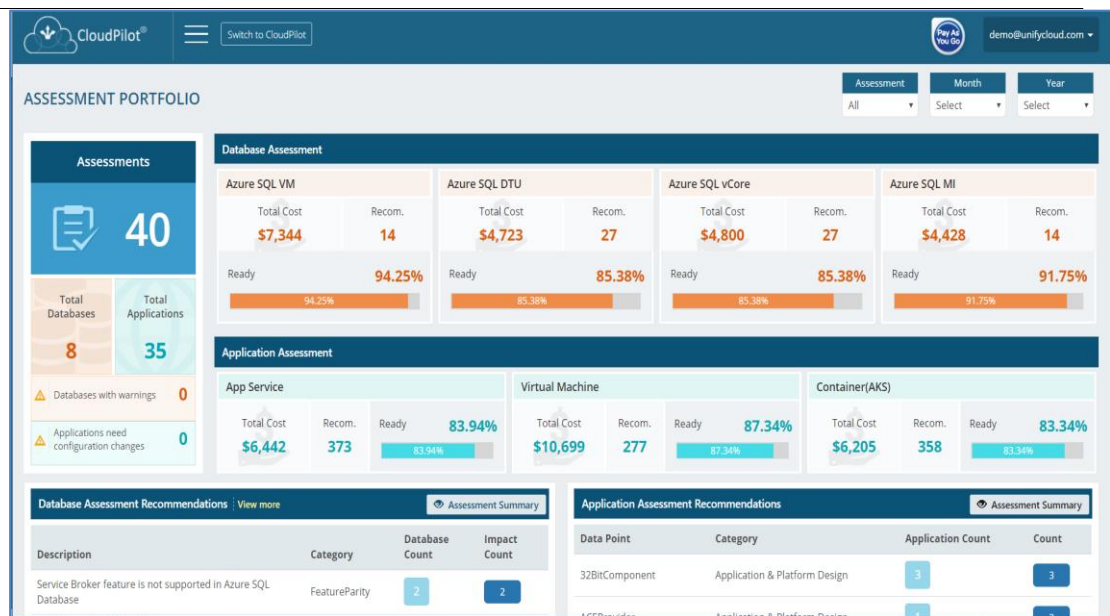
18. Click **Analysis** button as shown in [Figure 13: Analysis Dashboard](#).



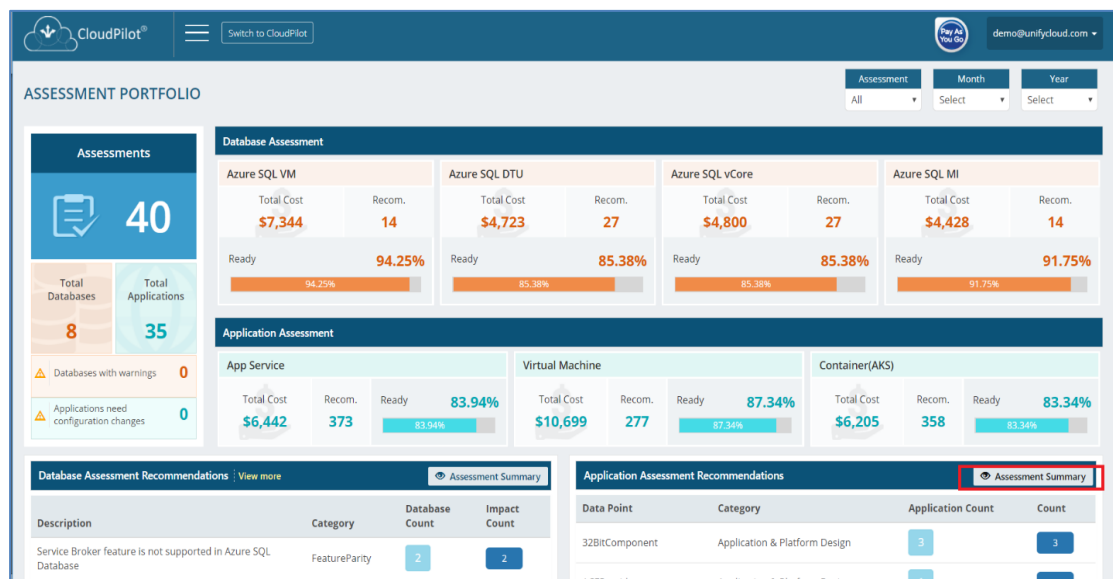
**Figure 13: Analysis Dashboard**

**NOTE:** You can follow the steps to perform analysis of Application as described in Section 3.4.

19. In the Dashboard on the top right corner click on Go to Portfolio. You will be redirected to CloudPilot Portfolio Dashboard where user can see the Assessment list of all application and database those has been scanned/uploaded into the portal.



20. Click on **the Assessment Summary** button then the user will see the Assessment summary of all the Applications.



Application Assessment Summary

Switch to CloudPilot

demo@unifycloud.com

Application Assessment Summary

Total Applications : 33

Export To Excel

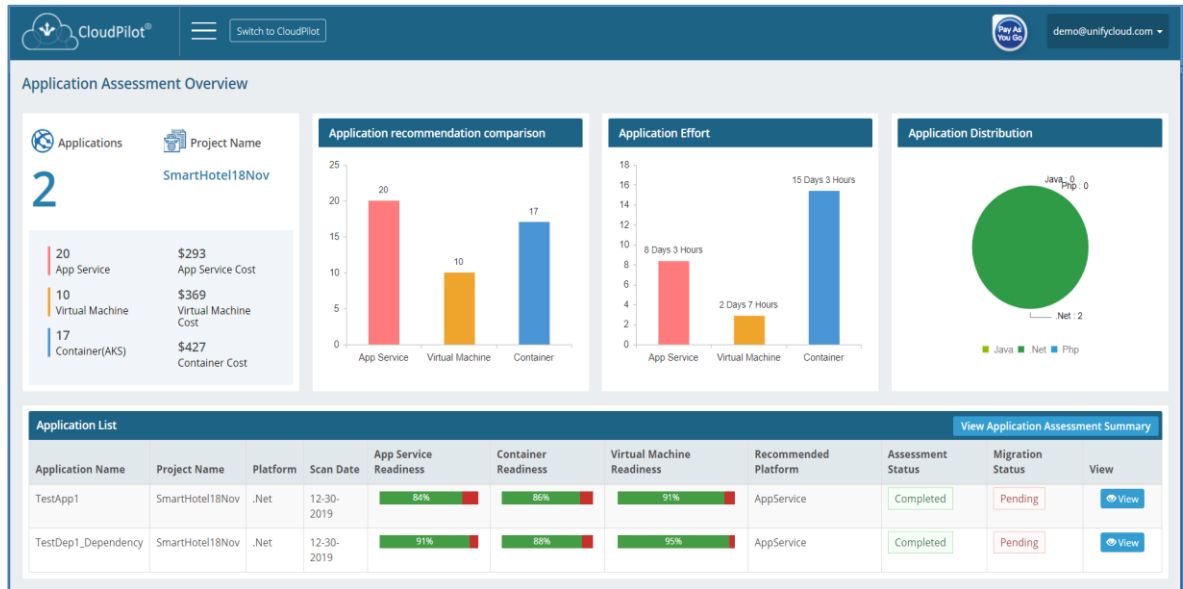
S.No.	Application Name	Project Name	App Service				Container(AKS)				Virtual Machine				Action
			Readiness(%)	Effort	Recomm.	Cost	Readiness(%)	Effort	Recomm.	Cost	Readiness(%)	Effort	Recomm.	Cost	
1	app1	DemoProj123	77	5 Days 0 Hours	13	\$2 ( US\$ 146.40 )	75	8 Days 5 Hours	14	D52 v2 (2 Nodes)( US\$ 213.74 )	82	3 Days 2 Hours	10	D52 v2 ( US\$ 184.46 )	<a href="#">View Report</a>
2	AppDep_Dependency	TestData1234	96	0 Days 3 Hours	2	\$3 ( US\$ 292.80 )	95	4 Days 6 Hours	3	D52 v2 (2 Nodes)( US\$ 213.74 )	98	0 Days 2 Hours	1	D52 v2 ( US\$ 184.46 )	<a href="#">View Report</a>
3	CG	CG	89	4 Days 1 Hours	6	\$3 ( US\$ 292.80 )	89	4 Days 1 Hours	6	D53 v2 (2 Nodes)( US\$ 428.96 )	89	4 Days 1 Hours	6	D53 v2 ( US\$ 368.93 )	<a href="#">View Report</a>
4	Cpsports	demoApp2	77	5 Days 0 Hours	13	\$2 ( US\$ 146.40 )	75	8 Days 5 Hours	14	D52 v2 (2 Nodes)( US\$ 213.74 )	82	3 Days 2 Hours	10	D52 v2 ( US\$ 184.46 )	<a href="#">View Report</a>
5	Data	DemoApp24April	72	10 Days 4 Hours	21	\$2 ( US\$ 146.40 )	72	15 Days 5 Hours	20	D52 v2 (2 Nodes)( US\$ 213.74 )	77	9 Days 2 Hours	17	D52 v2 ( US\$ 184.46 )	<a href="#">View Report</a>
6	Demo DotnetApp	Demo_Pro1	84	4 Days 5 Hours	10	\$3 ( US\$ 292.80 )	81	7 Days 3 Hours	12	D53 v2 (2 Nodes)( US\$ 428.96 )	86	2 Days 6 Hours	9	D53 v2 ( US\$ 368.93 )	<a href="#">View Report</a>
7	Demo1234	DemoProject	77	6 Days 2 Hours	13	\$2 ( US\$ 146.40 )	77	9 Days 3 Hours	13	D52 v2 (2 Nodes)( US\$ 213.74 )	82	3 Days 0 Hours	10	D52 v2 ( US\$ 184.46 )	<a href="#">View Report</a>
8	Demon123BP	BridgePartnerDemo	75	6 Days 3	14	\$2 ( US\$ 146.40 )	75	9 Days 4	14	D52 v2 (2 Nodes)( US\$ 213.74 )	81	3 Days 1	11	D52 v2 ( US\$ 184.46 )	<a href="#">View</a>

21. When User click on the “View” Button from portfolio overview page then User can view the details of assessment of applications.

Assessment List					
Project Name	Uploaded Date	IsProcessed	Project Type	Instance Count	Take Action
MigrationTest	12/30/19	true	application	1	<a href="#">View</a>
TtestProjectJava	12/30/19	true	application	1	<a href="#">View</a>
DBMigrate	12/27/19	true	database	1	<a href="#">View</a>
DbProj	12/27/19	true	database	1	<a href="#">View</a>
DBTest	12/27/19	true	database	1	<a href="#">View</a>
DBTestProj	12/30/19	true	database	1	<a href="#">View</a>
DemoApp24April	12/27/19	true	database	1	<a href="#">View</a>
DemoProj	10/30/19	true	database	1	<a href="#">View</a>
SGPartner_Demo	12/27/19	true	database	1	<a href="#">View</a>
Winartools	12/27/19	true	database	1	<a href="#">View</a>



22. By Clicking the view button User will see the Application Assessment Overview page with cost, recommendations, and efforts.



## 6. Create Multiple Database Assessment Project

1. Enter the project name in the text box and click Create as shown in [Figure 1: Create Project](#)

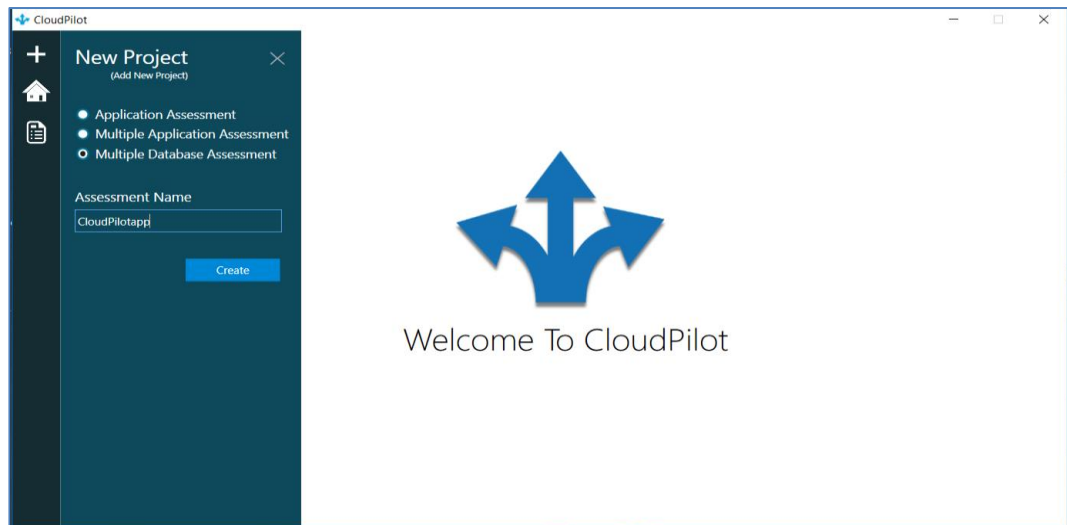


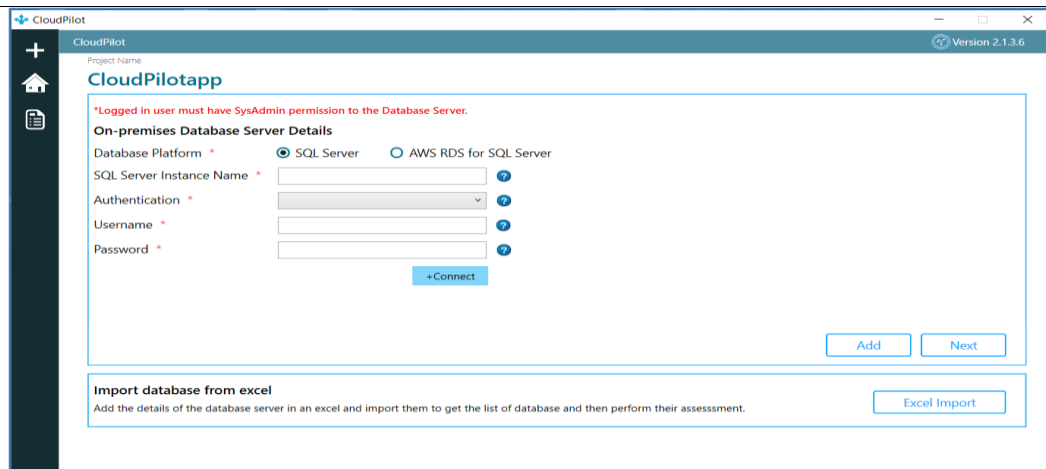
Figure 1: Create Project

### Add Database

**IMPORTANT:** \*Logged in user must have SysAdmin permission to the Database server.

**IMPORTANT:** Microsoft Data Migration Assistant should be installed to assess database. If you haven't downloaded, click on **click here** button to download as shown in [Figure 2: Add Database Details](#).

2. After the installation of Microsoft Data Migration Assistant. Enter the details of your **On-premises Database Server** as shown in [Figure 2: Add Database Details](#).



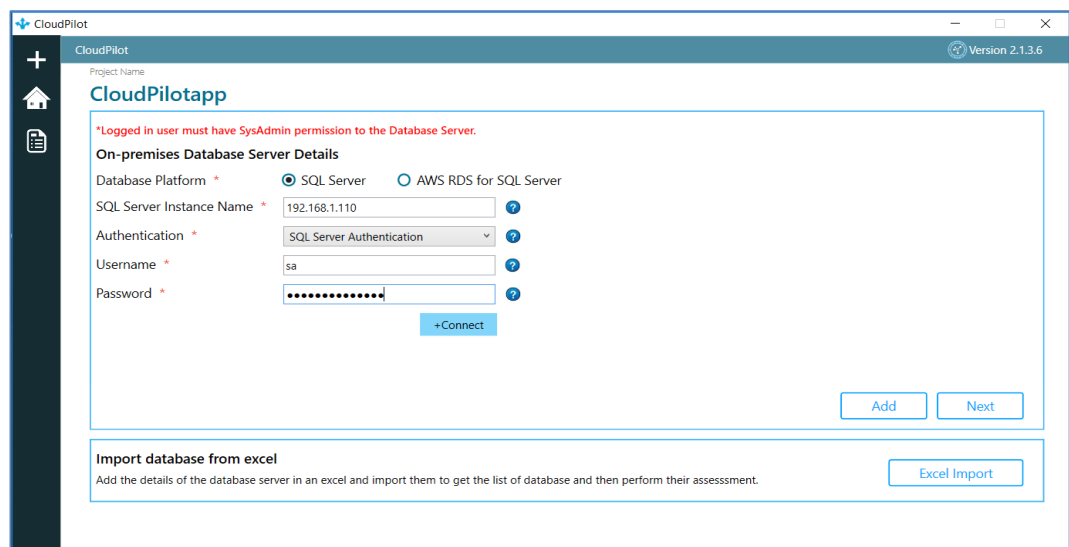
**Figure 2: Add Database Details**

3. Select the desired Database Platform radio button.

### SQL Server – Database Platform

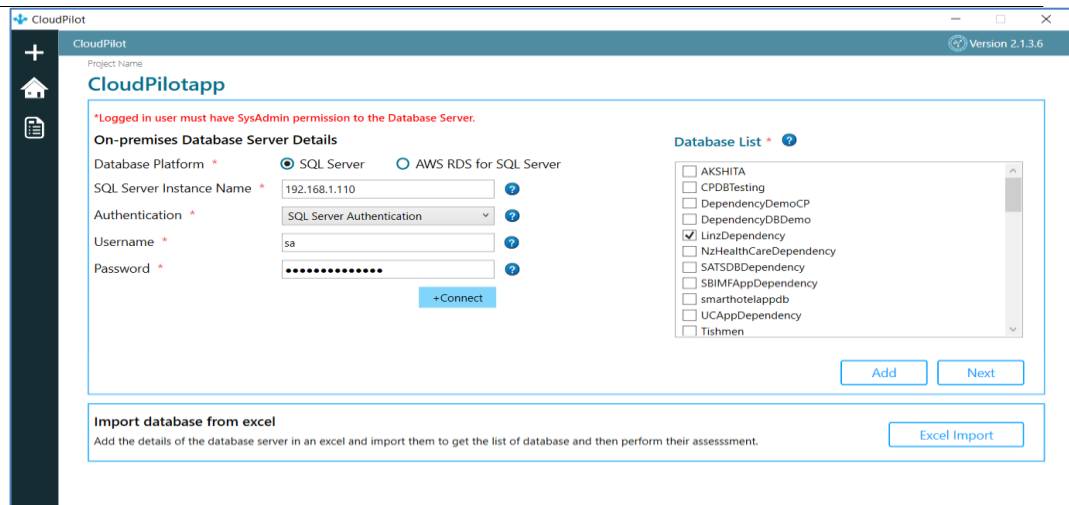
4. Enter Server Name.
5. Select the Authentication to your choice either to **SQL Server Authentication** or Windows Authentication.

**NOTE:** For SQL Server Authentication, you need to enter your credentials and click **+Connect** to connect to the cloud remote server.



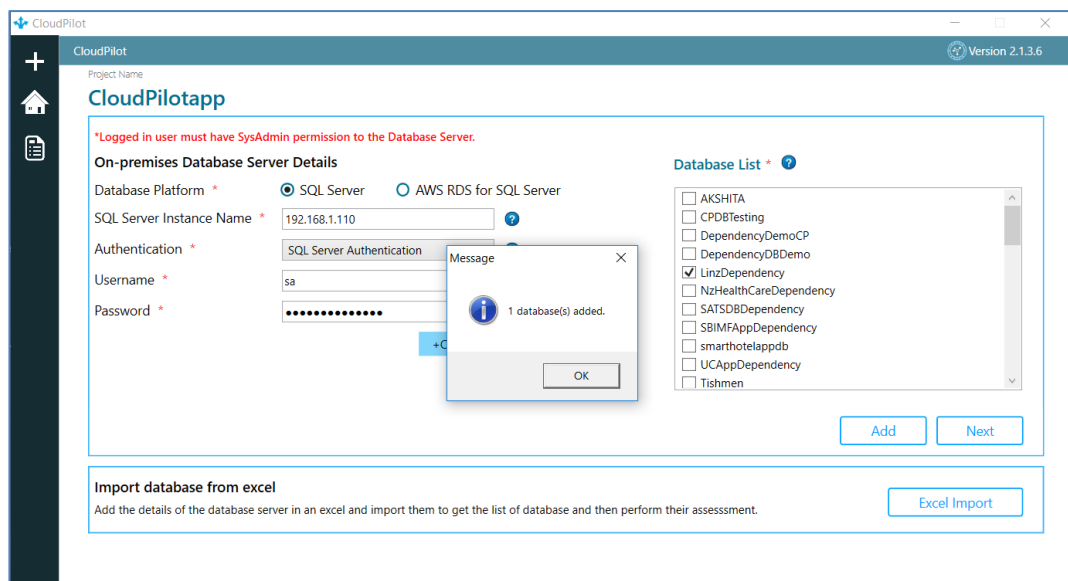
**Figure 3: Add Database Details**

6. Click on **+Connect** and select the database as shown in [Figure 4: Database Added](#)



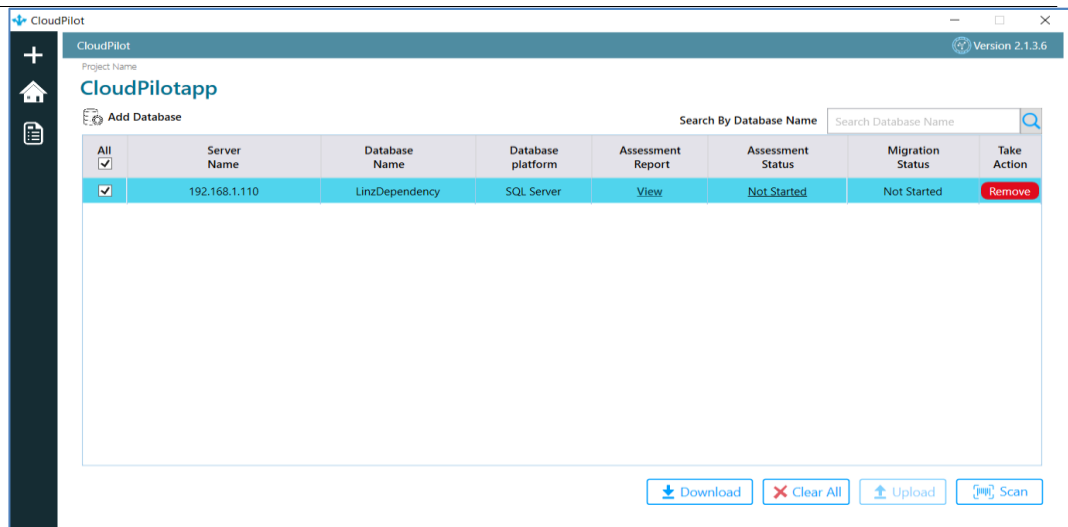
**Figure 4: Database Added**

7. Once the Database details are complete, click **Add**.
8. Click on Next button and you will get a dialog box with a message "1 Database(s) added successfully ", click **OK** as shown in [Figure 5: Database Added Successfully](#)



**Figure 5: Database Added Successfully**

9. To add more databases, select the multiple databases by clicking the checkbox where list of databases is displayed and click Add.



CloudPilot

Project Name: CloudPilotapp

Add Database

Search By Database Name: Search Database Name

All	Server Name	Database Name	Database platform	Assessment Report	Assessment Status	Migration Status	Take Action
<input checked="" type="checkbox"/>	192.168.1.110	LinzDependency	SQL Server	<a href="#">View</a>	Not Started	Not Started	<a href="#">Remove</a>

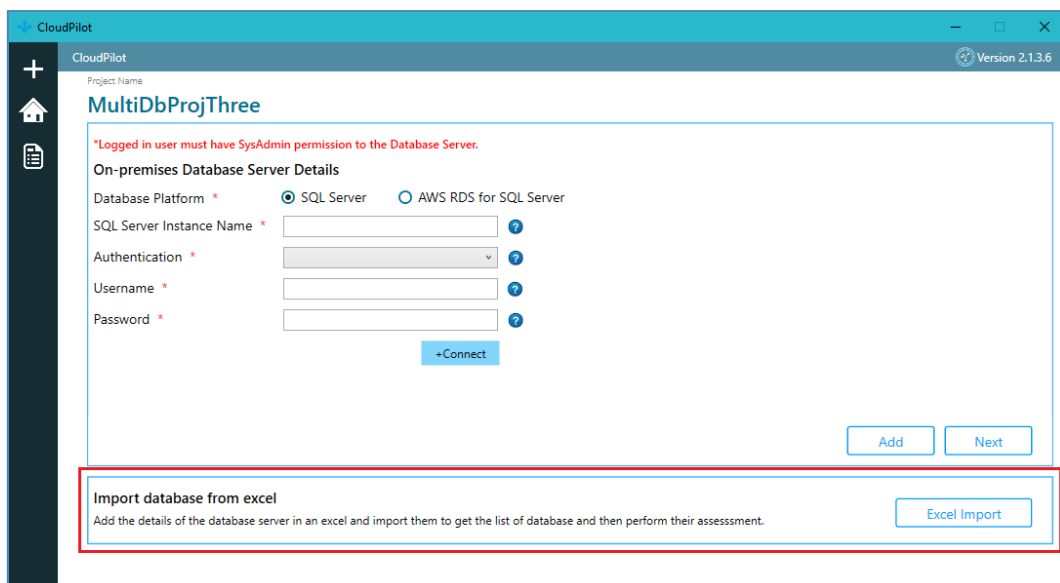
Download Clear All Upload Scan

Figure 6: Database Details

## 10. ANOTHER WAY TO ADD DATABASE

### A. IMPORT EXCEL

1. You can also add databases by importing the excel that contains server information. Click on Excel Import.



CloudPilot

Project Name: MultiDbProjThree

\*Logged in user must have SysAdmin permission to the Database Server.

On-premises Database Server Details

Database Platform \* ☒ SQL Server ☐ AWS RDS for SQL Server

SQL Server Instance Name \*

Authentication \*

Username \*

Password \*

+Connect

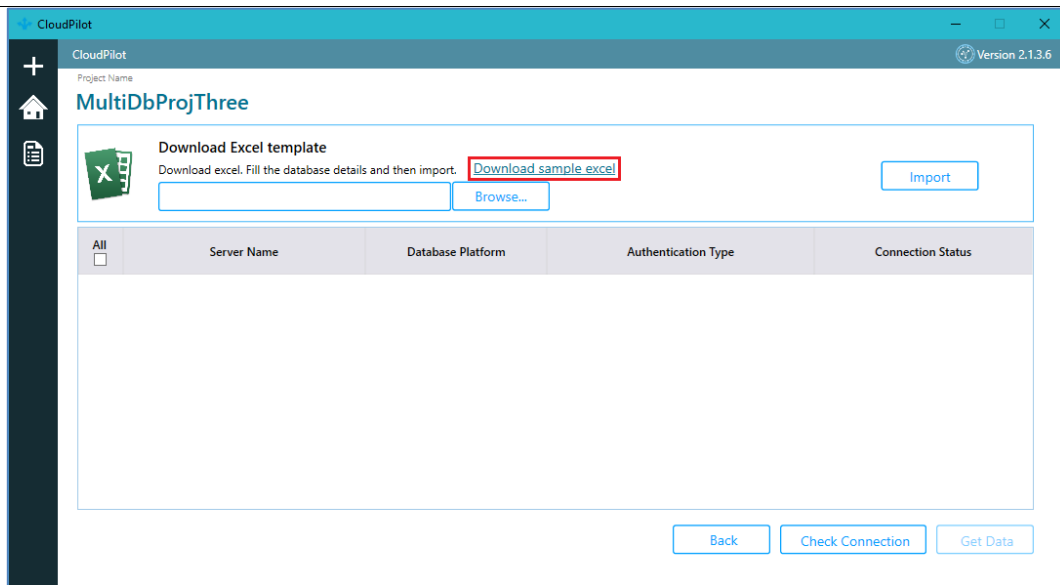
Add Next

Import database from excel

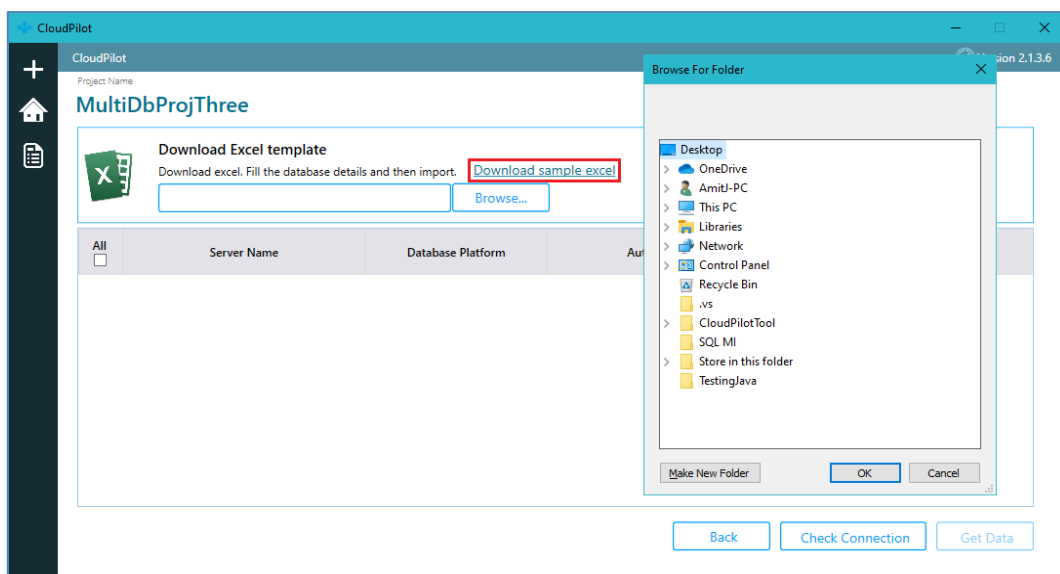
Add the details of the database server in an excel and import them to get the list of database and then perform their assessment.

Excel Import

2. Click on Download sample excel button that appears as hyperlink.

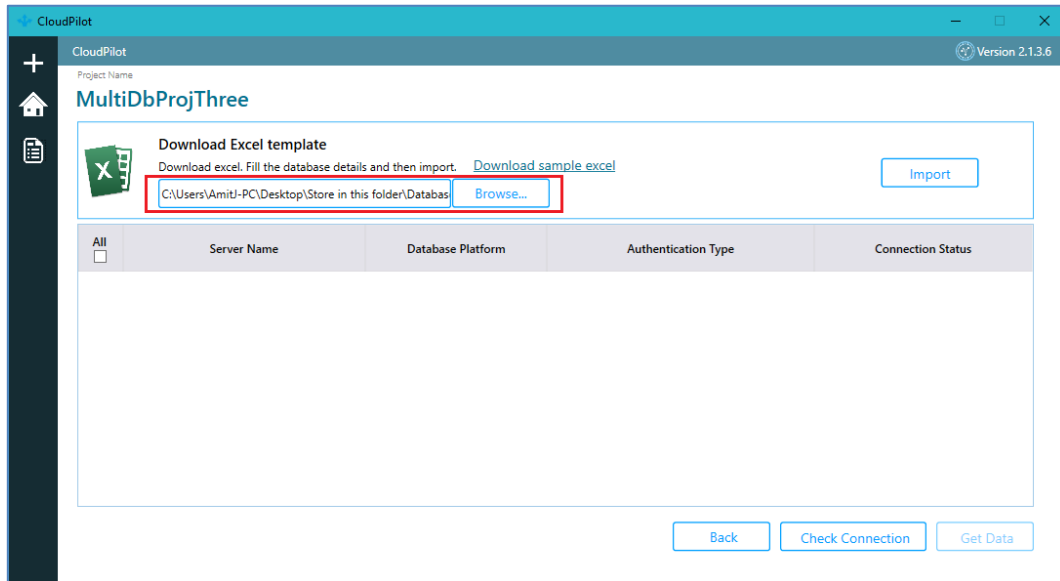


3. Save the excel template to your desired location.

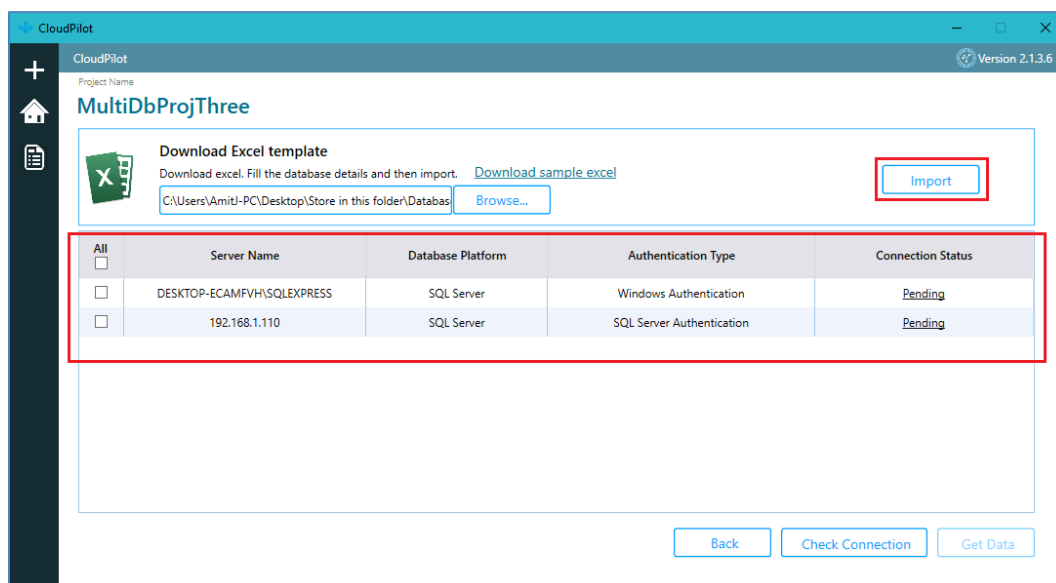


4. Fill in the excel form by providing correct details about server name, authentication type, etc.

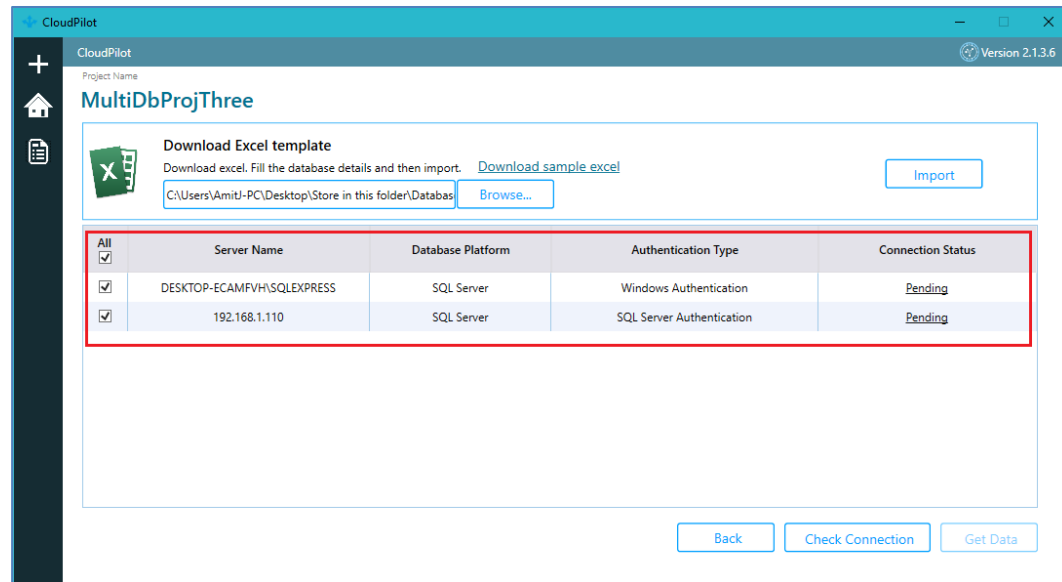
- Click on Browse. Provide the path of excel template which you just filled.



- Click Import. The details are imported from excel to tool and are displayed in the grid.

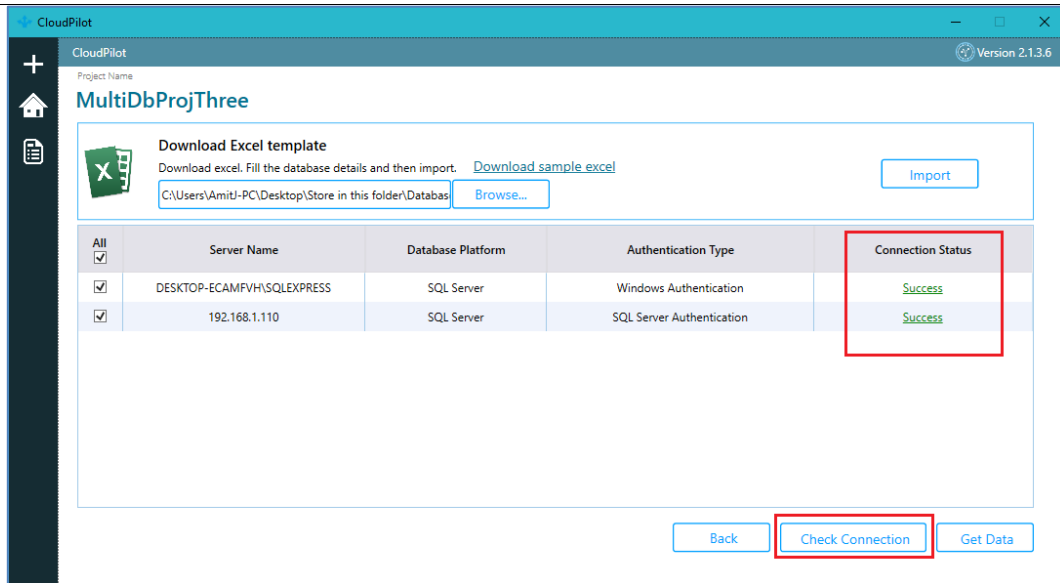


7. Select the server from which you want to import database for scanning.

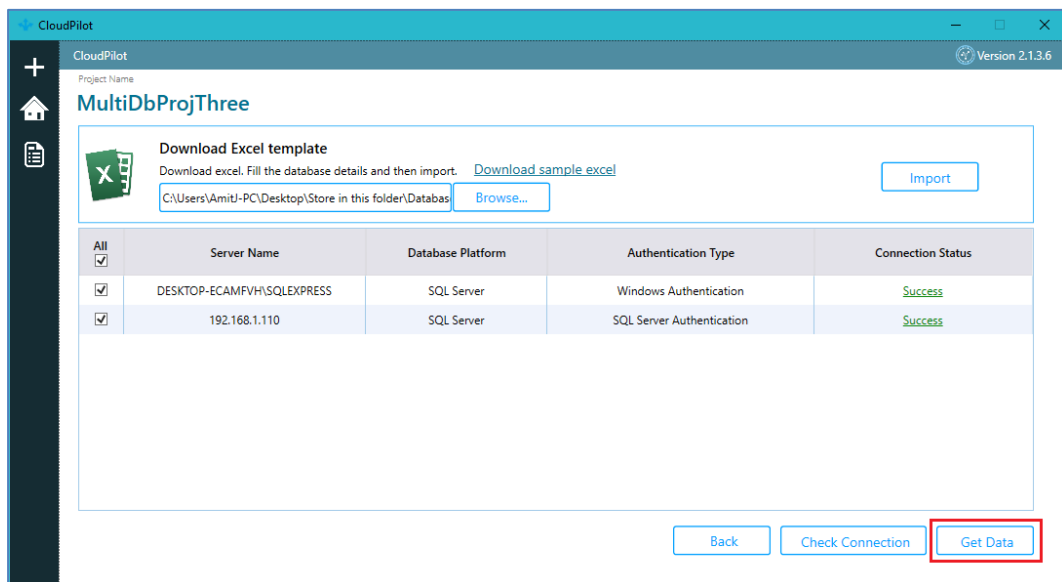


8. Click on the Check Connection button which will check if the connection to the selected server is made or not. If the connections are successful success status will be displayed in green color in the grid.

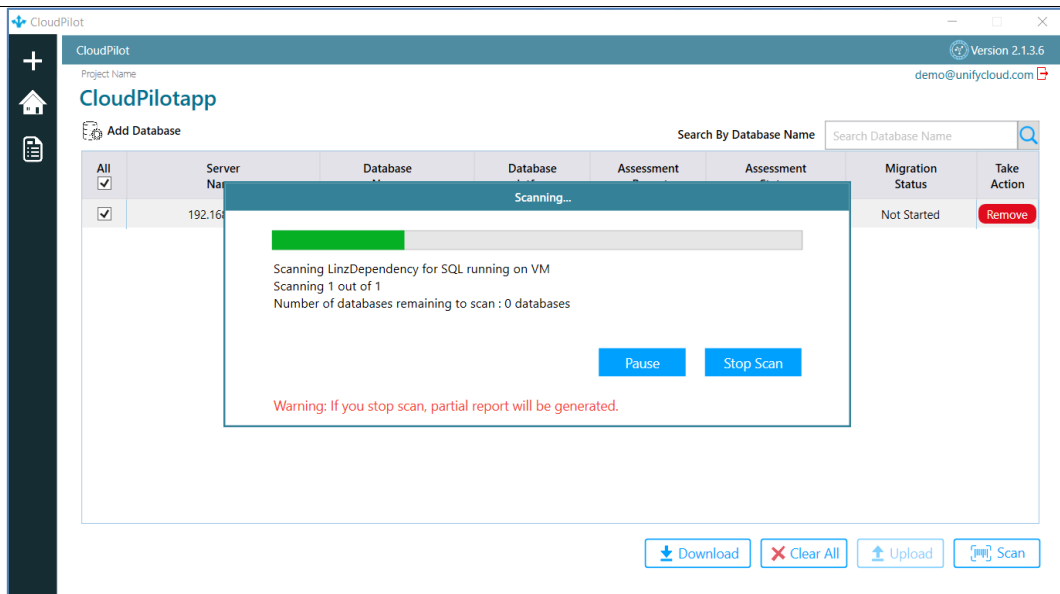




- Click on Get Data to fetch the list of databases from the selected server. The list of databases from those servers will be displayed in the next screen from where you can proceed for the scanning process.

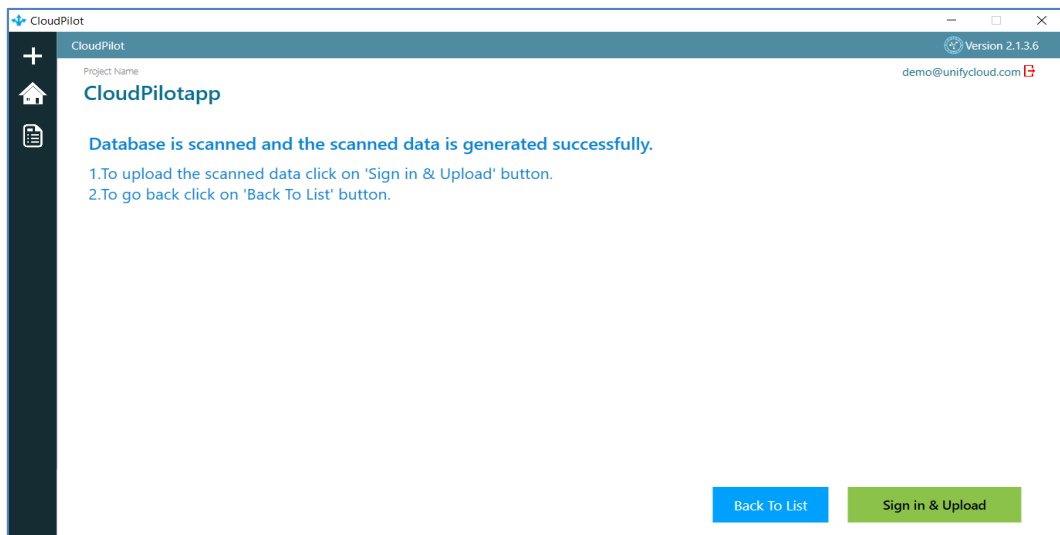


- The Scanning of Selected Databases is in process as shown in [Figure 7: Scanning](#)



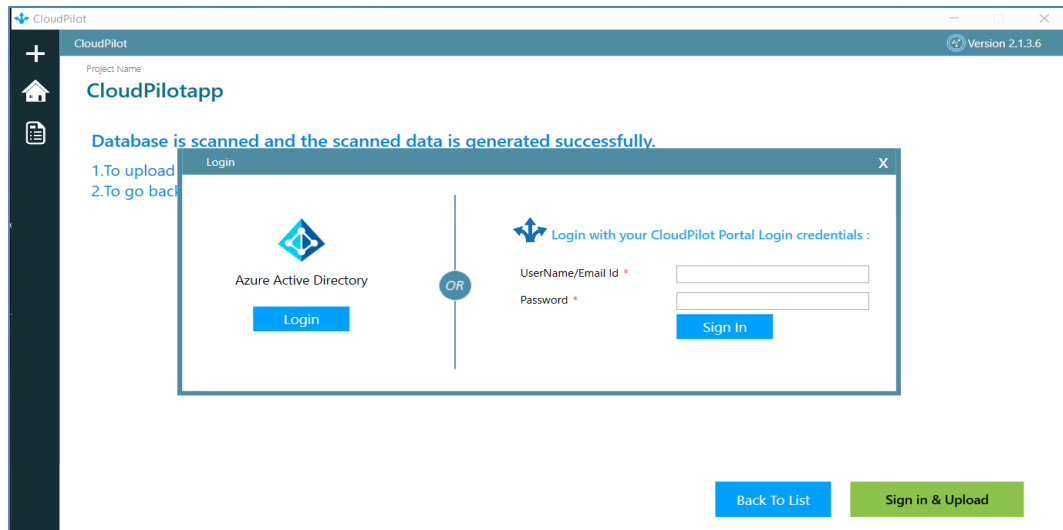
**Figure 7: Scanning**

11. Databases are scanned and the scanned data is generated successfully as shown in [Figure 8: Databases Scanned Successfully](#)



**Figure 8: Database Scanned Successfully**

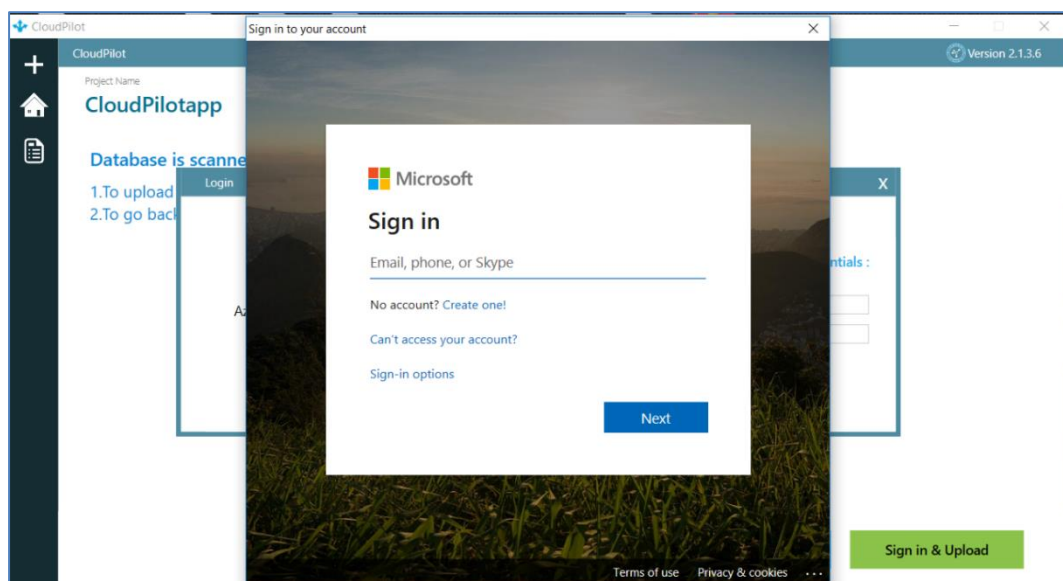
12. Click on the Sign in & Upload button and Login Window will appear on the screen as in [Figure 9: CloudPilot - Sign In](#).



**Figure 9: CloudPilot - Sign In**

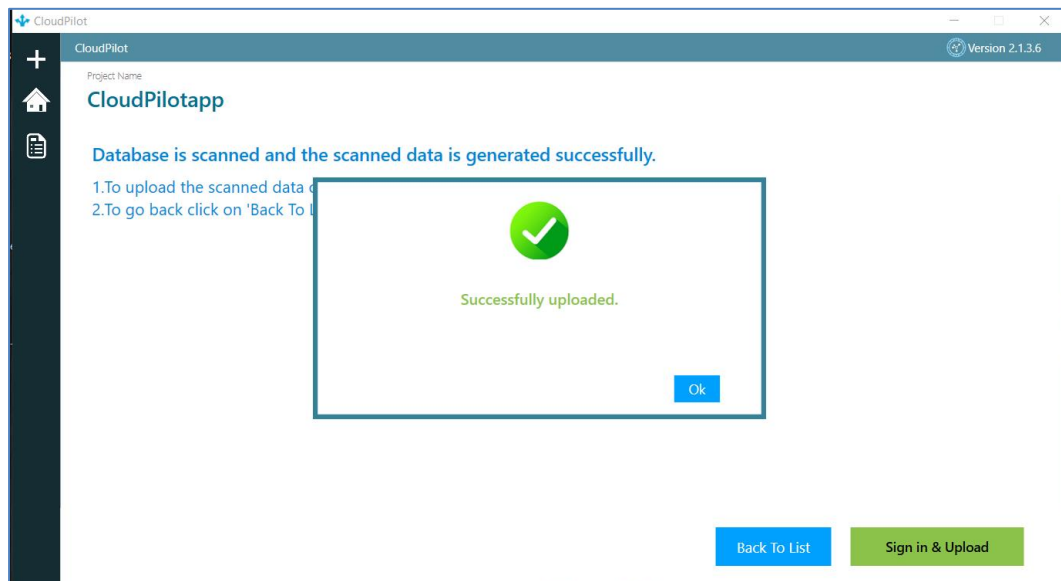
13. Enter your credentials and click **Next** to login as shown in [Figure 10: Login - Enter Credentials](#)

**NOTE:** If you do not have a Microsoft account then you need to create one, click **Create one** button as shown in [Figure 11: Login -Enter Credentials](#).



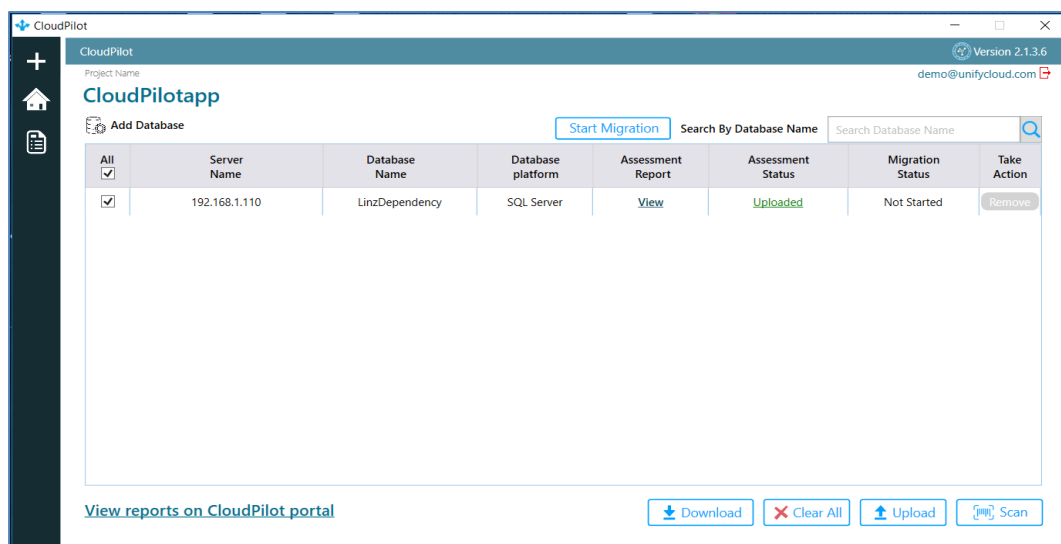
**Figure 10: Login – Enter Credentials**

14. Applications reports are successfully uploaded as shown in [Figure 11: Successfully Uploaded](#)



**Figure 11: Successfully Uploaded**

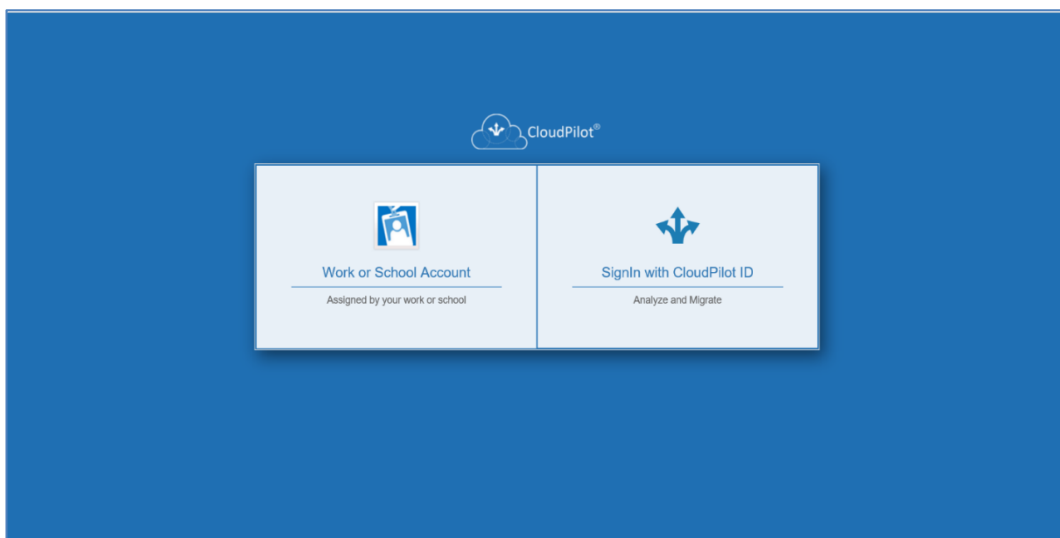
15. Once the assessment report is generated, click Start Migration to migrate the database to Azure as shown in [Figure 12: Database Migration](#)



**Figure 12: Database Migration**

You can click on View Button in the grid to view Assessment report. Click on View reports on CloudPilot portal link and You will be directed to Work or School Account authentication page of the CloudPilot® Portal as shown in [Figure 13: CloudPilot Home Page](#). Log in with your Work or School account on CloudPilot portal and click **Work or School Account** button to access CloudPilot .

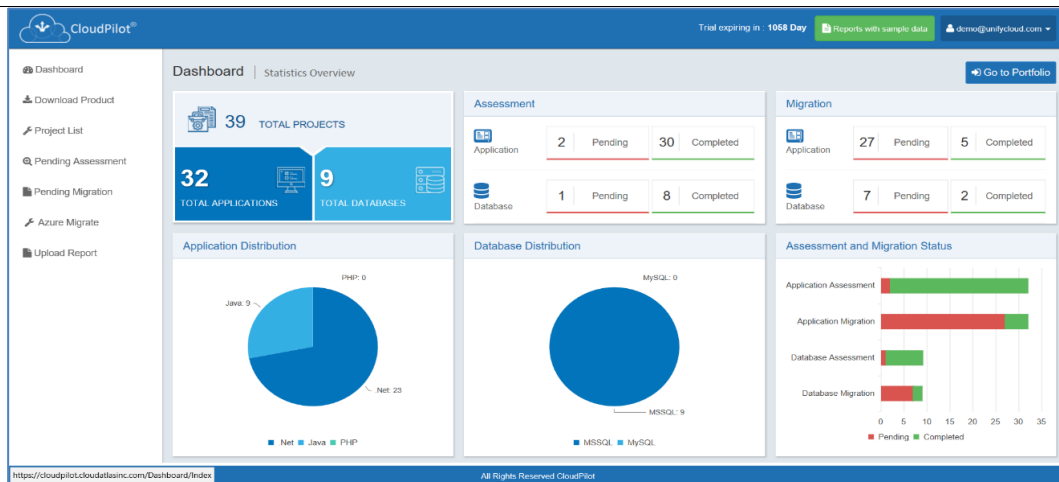
**NOTE:** If you do not have a Work or School account then you can **SignIn with your CloudPilot ID**. To generate a new CloudPilot ID, you can contact our support team on [support@unifycloud.com](mailto:support@unifycloud.com) or [click here](#).



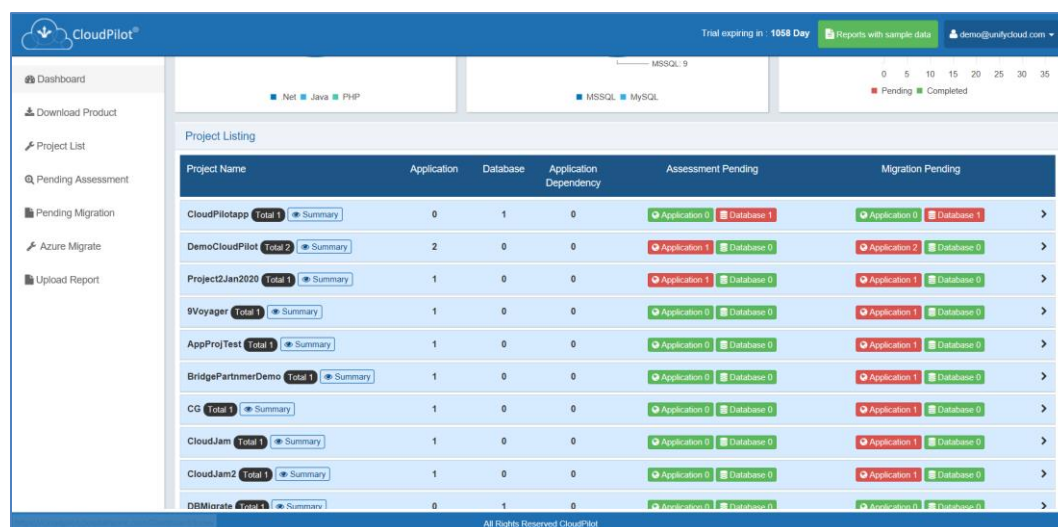
**Figure 13: CloudPilot Home Page**

16. You will login to the CloudPilot Dashboard which contains the statistical overview of the application, database, and application dependencies assessment.

**NOTE:** You need to implement all the recommendations to remediate your application, database and application dependencies.



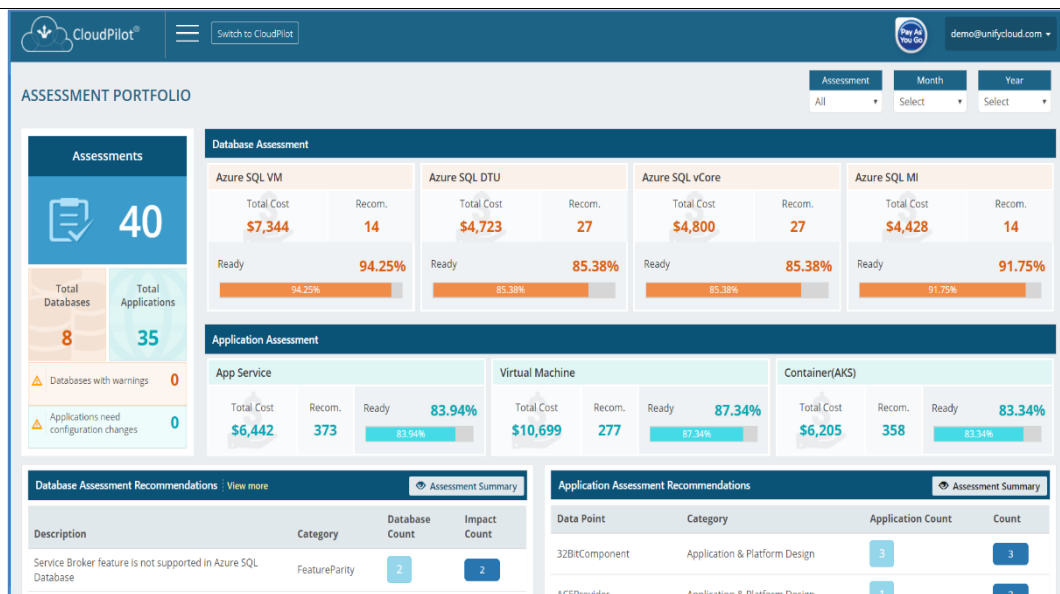
17. Click Analysis button as shown in [Figure 14: Analysis Dashboard](#)



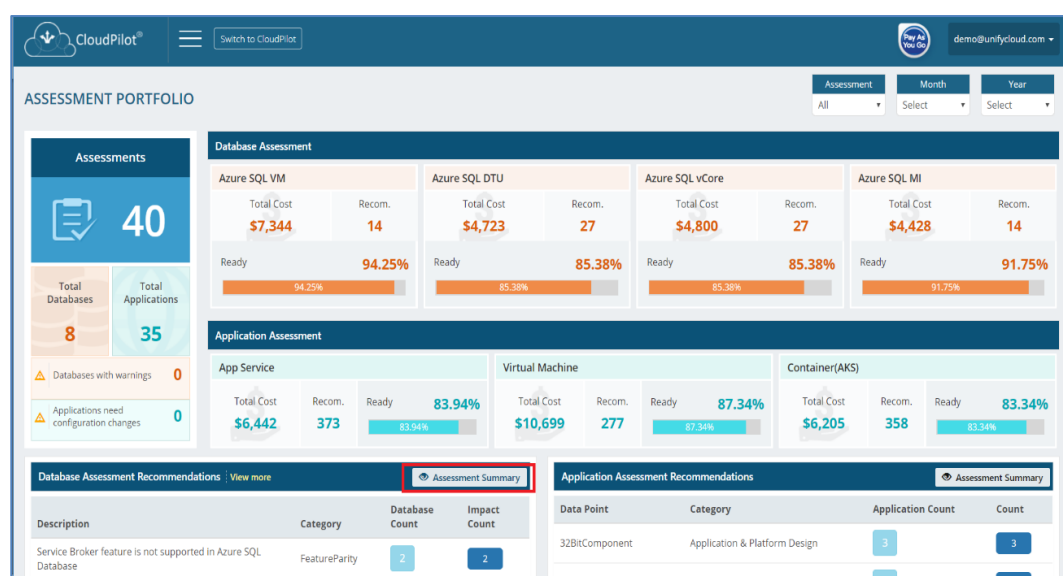
Project Name	Application	Database	Application Dependency	Assessment Pending	Migration Pending
CloudPilotapp <small>Total 1</small> <a href="#">Summary</a>	0	1	0	Application 0 Database 1	Application 0 Database 1
DemoCloudPilot <small>Total 2</small> <a href="#">Summary</a>	2	0	0	Application 1 Database 0	Application 2 Database 0
Project2Jan2020 <small>Total 1</small> <a href="#">Summary</a>	1	0	0	Application 1 Database 0	Application 1 Database 0
9Voyager <small>Total 1</small> <a href="#">Summary</a>	1	0	0	Application 0 Database 0	Application 1 Database 0
AppProTest <small>Total 1</small> <a href="#">Summary</a>	1	0	0	Application 0 Database 0	Application 1 Database 0
BridgePartnerDemo <small>Total 1</small> <a href="#">Summary</a>	1	0	0	Application 0 Database 0	Application 1 Database 0
CC <small>Total 1</small> <a href="#">Summary</a>	1	0	0	Application 0 Database 0	Application 1 Database 0
CloudJam <small>Total 1</small> <a href="#">Summary</a>	1	0	0	Application 0 Database 0	Application 1 Database 0
CloudJam2 <small>Total 1</small> <a href="#">Summary</a>	1	0	0	Application 0 Database 0	Application 1 Database 0
DBMigrate <small>Total 1</small> <a href="#">Summary</a>	0	1	0	Application 0 Database 1	Application 0 Database 1

**Figure 14: Analysis Dashboard**

18. In the Dashboard on the top right corner click on Go to Portfolio. You will be redirected to CloudPilot Portfolio Dashboard where user can see the Assessment list of all application and database those has been scanned/uploaded into the portal.



19. Click on the Assessment Summary button then the user will see the Assessment details of all the databases.



Database assessment summary on different azure service.

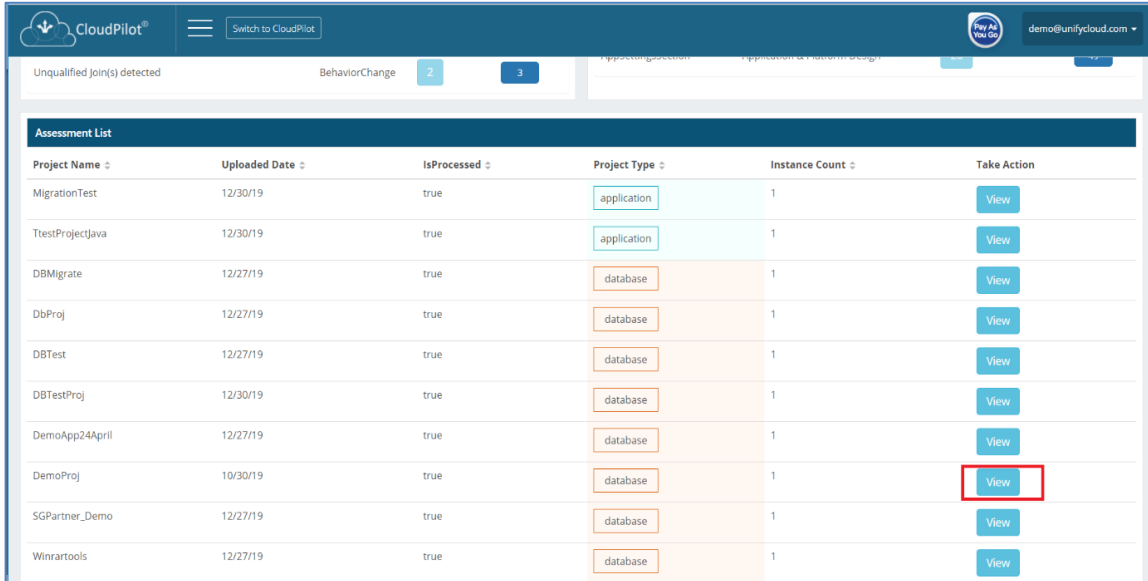
Database Assessment Summary																
Total Databases : 8																
S.No.	Database Name	Server Name	Database Name	Project Name	Azure SQL								SQL Vir			
					Readiness(%)	Effort	Recom. /Warning	Cost(DTU)	Storage Cost(DTU)	Total Cost(DTU)	Cost(vCore)	Storage Cost(vCore)	Total Cost(vCore)	Readiness(%)	Effort	Reco. /War
1	DBTesting	192.168.1.110	DBTestProj	16	63	12 Days 2 Hours	7	\$6 ( US\$ 590.36 )	0.00	\$6 ( US\$ 590.36 )	2 vCore ( US\$ 369.20 )	0.00	2 vCore ( US\$ 369.20 )	80	10 Days 2 Hours	6
2	smarthotel	DELPC14	DBTest	16	63	17 Days 2 Hours	10	\$6 ( US\$ 590.36 )	0.00	\$6 ( US\$ 590.36 )	4 vCore ( US\$ 738.39 )	0.00	4 vCore ( US\$ 738.39 )	87	2 Days 2 Hours	2
3	smarthotel_CloudReady	DELPC14	DBMigrate	16	100	0 Days 0 Hours	0	\$6 ( US\$ 590.36 )	0.00	\$6 ( US\$ 590.36 )	4 vCore ( US\$ 738.39 )	0.00	4 vCore ( US\$ 738.39 )	100	0 Days 0 Hours	0
4	LeetCode	LAPTOP-OGGSTMCSQLEXPRESS	DemoApp24April	5	100	0 Days 0 Hours	0	\$6 ( US\$ 590.36 )	0.00	\$6 ( US\$ 590.36 )	4 vCore ( US\$ 738.39 )	0.00	4 vCore ( US\$ 738.39 )	100	0 Days 0 Hours	0
5	smarthotel	PILOTMT-CVMSQLEXPRESS	DemoProj	16	63	13 Days 6 Hours	8	\$6 ( US\$ 590.36 )	0.00	\$6 ( US\$ 590.36 )	4 vCore ( US\$ 738.39 )	0.00	4 vCore ( US\$ 738.39 )	87	2 Days 2 Hours	2

Recommendation list for all the assessments on diiferent Assessment target.

Database Recommendation Summary						
Filter by Assessment Target: All						
S.No.	Project Name	Title	Category	Database Count	Impacted Object	Assessment Target
1	DBTest	Azure SQL Database does not support trace flags	FeatureParity	1	1	AzureSqlDatabase
2	DBTest	Azure SQL Database doesn't support Analysis Services; migrate to Azure Analysis Services	FeatureParity	1	1	AzureSqlDatabase
3	DBTest	Cross database queries using three- or four-part names not supported in Azure SQL Database	MigrationBlocker	1	1	AzureSqlDatabase
4	DBTest	Cross-database references not supported in Azure SQL Database	FeatureParity	1	1	AzureSqlDatabase
5	DBTest	Objects found containing references to unresolved objects, which are not supported in Azure SQL Database	MigrationBlocker	1	4	AzureSqlDatabase
6	DBTest	One or more objects contain statements that are not supported in Azure SQL Database	MigrationBlocker	1	1	AzureSqlDatabase
7	DBTest	REVOKE object permissions statement is not supported in Azure SQL Database	MigrationBlocker	1	1	AzureSqlDatabase
8	DBTest	REVOKE object permissions statement is not supported in Azure SQL Database Managed Instance	MigrationBlocker	1	1	ManagedSqlServer
9	DBTest	SQL Server Reporting Services is not supported in Azure SQL Database	FeatureParity	1	1	AzureSqlDatabase
10	DBTest	Syntax issue on the source server	BreakingChange	1	2	ManagedSqlServer
11	DBTest	Syntax issue on the source server	BreakingChange	1	2	SQLonVM
12	DBTest	Syntax issue on the source server	MigrationBlocker	1	2	AzureSqlDatabase
13	DBTest	Unqualified Join(s) detected	BehaviorChange	1	3	AzureSqlDatabase
14	DBTest	Unqualified Join(s) detected	BehaviorChange	1	3	ManagedSqlServer
15	DBTest	Unqualified Join(s) detected	BehaviorChange	1	3	SQLonVM
16	DBTestProj	[70593] REVOKE object permissions statement is not supported in Azure SQL Database	MigrationBlocker	1	1	AzureSqlDatabase
17	DBTestProj	[70593] REVOKE object permissions statement is not supported in Azure SQL Database Managed Instance	MigrationBlocker	1	1	ManagedSqlServer

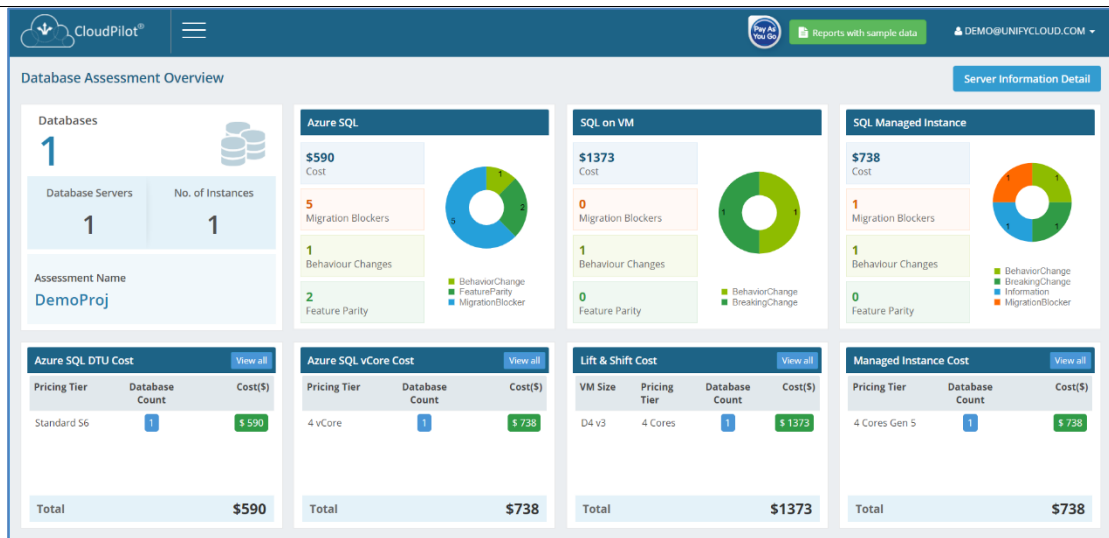


20. When User click on the “View” Button from portfolio overview page then User can view the details of assessment of databases.



Project Name	Uploaded Date	IsProcessed	Project Type	Instance Count	Take Action
MigrationTest	12/30/19	true	application	1	<a href="#">View</a>
TtestProjectJava	12/30/19	true	application	1	<a href="#">View</a>
DBMigrate	12/27/19	true	database	1	<a href="#">View</a>
DbProj	12/27/19	true	database	1	<a href="#">View</a>
DBTest	12/27/19	true	database	1	<a href="#">View</a>
DBTestProj	12/30/19	true	database	1	<a href="#">View</a>
DemoApp24April	12/27/19	true	database	1	<a href="#">View</a>
DemoProj	10/30/19	true	database	1	<a href="#">View</a>
SGPartner_Demo	12/27/19	true	database	1	<a href="#">View</a>
Winartools	12/27/19	true	database	1	<a href="#">View</a>

21. By Clicking the view button User will see the Database Assessment Overview page with cost, recommendations, and effort on different platforms.



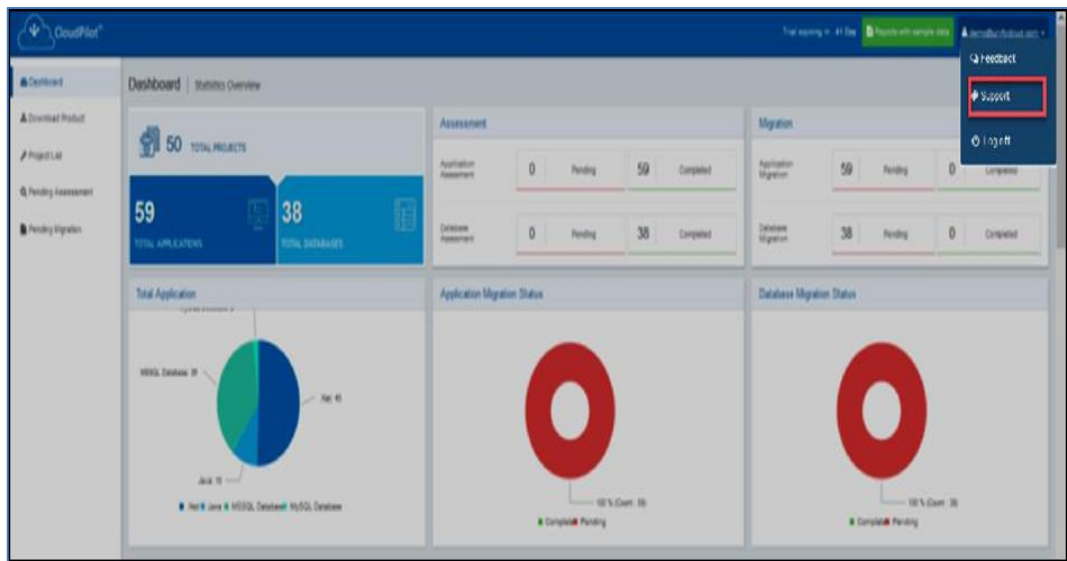
## **DATABASE MIGRATION**

For the migration of database follow the steps as described in Section 4.5.

## 7.Contact

### 7.1 Support

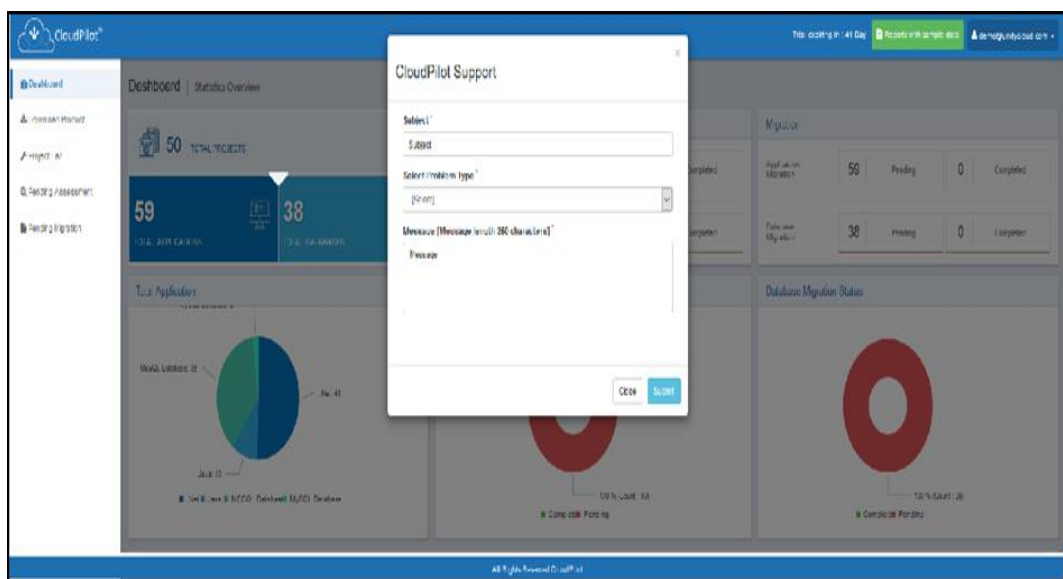
1. For any problems or clarifications, click **Support** on the top right side of CloudPilot Dashboard dropdown list as shown in [Figure 99: Support](#).



**Figure 99: Support**

A CloudPilot Support window appears as shown in [Figure 100: CloudPilot Support](#).

**Figure 100:  
CloudPilot  
Support**

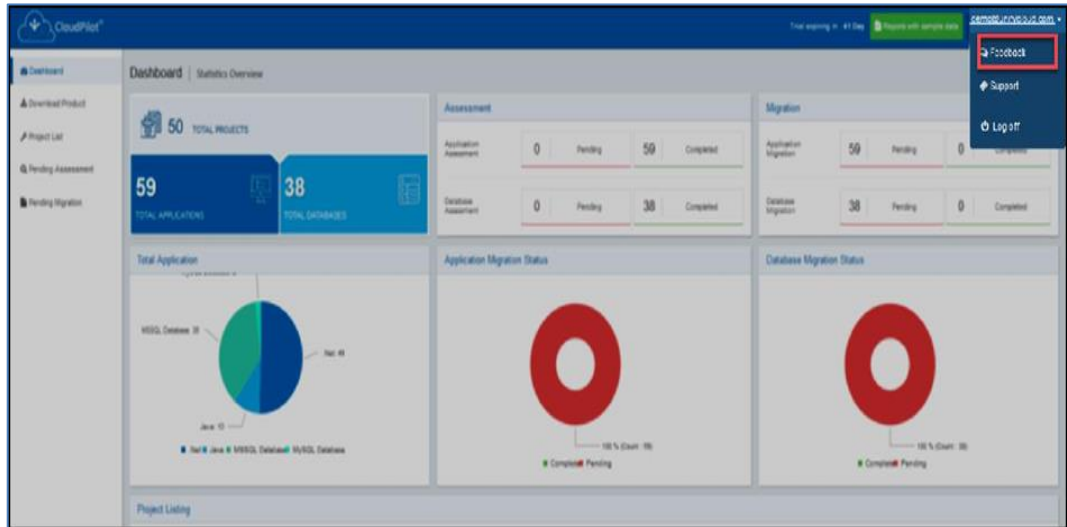


1. Enter the value for **Subject**.
2. Select the **Problem Type**.
3. Type your message in the **Message box**.
4. Click **Submit** when complete.

**NOTE:** A system-generated mail will be sent to your registered Email - Id with the tracking number of your support ticket.

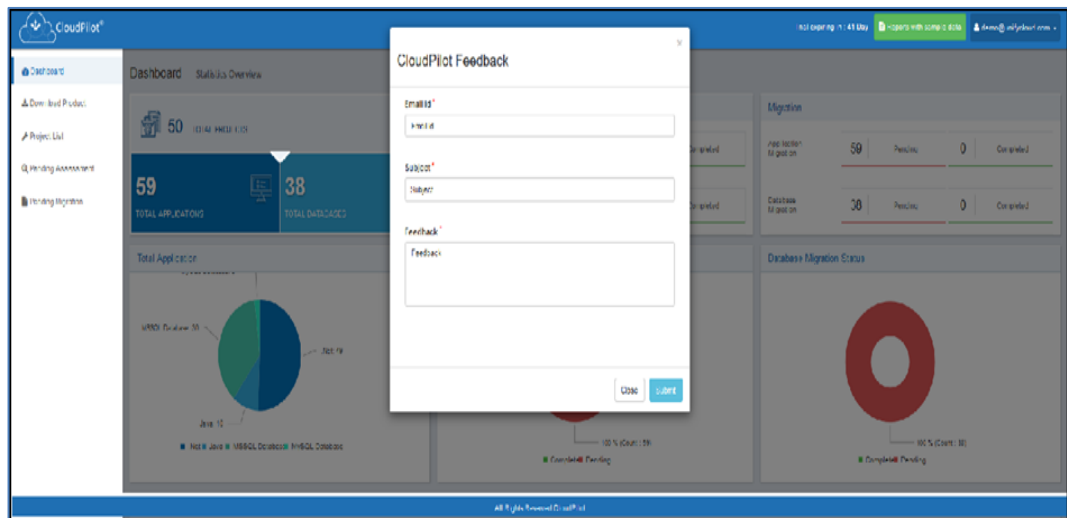
## 7.2 Feedback

1. For any feedback, click **Feedback** on the top right side of CloudPilot Dashboard dropdown list as shown in [Figure 101: Feedback](#).



**Figure 101: Feedback**

A CloudPilot Feedback window appears as shown in [Figure 102: CloudPilot Feedback](#).



**Figure 102: CloudPilot Feedback**

2. Enter your valid **Email ID**.
3. Enter the value for **Subject**.
4. Type your message in the **Feedback box**.
5. Click **Submit** when complete.

**NOTE:** A system-generated mail will be sent to your registered Email - Id with the tracking number of your support ticket.