## Document History

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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 Work or School Account authentication page of the CloudPilot® Portal as shown in Figure 1: CloudPilot Home Page.

![Figure 1: CloudPilot Home Page](image-url)
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 **Sign in with your CloudPilot ID**. To generate a new CloudPilot ID, you can contact our support team on support@unifycloud.com or click here.

![Figure 2: Work or School Account](image)

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](image)
Once you have signed in the CloudPilot portal, report with sample data will appear.

4. 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](image-url)
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 **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](image)

7. Once 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](image)
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/](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](image)

A welcome screen with the title CloudPilot is displayed as shown in Figure 9: Welcome Screen.

![Figure 9: Welcome Screen](image)
2. To start with a New Project, click the + tab on the left-side of the CloudPilot Migration Tool as shown in Figure 10: New Project.

![Figure 10: New Project](image)

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](image)
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**.

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.

---

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**.
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.

---

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.
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](image1)

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](image1)

**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.**

![Figure 19 A: Add Application Details -PHP](image)

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](image)
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.
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](image)

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**.

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**.
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.

   ![Figure 23: Authentication – Windows](image1)

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.

   ![Figure 24: Select Database Name](image2)
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: Select Database Name](image)

**AWS RDS For SQL Server -Database Platform**

![Figure 25 (a): Database Added](image)

1) Select the Option AWS RDS for SQLServer. Enter the Server Name. Enter your credentials and click +**Connect** to connect to the cloud remote server as shown in **Figure 25(a): AWS RDS for SQLServer Database Added**.

2) Select the specific Database Name check box as shown in **Figure 25(a): AWS RDS for SQLServer Database Added**.
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(b): AWS RDS for SQLServer Database Added.

![Figure 25 (b): Database Added](image)

MySQL - Database Platform

5) 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 .

6) 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.
7) Once the Database details are complete, click **Add & Next**.

8) You will get a dialog box with a message “1 Database(s) added successfully”, click **OK** as shown in **Figure 27: MySQL Database Added**.

---

**Oracle- Database Platform**

1. Enter the Server Name.

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

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
3.1.3 Add Application Dependencies

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 28: Add Application Dependencies](#).

**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](#).

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 29: Application Dependencies - Source Code Location.

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

Figure 29: 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](image)

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](image)
3.2 SCANNING APPLICATION, DATABASE & SERVICES

3.2.1 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](image)

**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](image)
3.2.2 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.

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

Figure 38: Database – Scan

Figure 38 A: Database Infrastructure Survey – Questionnaire
3.2.2 Application Dependencies Scan

1. 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.

![Figure 39: Services – Scan](image)

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.
3.3 UPLOAD SCANNED DATA

3.3.1 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.

![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**.
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.

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

   **IMPORTANT**: You need to click **Back** to view the status of the assessment files uploaded.
3.3.2 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](image)

   A window will display with 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](image)
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.

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.
3.3.3 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](image)

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

OR

2. 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](image)
3.4 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 SignIn 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: SignIn with CloudPilot ID – Assessment Reports](image-url)
You will login to the CloudPilot Dashboard which contains the statistic 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.

2. Click Analysis button as shown in 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**.

![Figure 52: List of Questionnaire](image)

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**.

![Figure 53: Azure Compliance Certificate](image)
3.4.1 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](image)

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.
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.

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.
Application Dependency Tree

Refer to Figure 58: Project Dependency Tree: This report shows the dependency of the application component.

![Project Dependency Tree](image)

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.

![Security Recommendation](image)

Figure 59: Security Recommendation
Azure Compliance Report

Refer to Figure 60: Azure Compliance Report: This report shows the compliance status of the services.

![Azure Compliance Report](image)

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.

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.

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/developer.
Security Recommendation

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

---

**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.

![List of Questionnaire](image)

*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**

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](image)

**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](image)
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.
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.

PostGreSQL Report
The recommendation report for database PostGreSQL contains recommendation setting for impacted objects, total efforts, and total recommendations.
Best Practices
This report shows the list of security-related recommendations for database security readiness.

Best Practice Security Recommendation
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.

2. 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](image)
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](image-url)
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

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](image)

**Login Details with Active Directory**

You can sign in with your Active Directory and you will redirect to **Figure 71: Azure AD Login**.

![Figure 71: Azure AD Login](image)

**Instructions:**
1. Login with the Id that has atleast one subscription.
2. The logged in user must have either contributor or owner role in the subscription selected for migration.
3. Have a good and decent internet speed.
Azure Subscription

A window displays with “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
2. Log in with your credentials and click **Sign In** as shown in **Figure 74: Microsoft Azure Log In Details**.

![Microsoft Azure Login](image1)

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

3. Select the Azure Subscription as per your account as shown in **Figure 75: Azure Subscriptions**.

![Azure Subscriptions](image2)

**Figure 75: Azure Subscriptions**

**NOTE**: If you don’t have any subscription try with another account.
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](image)

5. Select the Visual Studio Enterprise – MPN and click Next as shown in Figure 77: Select Azure Subscription.

![Figure 77: Select Azure Subscription](image)
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.

![Figure 78: Resource Group List](image)

2. Enter the App Service name in Figure 79: App Service Name.

![Figure 79: App Service Name](image)
3. Select App Service Plan/Location from the dropdown list. If you want to create new App Service Plan click on + Create New as shown in Figure 80: App Service Plan.

![Figure 80: App Service Plan/Location](image)

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](image)
“Creation of New Azure App Service” is in progress as shown in Figure 81: New Azure App Service - In Progress.

Figure 81: Creating New Web App - In Progress

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](image)

**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](image)

**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](image)

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.

![Figure 85: Resource Group List](image)

NOTE: Resource group are created as per your Azure subscription plans.
4. Enter the Registry name and select the Location from the dropdown list as shown in Figure 86: Location List.

![Figure 86: Location List](image)

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.

![Figure 87: Container Registry Details Added](image)
6. Once complete, click **Create**. Azure Container Registry will be created immediately within 5-10 seconds.

![Azure Container Registry creation](image)

**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.

![Container Repository Options](image)

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.

![Container Registry Details](image)

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.

![Azure Container Instance Deployment](image)

*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](image)

**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](image)

1. To view the post-migration report, click on ‘Show Report’ button.
2. To monitor the application with CloudSupervisor, click on ‘Monitor with CloudSupervisor’ button.
3. To close this screen and go back to home click on ‘Go To Home’ button.
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**.
You will be redirected to Post application migration report as shown in Figure 93: Application Migration Report. The Post application migration report consist of the application details, deployment details with the total time duration of application deployment and also provide additional security recommendations.

![Application Migration Report](image)

Figure 93: Application Migration Report

4.4 MONITOR APPLICATION USING CLOUDSUPERVISOR

1. For detail reports on migration, click Monitor Application with CloudSupervisor® as shown in Figure 94: Monitor Application with CloudSupervisor.

![Monitor Application with CloudSupervisor](image)

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/](https://www.cloudatlasinc.com/cloudsupervisor/)

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 95: CloudSupervisor® - Dashboard**

**Figure 96: CloudPilot Tool Window - Migration Completed**
You can click on ‘Completed’ to view the migration details.

![CloudPilot Tool Window - Migration Completed](image1)

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

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

![View Migration Details - Migration Completed](image2)

**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 **Start Migration** button on the grid for the database you want to migrate.
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 environment 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 in order 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](image)

2. Enter the project name in the text box and click Create as shown in Figure 2: Create Project.

![Figure 2: Create Project](image)

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](image)

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](image)

**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](image)

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](image)

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**
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](image)

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](image)

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](image)

b. Fill 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](image)

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

e. The list of applications will be displayed in 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 color otherwise red as shown in Figure 6 F: Application Details-Validate Path.

g. Click Next.

h. Select the specific check box for Application you want to scan as shown in Figure 6 G: Application Details.
9. Select the specific check box for 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](image)

12. Click on Sign in & Upload button and Login Window appear on the screen as in Figure 9: Login.

![Figure 9: Login](image)
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](image)

14. The files are being uploaded to CloudPilot Portal as shown in: **Figure 11: Uploading report**

![Figure 11: Uploading report](image)
15. Applications reports are successfully uploaded as shown in **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 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 Sign in with your CloudPilot ID. To generate a new CloudPilot ID, you can contact our support team on support@unifycloud.com or click here.
17. You will login to the CloudPilot Dashboard which contains the statistic 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 Assessment Summary button then user will see the Assessment summary of all the Applications.
21. When User click on the “View” Button from portfolio overview page then User can view the details of assessment of applications.
22. By clicking the view button, the 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.

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.
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.

6. Click on **+Connect** and select the database as shown in [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](image)

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

![Figure 6: Database Details](image)

10. ANOTHER WAY TO ADD DATABASE

   A. IMPORT EXCEL
1. You can also add database by importing the excel that contains server information. Click on Excel Import.

2. Click on Download sample excel button that appears as hyperlink.
3. Save the excel template to your desired location.

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

5. Click on Browse. Provide the path of excel template which you just filled.
6. 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 Check Connection button which will check if the connection to selected server be made or not. If the connections are successful success status will be displayed in green color in the grid.

9. 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.
10. The Scanning of selected Databases is in process as shown in Figure 7: Scanning

![Figure 7: Scanning](image1)

11. Databases are scanned and the scanned data is generated successfully as shown in Figure 8: Databases Scanned Successfully

![Figure 8: Database Scanned Successfully](image2)
12. Click on Sign in & Upload button and Login Window will appear on the screen as in Figure 9: CloudPilot - Sign In.

![Figure 9: CloudPilot - Sign In](image)

13. Enter your credentials and click Next to login as shown in Figure 10: Login - Enter Credentials.

![Figure 10: Login - Enter Credentials](image)

**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.
14. Applications reports are successfully uploaded as shown in Figure 11: Successfully Uploaded

![Figure 11: Successfully Uploaded](image1)

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](image2)
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 or click here.

Figure 13: CloudPilot Home Page

16. You will login to the CloudPilot Dashboard which contains the statistic 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

![Figure 14: Analysis Dashboard](image)

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

Database assessment summary on different azure service.
Recommendation list for all the assessments on different Assessment target.

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

A CloudPilot Support window appears as shown in Figure 100: CloudPilot Support.

![Figure 100: CloudPilot Support](image)
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](image1)

A CloudPilot Feedback window appears as shown in Figure 102: CloudPilot Feedback.

![Figure 102: CloudPilot Feedback](image2)

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.