

Partners Training

Assess Application & DB with CloudPilot

UnifyCloud

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Assess Application & DB with CloudPilot

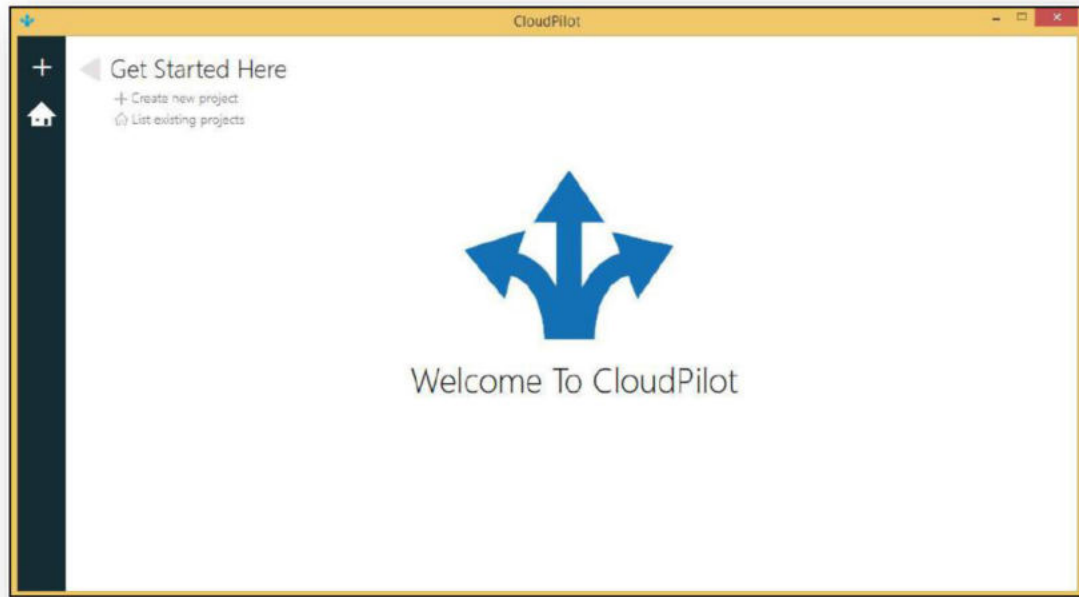
CloudPilot Tool Overview

Pre-Migration

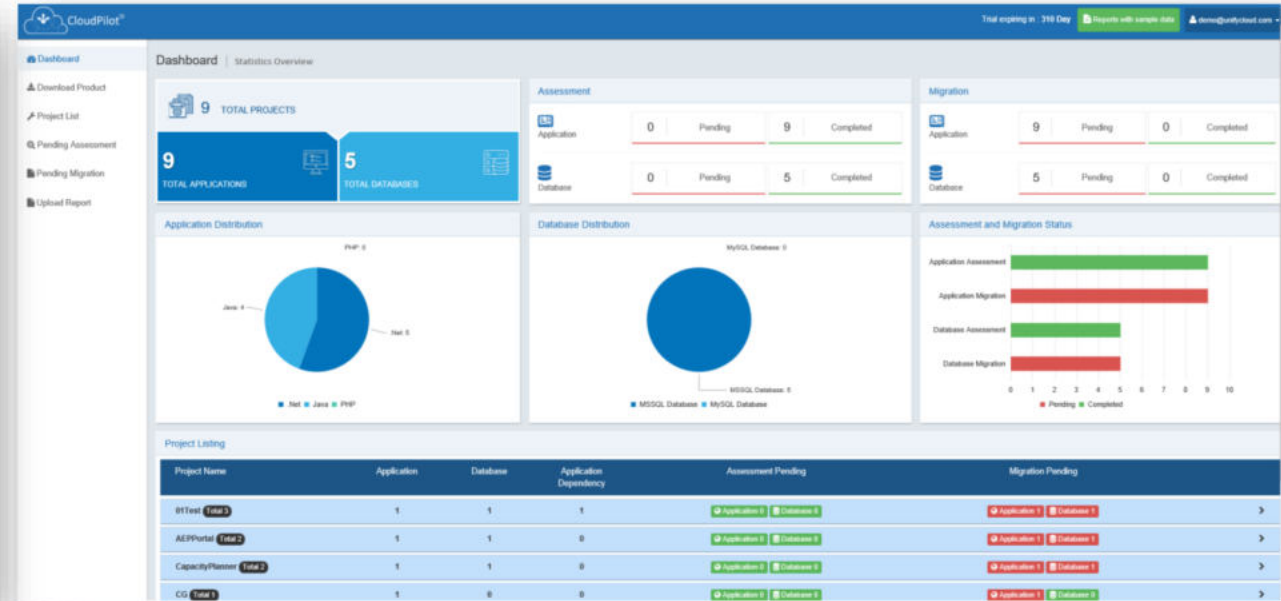
Application PaaS
Analysis

Database PaaS
Analysis

- Application analysis (.NET, Java, PHP) and SQL database analysis
- Simple, light-weight code and database scanner downloads to Windows 8+ under customer's control.
- App / DB Azure Readiness reports for Solution Assessments in minutes.



CloudPilot® Client



CloudPilot® Portal

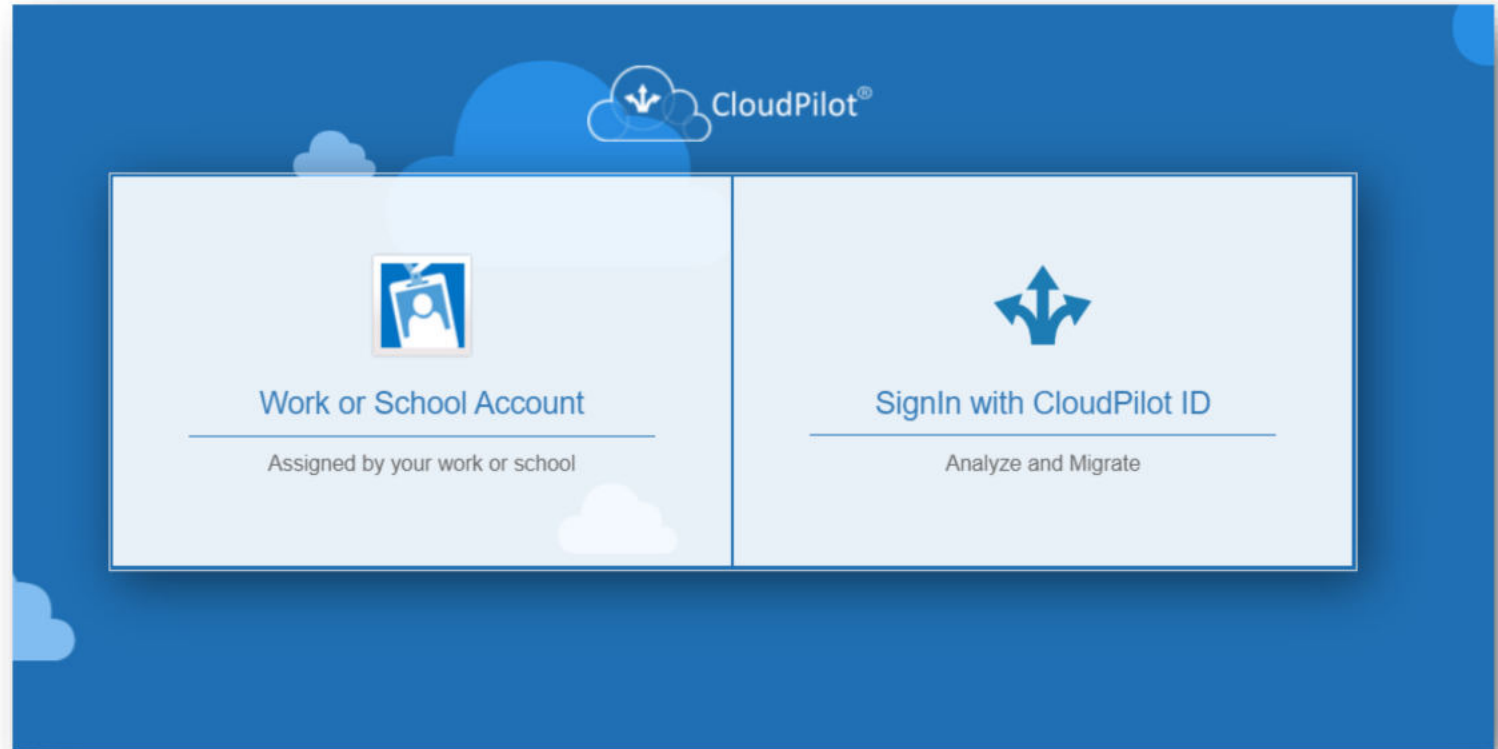
Steps to Download CloudPilot Tool for Scanning

CloudPilot | Steps to download CloudPilot tool

Step 1:

Click On the link below

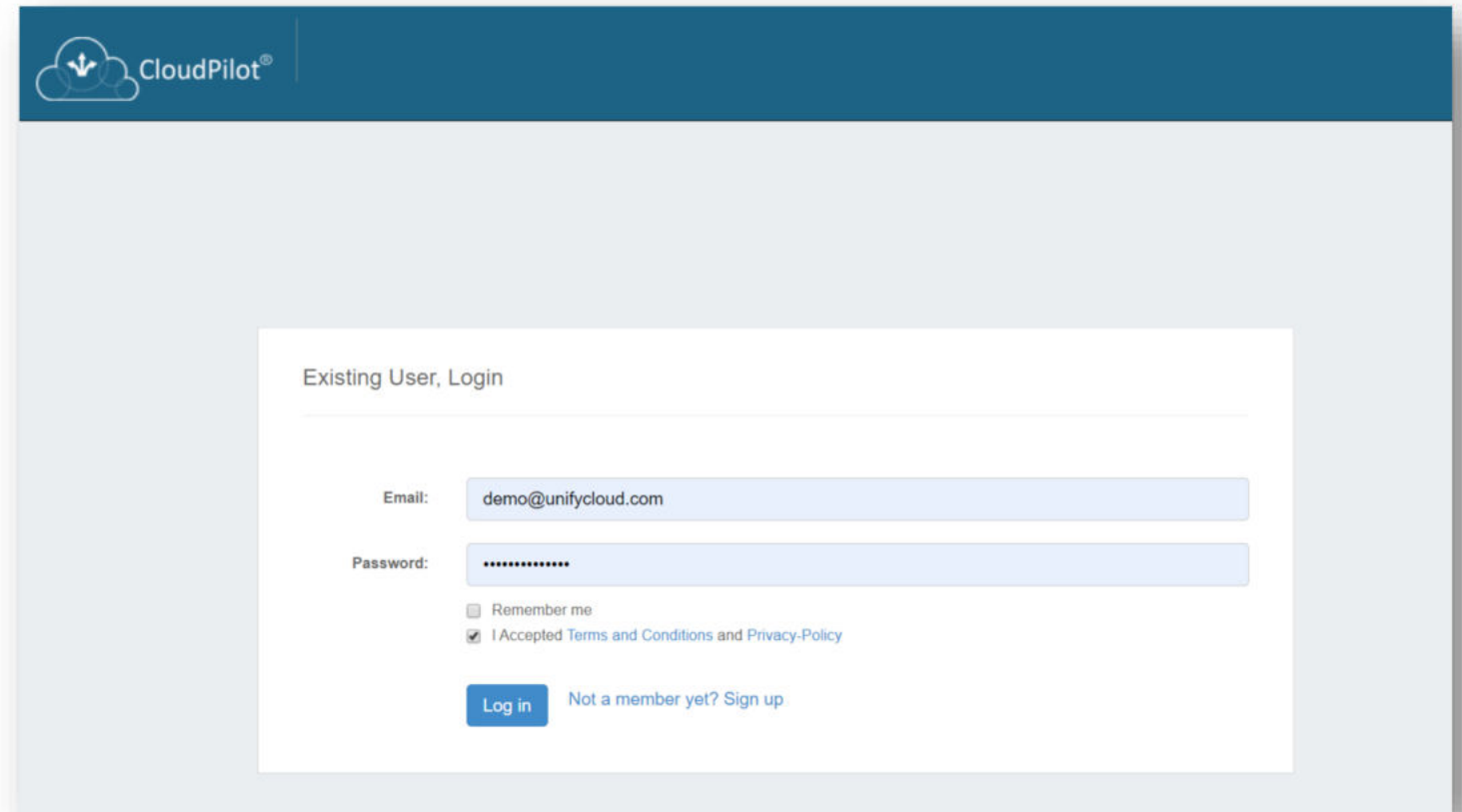
<https://cloudpiloteu.cloudatlasinc.com/>



CloudPilot | Steps to download CloudPilot tool

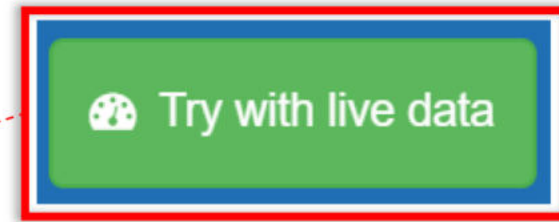
Step 2 :

Now use the credentials provided for login



The screenshot displays the CloudPilot login interface. At the top left, the CloudPilot logo is visible. The main content area is titled "Existing User, Login". Below this title, there are two input fields: "Email:" with the value "demo@unifycloud.com" and "Password:" with a masked password "*****". Below the password field, there are two checkboxes: "Remember me" (unchecked) and "I Accepted Terms and Conditions and Privacy-Policy" (checked). At the bottom of the form, there is a blue "Log in" button and a link "Not a member yet? Sign up".

CloudPilot | Steps to download CloudPilot tool



The screenshot shows the CloudPilot interface for a scan result. The top navigation bar includes 'Sample Report', 'Trial expiring in - 193 Day', 'Download PDF Report', 'Share', and 'Try with live data' (highlighted with a red box). The main content area displays the following information:

- Application Name:** DemoCPApp
- Region:** North Europe
- Scan Result Table:**

Project Name	Application Type	Application Components	Code Lines	Application Platform	Scanned Date
demoProject	Web application	5	15543	.Net	1/26/2018
- APPLICATION** section with three sub-sections:
 - Recommendations:** Recommended Application Platform: Azure App Service. Why: This application is a good choice to move to Azure App Services, as it has no blockers & has additional features without any cost. Other Option: Azure Container instance, Azure Kubernetes Service, Service Fabric and Virtual Machine.
 - Recommendations Result:**

Azure App Service	18
Azure Container(AKS)	16
Virtual Machine	14
 - Azure Infrastructure Cost:**

Azure App Service	S2 (USD \$ 146.40)
Azure Container(AKS)	DS2 v2 (2 Nodes) (USD \$ 193.24)
Virtual Machine	DS2 v2 (USD \$ 169.82)
- Migration Effort:** Bar chart showing hours for different environments:

Environment	Hours
Azure App Service	118
Azure Container(AKS)	132
Virtual Machine	54
- Readiness Status:** Horizontal bar chart showing readiness percentages:

Platform	Ready (%)	Not Ready (%)
Azure App Service	77%	23%
Azure Container(AKS)	77%	23%
Virtual Machine	81%	19%

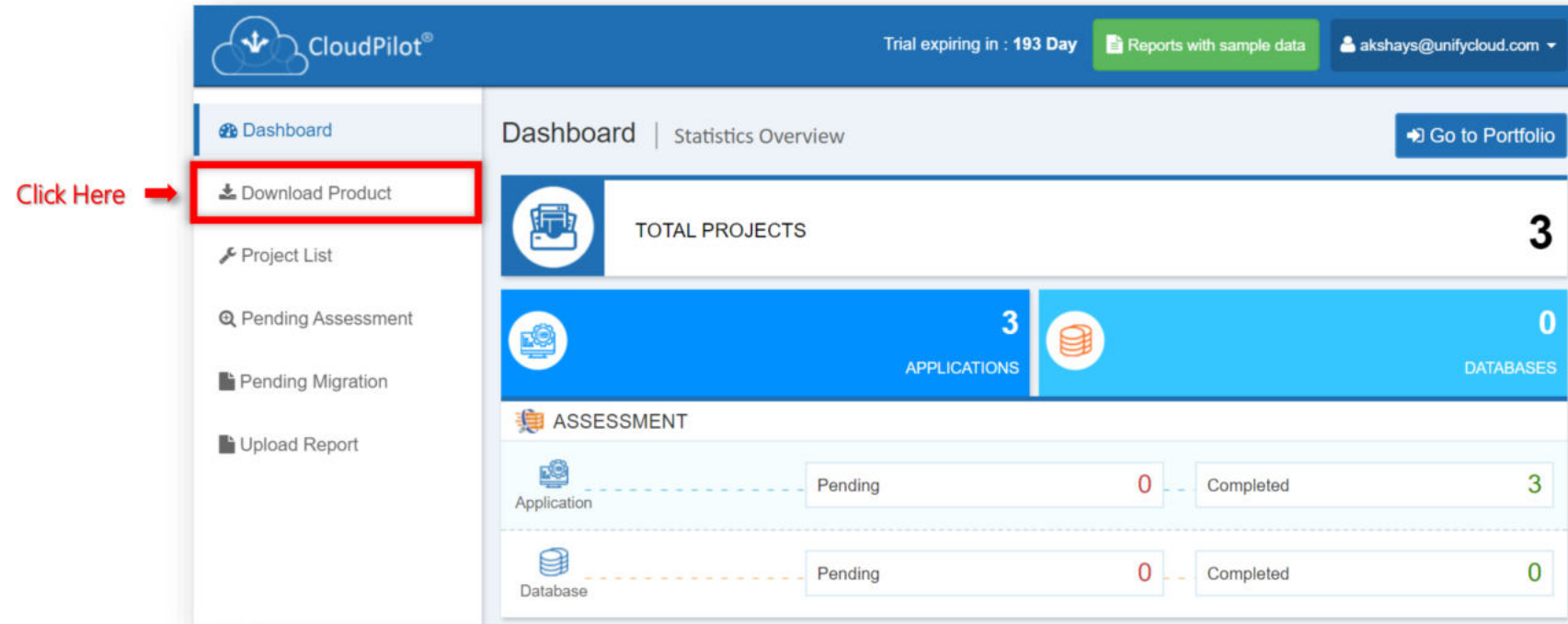
Step 3 :

Now click on 'Try with live Data' top right corner

CloudPilot | Steps to download CloudPilot tool

Step 4 :

Now Click on the 'Download Products' from the left-hand side menu



The screenshot shows the CloudPilot dashboard interface. The top navigation bar includes the CloudPilot logo, a trial expiration notice ('Trial expiring in : 193 Day'), a button for 'Reports with sample data', and a user profile dropdown for 'akshays@unifycloud.com'. The left-hand side menu contains several items: 'Dashboard', 'Download Product' (highlighted with a red box and a red arrow pointing to it from the text 'Click Here'), 'Project List', 'Pending Assessment', 'Pending Migration', and 'Upload Report'. The main dashboard area displays a 'Statistics Overview' section with a 'Go to Portfolio' button. It features three summary cards: 'TOTAL PROJECTS' with a value of 3, 'APPLICATIONS' with a value of 3, and 'DATABASES' with a value of 0. Below these is an 'ASSESSMENT' section with a table showing the status of applications and databases.

Category	Pending	Completed
Application	0	3
Database	0	0

CloudPilot | Steps to download CloudPilot tool

Step 5 :

Now Check the requirements to Install the tool and Click on 'Download' and then Install the tool in a system which has access to Application Source/Compile Code .

Download Product

CloudPilot® tool generates an assessment report to determine the migration-readiness of your application or database for container services, app services, or virtual machine with the list of recommendations and remedies.

Details

- **Version:** 2.0
- **Filename:** CloudPilotTool.zip
- **File Size:** 30.5 MB

System Requirements

- **Operating Systems:** Windows 8 & above

Installation Instructions

- On this page, locate the Download button and then click it to start the download.
***Important:** To know how to use CloudPilot scanner tool, click **Download User Guide** button.*
- Double-click the installer icon.
- Follow the instructions to download the CloudPilot setup wizard.
***Tip:** To start the CloudPilot tool automatically, keep the **Launch CloudPilot tool** checkbox selected before **Finish**, otherwise run CloudPilot tool from the desktop.*
***Important:** To view your assessment report, log in on the Cloud Pilot portal*

CloudPilot Migration Tool
CloudPilot for Azure Migration

[Download](#) [Download User Guide](#)

← Click Here

CloudPilot | Installation Requirements

System Requirements

- Operating Systems: Windows 8 & above
- Note: Download for Windows 7 Download
- Data Migration Assistant v4.1 or above.
- PowerShell v5.0 or above.
- .NET Framework v4.5 or above.
- Strawberry Perl
- Ora2Pg Tool
- Connection with Oracle system database

Installation Instructions

- On this page, locate the Download button and then click it to start the download.
- Important: To know how to use CloudPilot scanner tool, click Download User Guide button.
- Double-click the installer icon.
- Follow the instructions to download the CloudPilot setup wizard.
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- Important: To view your assessment report, log in on the Cloud Pilot portal

Steps to scan Application and Databases

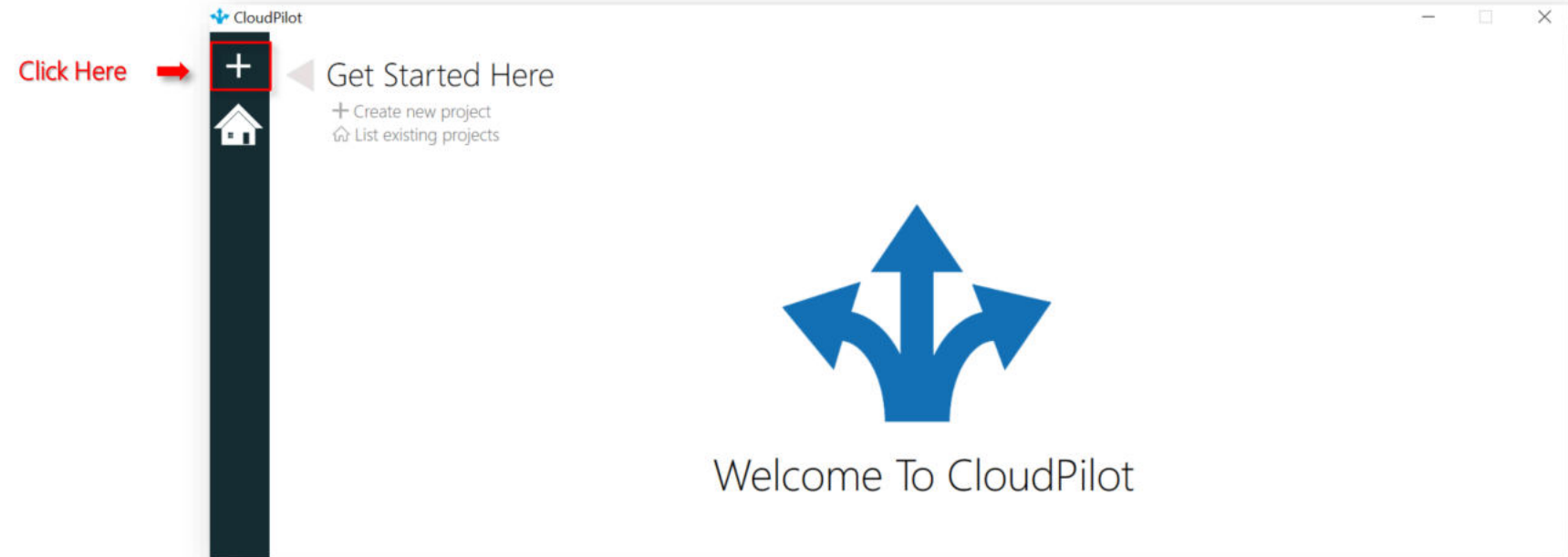
CloudPilot | Steps to Scans Application & Databases

Step 1:

Launch installed CloudPilot tool

Step 2:

Click on '+' sign to add the project



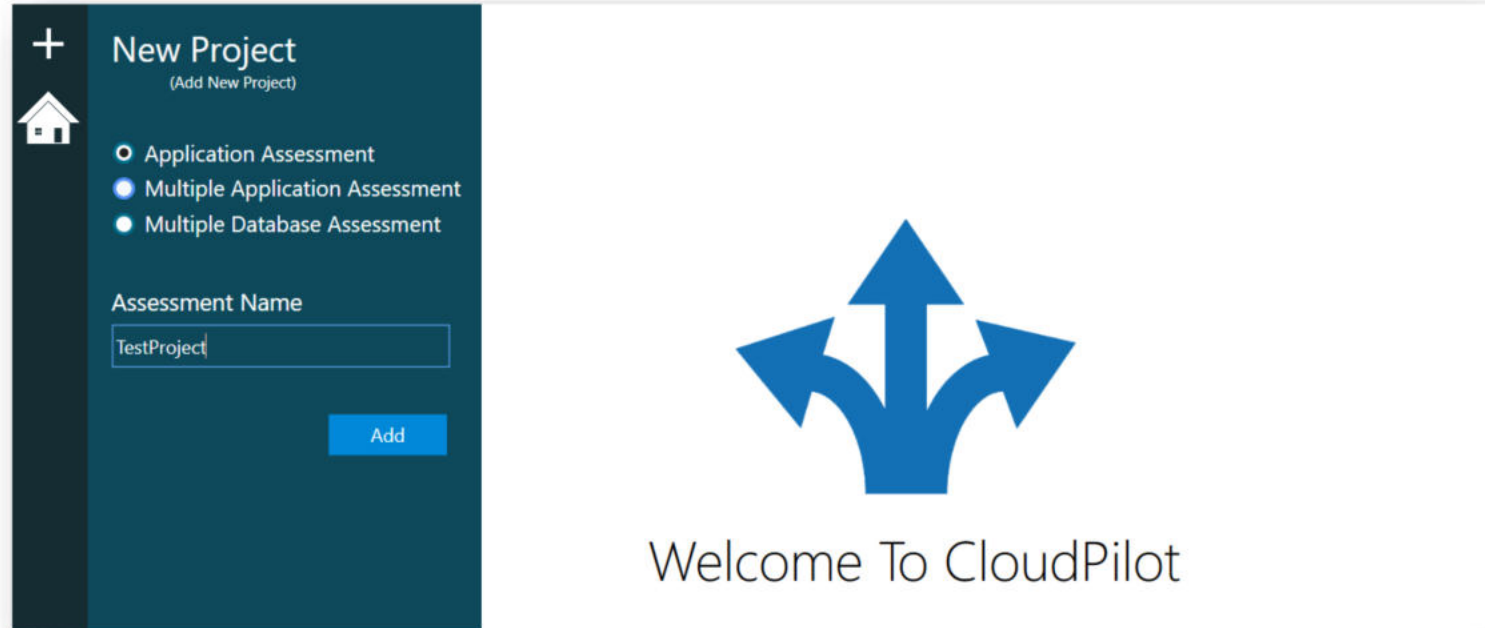
CloudPilot | Steps to Scans Application & Databases

Step 3 :

Now, select 'Application Assessment' and enter Assessment Name in the box below

Step 4 :

Now Click on 'Add'



The screenshot shows the 'New Project' interface in CloudPilot. On the left, a dark teal sidebar contains a home icon, the title 'New Project (Add New Project)', and three radio button options: 'Application Assessment' (selected), 'Multiple Application Assessment', and 'Multiple Database Assessment'. Below the options is a text input field labeled 'Assessment Name' containing the text 'TestProject', and a blue 'Add' button. On the right, a white panel features a large blue icon of three arrows pointing outwards from a central point, with the text 'Welcome To CloudPilot' centered below it.

CloudPilot | Steps to Scans Application & Databases

Step 5 :

Now Provide the application related information

- Application Name:
- App Platform: Choose from Drop Down menu (.net, PHP & Java)
- Source Code Location: Provide link to solution file (.sln)

And then Click on 'Add & Next' Success Message will be displayed

The screenshot shows the 'TestProject' configuration window in CloudPilot. At the top, there are three tabs: 'Add Application' (selected), 'Add Database', and 'Add Application Dependencies'. Below the tabs, the 'Application Details' section contains the following fields:

- Application Name ***: Text input field containing 'DemoApp 1'.
- Platform ***: Dropdown menu showing 'Microsoft.Net'.
- Application Type ***: Dropdown menu showing 'Web Application'.
- Source Code Location**: Includes radio buttons for 'Solution file path' (selected) and 'Solution folder path'. Below is a text input field with the path 'C:\Users\unifycloud\Desktop\CloudPilc' and a 'Browse' button.
- Compiled Code Location**: Text input field with a 'Browse' button.

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

CloudPilot | Steps to Scans Application & Databases

Step 6 :

Now, add Database related details to scan databases and Click on 'Add & Next'

Or else click on 'Skip' to proceed

⊕ 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 MySQL

Server Name * ?

Authentication * ?

Username * ?

Password * ? **+Connect**

Database Name * ?

Please install Microsoft Data Migration Assistant to assess database. Click [here](#) to download.

Add Add & Next Skip

CloudPilot | Steps to Scans Application & Databases

Step 7 :

Now, provide 'Application Dependencies' related information here and Click on 'Add & Next'

Or Else Click on 'Skip)

The screenshot shows a configuration window titled 'TestProject' with three tabs: 'Add Application', 'Add Database', and 'Add Application Dependencies'. The 'Add Application Dependencies' tab is active. Under the heading 'Service Details', there are several fields:

- Service Name ***: A text input field with a help icon.
- Platform ***: A dropdown menu with 'Microsoft.Net' selected and a help icon.
- Service Type ***: A dropdown menu with 'Web API' selected and a help icon.
- Source Code Location**: A section with the instruction 'Browse atleast one of the code location.' and two radio buttons: 'Solution file path' (selected) and 'Solution folder path'. Below the radio buttons is a text input field with a 'Browse' button and a help icon.
- Compiled Code Location**: A text input field with a 'Browse' button and a help icon.

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

CloudPilot | Steps to Scans Application & Databases

Step 8 :

Now, you can see the details of items added for scanning purpose.

Now under 'Take Action' tab click on 'Start Assessment' to start scanning the Item

Project Name
TestProject

Add Application Add Database Add Application Dependencies

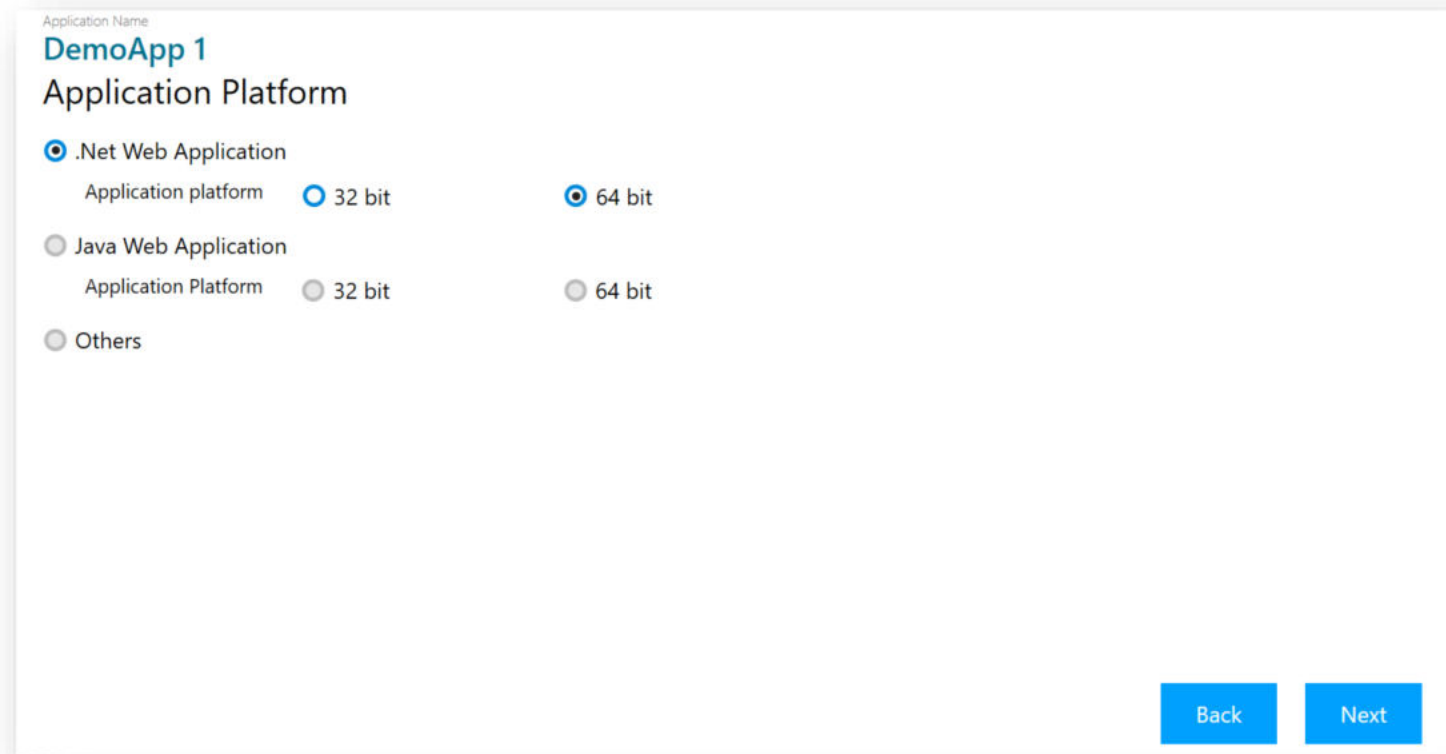
Application 1 Database 0 Service 0

Application Name	Application Type	Application Platform	Assessment Status	Assessment Report	Migration Status	Post Migration	Take Action	#
DemoApp 1	Web Application	Microsoft.Net	Not Started	View	Not Started	Not Generated	Start Assessment	Edit

CloudPilot | Steps to Scans Application & Databases

Step 9 :

Now, provide Application platform related information and Click on 'Next'



The screenshot shows a configuration window for an application named "DemoApp 1". The window is titled "Application Platform" and contains three main options, each with a radio button:

- .Net Web Application
 - Application platform 32 bit 64 bit
- Java Web Application
 - Application Platform 32 bit 64 bit
- Others

At the bottom right of the window, there are two blue buttons: "Back" and "Next".

CloudPilot | Steps to Scans Application & Databases

Step 10 :

Now, fill out 'Application Infrastructure Survey' if information are handy and click on 'Start Scan'

In case information are unavailable then skip the survey Click on ' Start Scan'

Application Name
DemoApp 1

Application Infrastructure Survey

1. What is your application's average CPU utilization? [?](#)
 High(> 70%) Medium(30%-70%) Low(<30%)
2. What is your application's memory utilization? [?](#)
 High(> 70%) Medium(30%-70%) Low(<30%)
3. What is your application bandwidth requirement ? [?](#)
 High(> 70%) Medium(30%-70%) Low(<30%)
4. Does your application requires VPN connectivity? [?](#)
 Yes No Don't know
5. Is your application running on load balancing mode (Multiple VM's or microservices)? [?](#)
 Yes No Don't know
6. What is current virtual machine RAM/CORE size ? [?](#)
No. of Cores RAM size GB

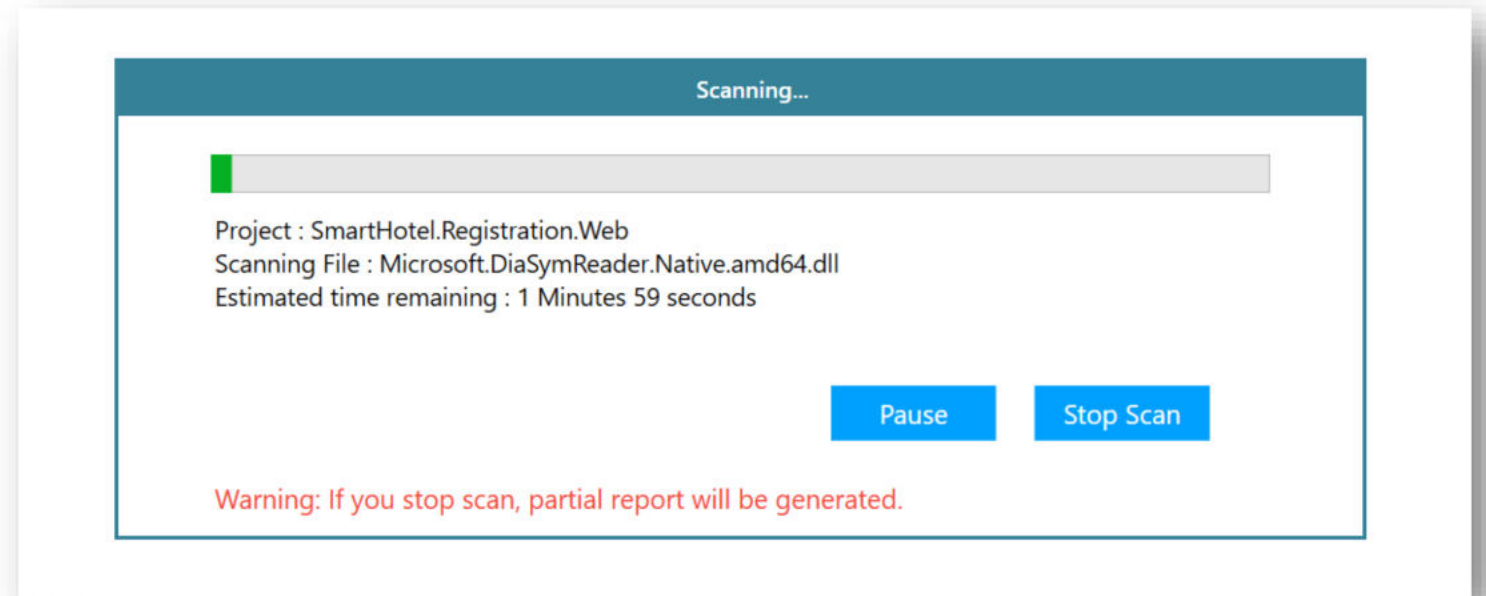
[Back](#) [Start Scan](#)

CloudPilot | Steps to Scans Application & Databases

Step 11 :

Now, CloudPilot will start scanning application and will provide the estimated time for the scanning

Once Scan is complete success message will be displayed with Scan Results and Next Steps Action Buttons



CloudPilot | Steps to Scans Application & Databases

Step 12 :

Now, User from here

1. Can view scan results by Clicking on 'View Scanned Data.
2. Upload Scan data over to CloudPilot Portal to view 'Assessment Reports'

Step :

Before, Uploading we recommend user to see scan data to check for any PII information.

Application Name
DemoApp 1
Application Dependency

Project Name	Source	Project Type	Dependency Type	Dependency Count	View Details
SmartHotel.Registration.Web	C:\Users\unifycloud\Desktop\	Web Application	DrivePath	4	Click here
SmartHotel.Registration.Web	C:\Users\unifycloud\Desktop\	Web Application	ConnectionString	4	Click here
SmartHotel.Registration.Web	C:\Users\unifycloud\Desktop\	Web Application	URL	9	Click here

[Add New Dependency](#)

Application is scanned and the scanned data is generated successfully.

- 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](#)

CloudPilot | Steps to Scans Application & Databases


Step 13 :


Once Scanned file is checked Click on 'Sign In & Upload' option upload data on CloudPilot Portal with their credentials.

Application Name
DemoApp 1



**Sign in with
Azure Active Directory**



 **Login with your CloudPilot Portal Login credentials :**

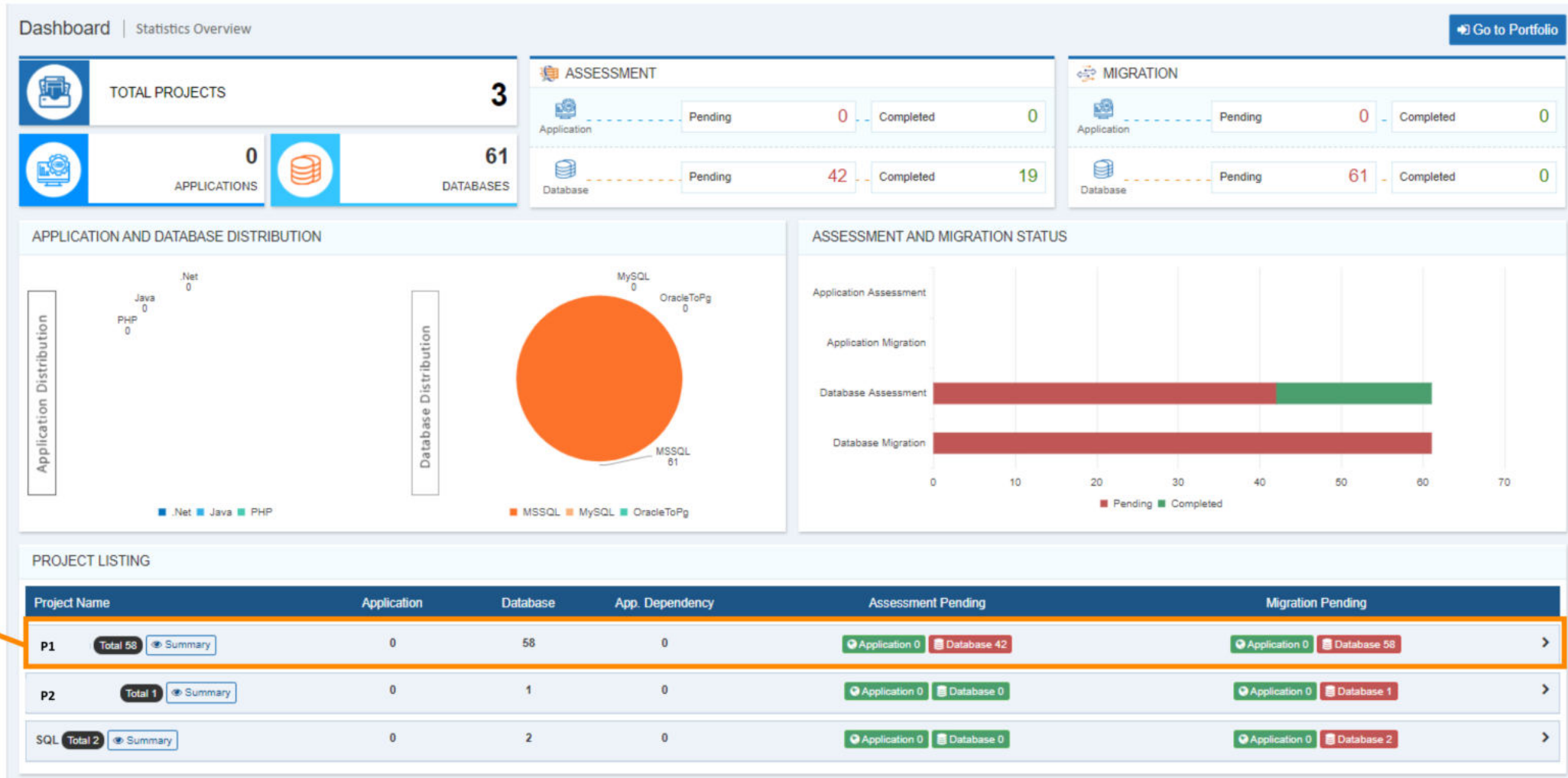
UserName/Email Id *

Password *

If you don't have Cloud Pilot account [Click here](#)

CloudPilot Reports Generation

CloudPilot | Report Generation Steps



Select the project from the list

CloudPilot | Report Generation Steps

The screenshot displays the CloudPilot dashboard with the following components:

- Header:** CloudPilot logo, trial expiration (806 Day), and user profile (swald@miredata.ch).
- Dashboard Overview:** Statistics Overview with a 'Go to Portfolio' button.
- Summary Cards:**
 - TOTAL PROJECTS: 3
 - APPLICATIONS: 0
 - DATABASES: 61
- ASSESSMENT:**
 - Application: Pending 0, Completed 0
 - Database: Pending 42, Completed 19
- MIGRATION:**
 - Application: Pending 0, Completed 0
 - Database: Pending 61, Completed 0
- APPLICATION AND DATABASE DISTRIBUTION:** Two donut charts showing the distribution of applications (.Net, Java, PHP) and databases (MSSQL, MySQL, OracleToPg).
- ASSESSMENT AND MIGRATION STATUS:** A horizontal bar chart showing the status of application and database assessment and migration (Pending vs. Completed).
- PROJECT LISTING:** A table with columns for Project Name, Application, Database, App. Dependency, Assessment Pending, and Migration Pending. It includes a summary row and a table for MS SQL Database Migration Assessment.

Project Name	Application	Database	App. Dependency	Assessment Pending	Migration Pending	
Total 58	0	58	0	Application 0 Database 42	Application 0 Database 58	
MS SQL Database Migration Assessment						
Database Name	Database Type	Source Platform	Scan Date	Assessment Status	Migration Status	Action
Database 1	SQL Server	On-Premise	07-10-2020	⚠ Pending	⚠ Pending	Analysis Edit
Database 2	SQL Server	On-Premise	07-10-2020	⚠ Pending	⚠ Pending	Analysis Edit
Database 3	SQL Server	On-Premise	07-13-2020	⚠ Pending	⚠ Pending	Analysis Edit

Click on 'Analysis'

CloudPilot | Report Generation . Survey Questions

Application Survey Questions

Select All : Yes No Reset Selection

1. Does your application have any dependency on Global Assembly Cache (GAC)?

Yes No

2. 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

3. Does your application use automatic backup mechanism?

Yes No

4. Does your application have some firewall configuration settings?

Yes No

5. Does your application have some secure socket layer(SSL) related settings?

Yes No

6. Is your application uses COM component ?

Yes No

7. Does your application use PII information?

Yes No

▶▶ Next

Database Survey Questions

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

1. Is database replication enabled?

Yes No

2. Do you have database mirroring and failover clustering enabled for the application?

Yes No

3. Does your application use any SQL Server Reporting Service (SSRS)?

Yes No

4. Does your database have any schedule SQL Jobs?

Yes No

5. Does your application/database use any Encryption Key management technique?

Yes No

6. Does your application use business continuity and disaster recovery for database?

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 Extended stored procedures?

Yes No

13. Does your database use any default recovery option like Geo-restore?

Yes No

▶▶ Next

CloudPilot Reports Walkthrough

CloudPilot | Reports Walkthrough

Step 1:

Now go back to CloudPilot Portal

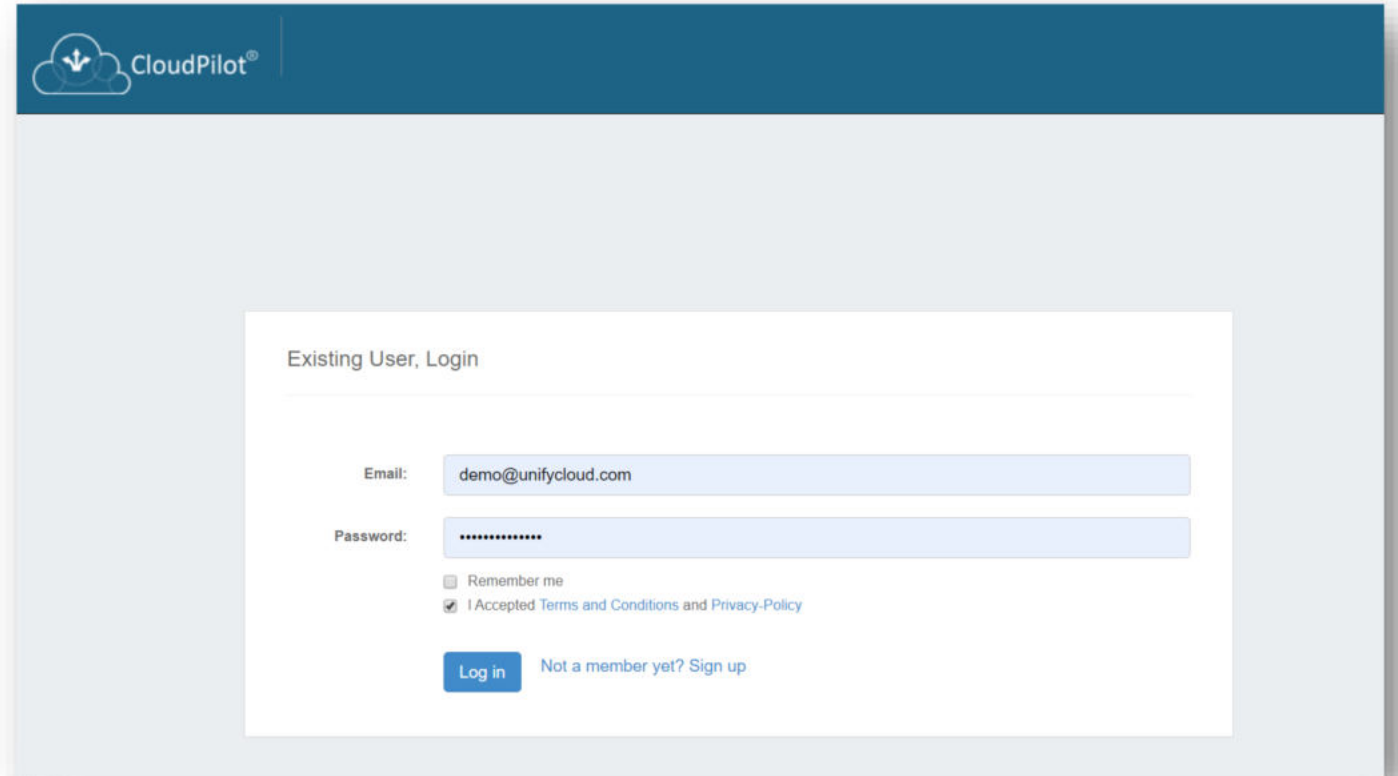
Or

Click On the link below

<https://cloudpiloteu.cloudatlasinc.com/>

Step 2 :

Now use the credentials provided for login



The screenshot shows the CloudPilot login interface. At the top left is the CloudPilot logo. The main content area is titled 'Existing User, Login'. It contains two input fields: 'Email:' with the value 'demo@unifycloud.com' and 'Password:' with masked characters. Below the password field are two checkboxes: 'Remember me' (unchecked) and 'I Accepted Terms and Conditions and Privacy-Policy' (checked). At the bottom, there is a blue 'Log in' button and a link that says 'Not a member yet? Sign up'.

CloudPilot Reports | Application Assessment Overview

1 Development effort for different migration options

2 Lines of code scanned

3 Count of code changes required for each migration option

Project Name	Application Type	No. of Database	Application Components	Code Lines	Application Platform	Scanned Date
App Group 2	Web Application	Not Scanned	9	213276	.Net	07/31/2019

APPLICATION

Application Recommendations

Recommended Application Platform: Azure App Service enables you to build and host web applications in the programming language of your choice without managing infrastructure. It offers auto-scaling and high availability, supports both Windows and Linux, and enables automated deployments from GitHub, Visual Studio Team Services, or any Git repo. [More Info...](#)

Why: This application is a good choice to move to Azure app services, as it has no blockers & has additional features without any cost.

Other Option: Azure Container Service and Virtual Machine.

Recommendations Result

Platform	Count
App Service	25
Virtual Machine	20
Container	22

Recommendations Cost

Platform	Cost
App Service	52 (US\$ 146.4)
Virtual Machine	DS1 v2 (US\$ 92.23)
Container	DS1 v2 (US\$ 95.11)

Migration Effort

Platform	Days	Hours
App Service	21	3
Virtual Machine	8	5
Container	21	7

Readiness Status

Platform	Green (%)	Red (%)
AppService	~75	~25
Container	~95	~5
Virtual Machine	100	0

CloudPilot Reports | Application Assessment Overview

The screenshot displays the CloudPilot interface for an application named 'India Residential'. The left sidebar lists various assessment categories: Overview, App Service Assessment, Container Assessment, Virtual Machine Assessment, Application Dependency Graph, Security Recommendation, and Costing Recommendation. The main content area shows a 'Scan Result' table with the following data:

Project Name	Application Type	No. of Database	Application Components	Code Lines	Application Platform	Scanned Date
App Group 2	Web Application	Not Scanned	9	213276	.Net	07/31/2019

Below the scan result, the 'APPLICATION' section provides 'Application Recommendation' and 'Recommendations Result'. An orange callout box labeled '4' points to the 'Application Recommendation' section, which includes a 'Recommended Application Platform' and an 'Other Option: Azure Container Service'. The 'Recommendations Result' table lists the following options:

Recommendation	Score
App Service	25
Virtual Machine	20
Container	22

An orange callout box labeled '5' points to the 'Recommendations Cost' section, which shows the following cost estimates:

Recommendation	Cost
App Service	52 (US\$ 146.4)
Virtual Machine	DS1 v2 (US\$ 92.23)
Container	DS1 v2 (US\$ 95.11)

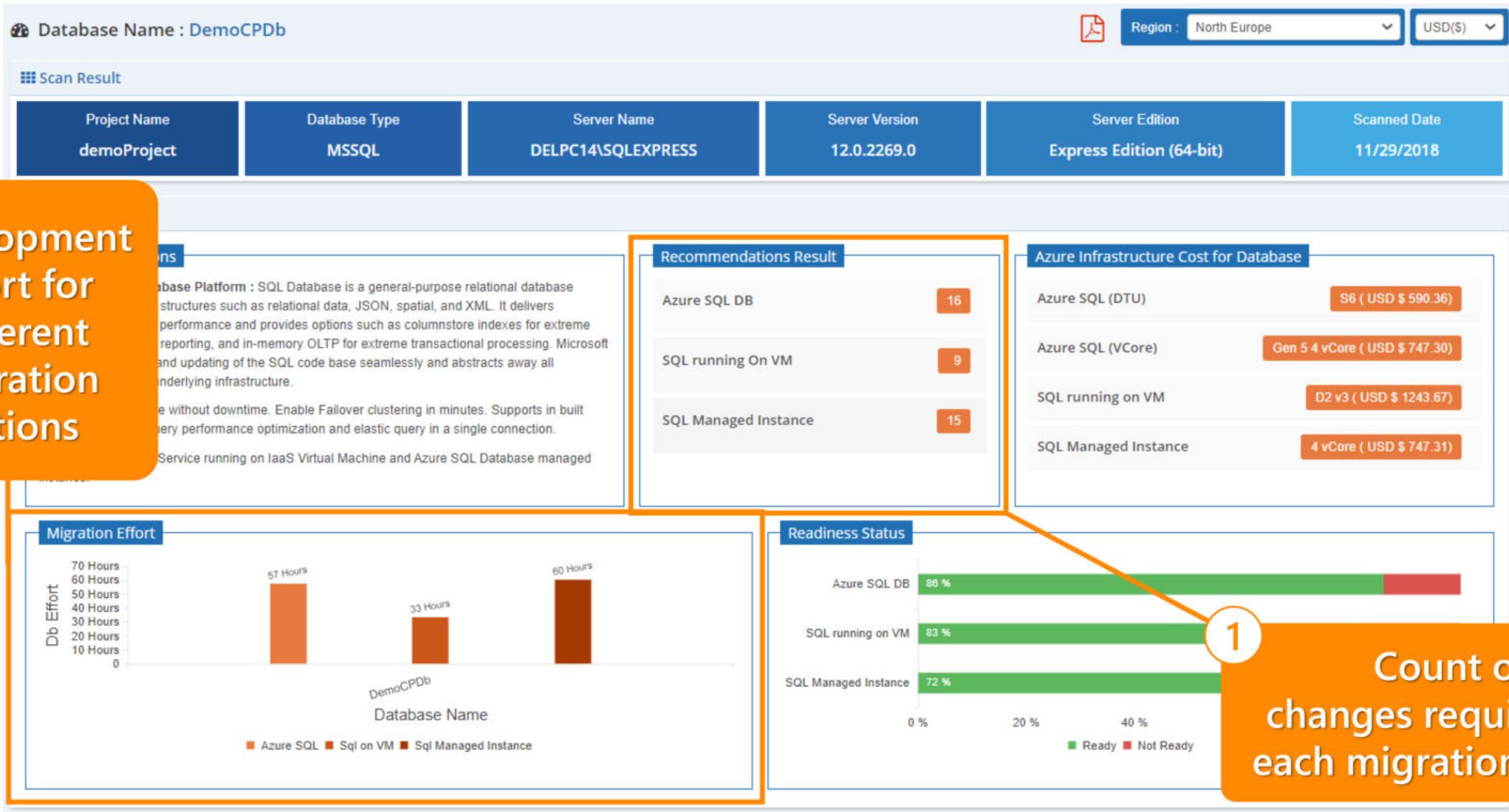
The 'Migration Effort' section features a bar chart comparing the migration effort for App Service, Virtual Machine, and Container. The y-axis represents 'Days' (0 to 25). The x-axis lists the platforms. The data is as follows:

Platform	Migration Effort (Days)
App Service	21 Days 3 Hours
Virtual Machine	8 Days 5 Hours
Container	21 Days 7 Hours

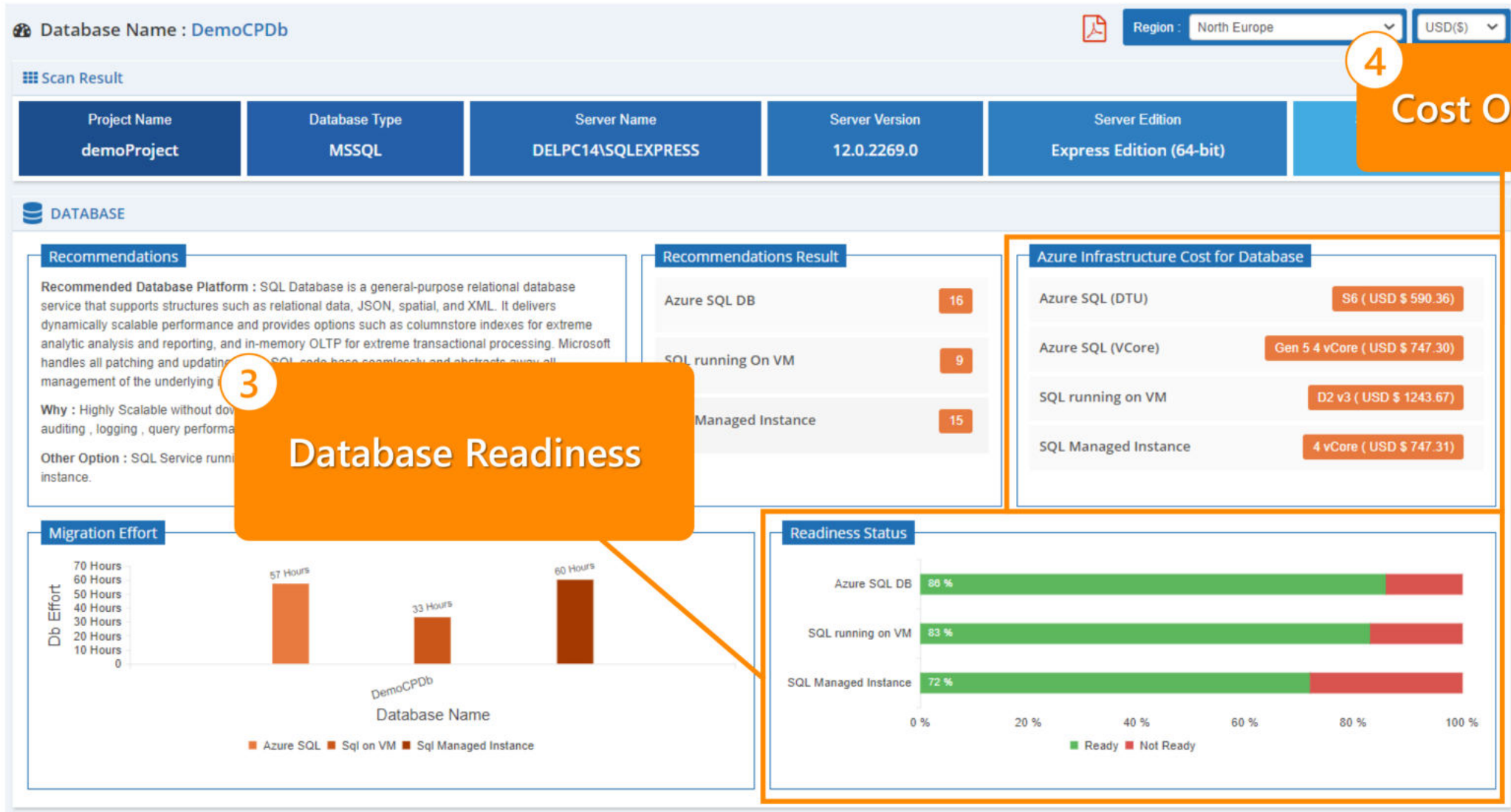
The 'Readiness Status' section shows a horizontal bar chart for AppService, Container, and Virtual Machine. The x-axis represents the percentage of readiness (0% to 80%). The bars are color-coded: green for 'Environment' and red for 'Application'. The data is as follows:

Platform	Environment (%)	Application (%)
AppService	~80	~20
Container	~85	~15
Virtual Machine	~80	~20

CloudPilot Reports | Database level Recommendations



CloudPilot Reports | Database level Recommendations

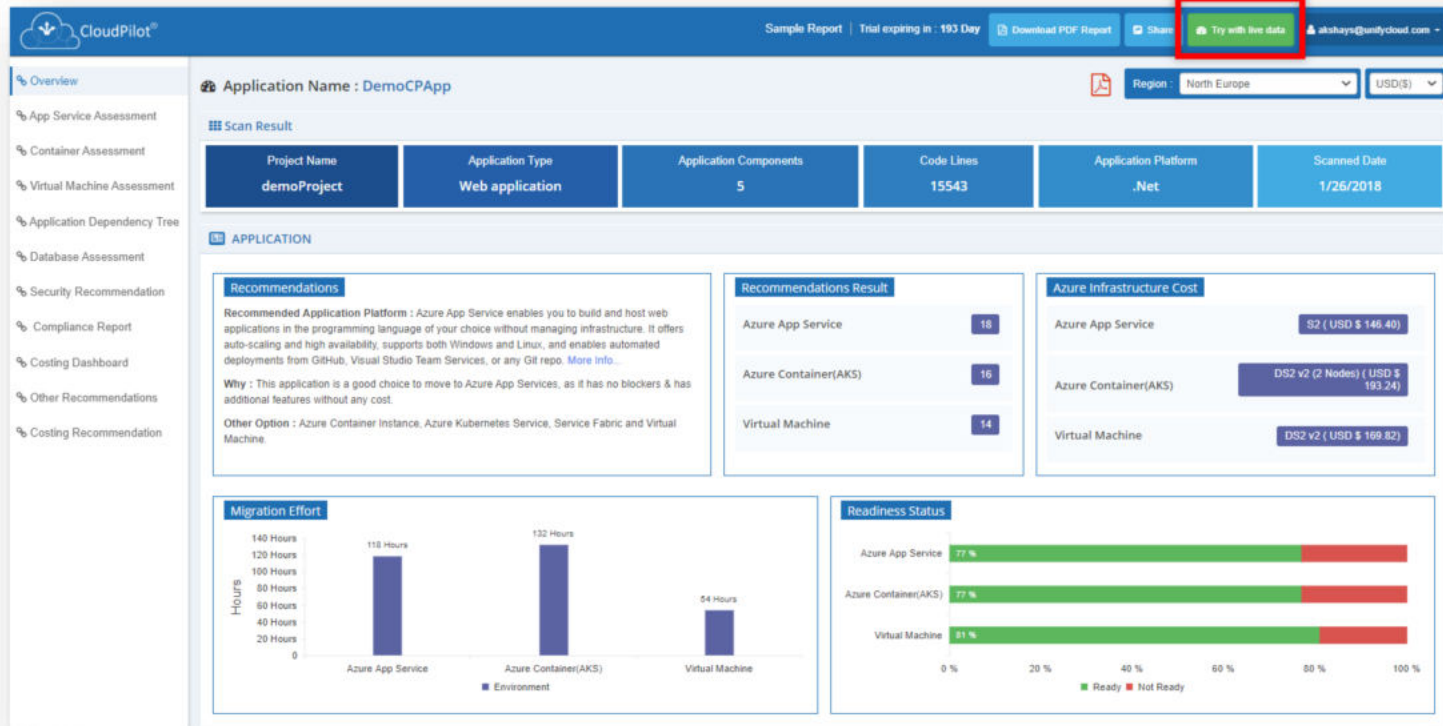
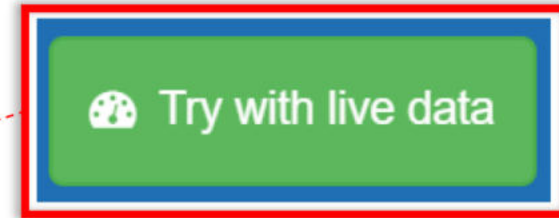


3 Database Readiness

4 Cost Outline

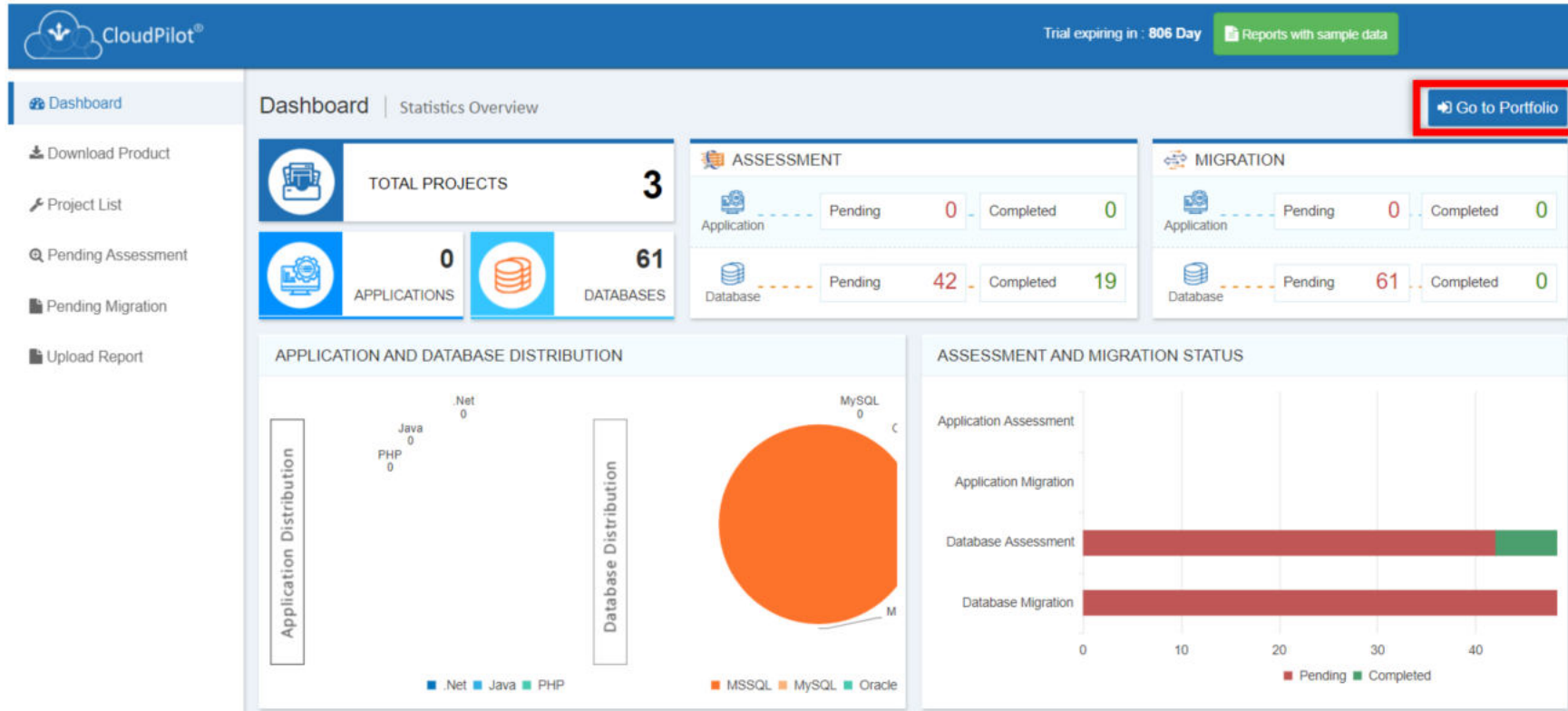
CloudPilot Portfolio View

CloudPilot Reports | Portfolio Access



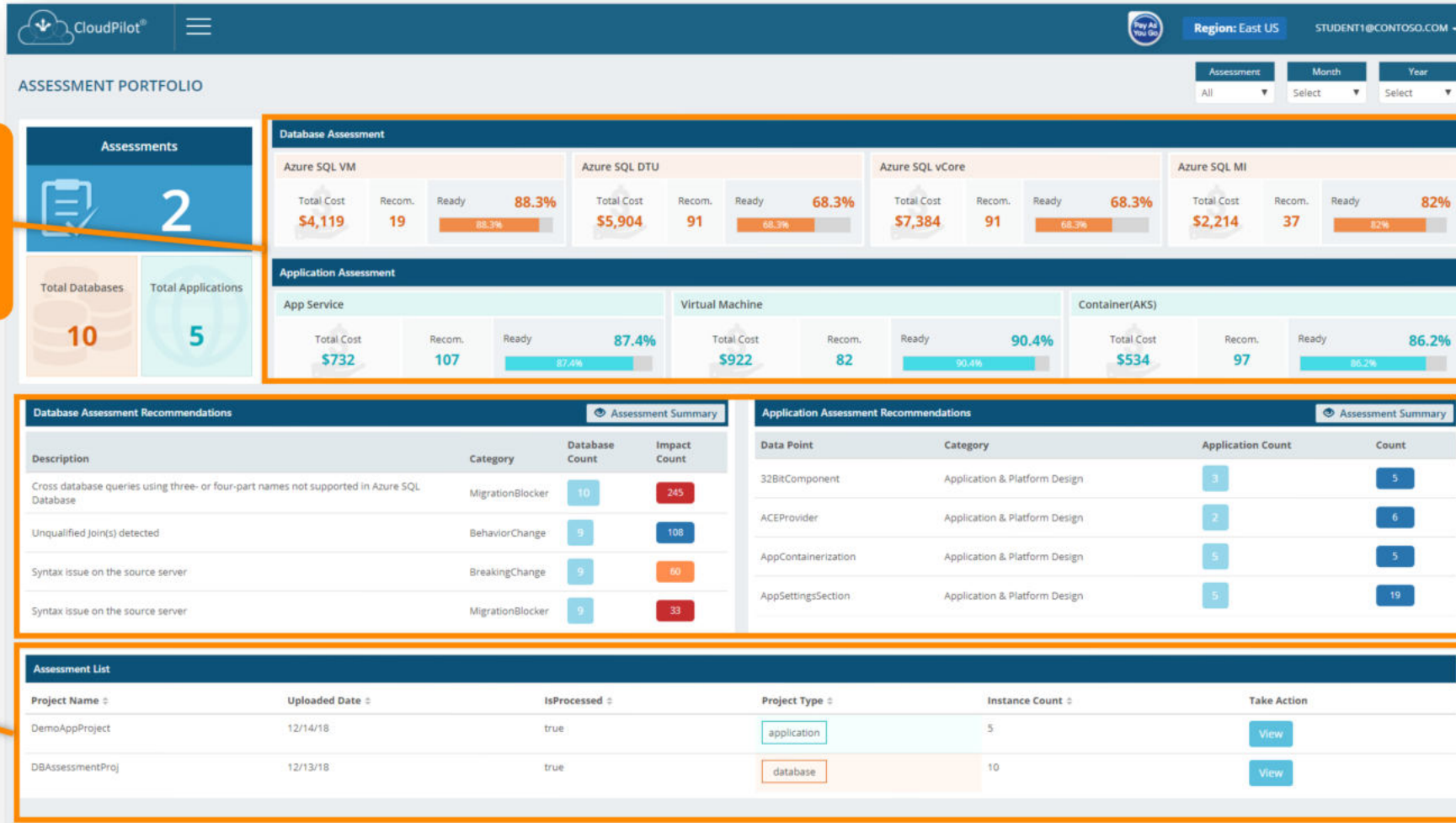
Post successful login, Click on 'Try with live data'

CloudPilot Reports | Portfolio Access



Now Click on 'Go to Portfolio'

CloudPilot Reports | Portfolio Overview



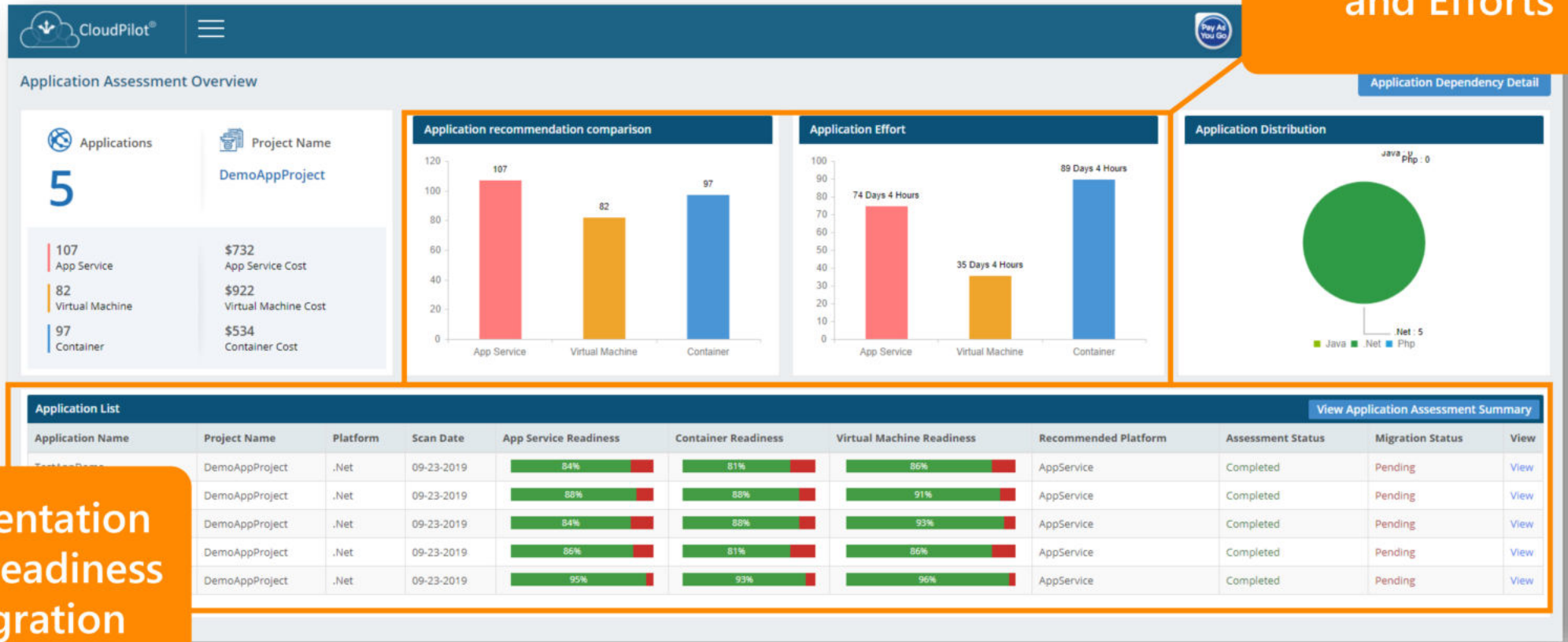
1 Apps and DB Assessment Overview

2 Apps and DB Assessment Summary

3 Project List

CloudPilot Reports | Application Portfolio Overview

1 Migration blockers and Efforts



2 Visual representation of migration readiness for each migration option by database

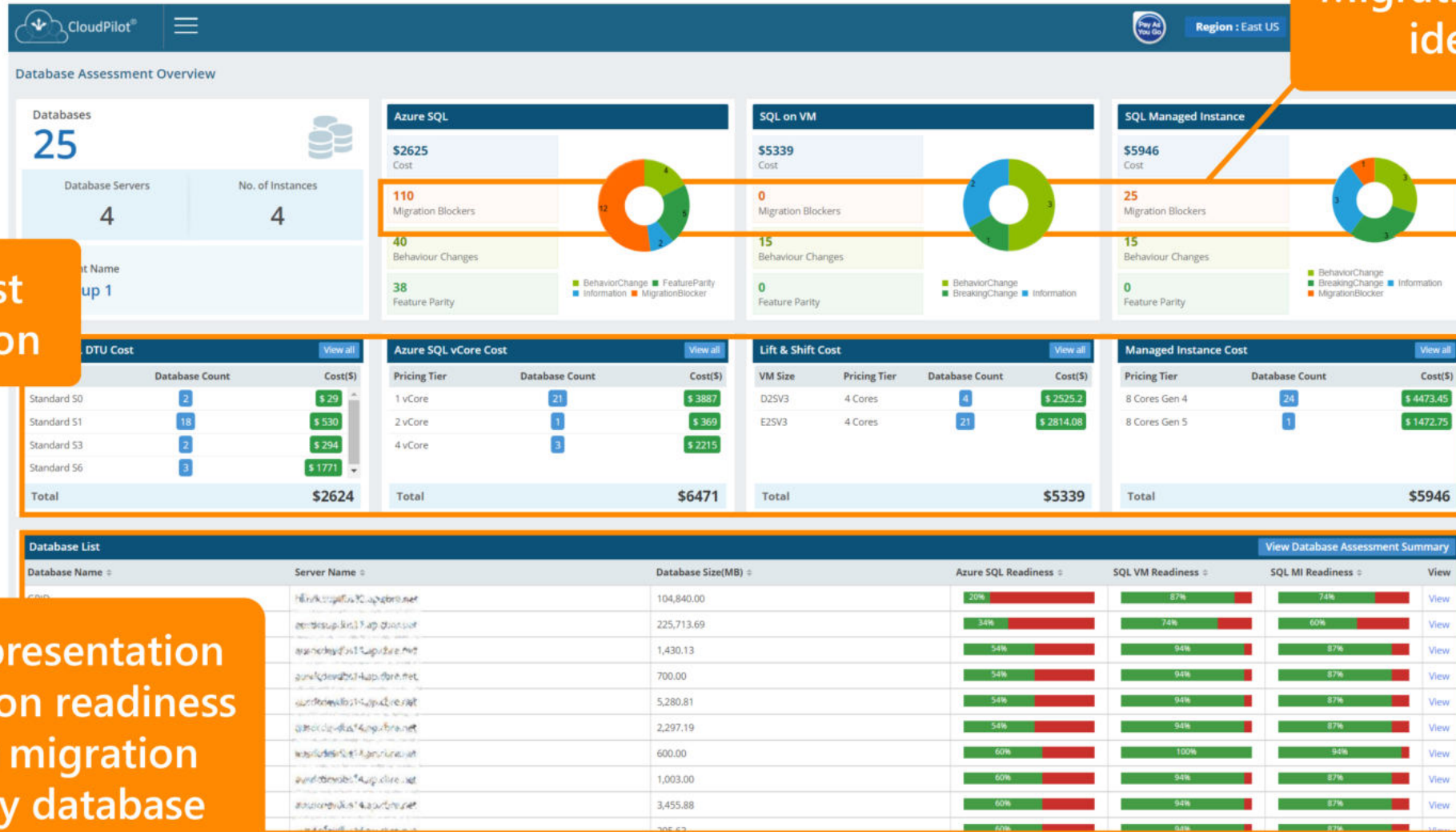
CloudPilot Reports | Database Portfolio Overview

1

Migration blockers identified

2 OpEx cost comparison

3 Visual representation of migration readiness for each migration option by database



THANK YOU

CONTACT US

support@unifycloud.com

