Assess Application & DB with CloudPilot

CloudPilot Tool Overview

- 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.

Pre-Migration

<table>
<thead>
<tr>
<th>Application PaaS Analysis</th>
<th>Database PaaS Analysis</th>
</tr>
</thead>
</table>

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/
Step 2:
Now use the credentials provided for login
CloudPilot | Steps to download CloudPilot tool

Step 3:
Now click on ‘Try with live Data’ top right corner
Step 4:

Now Click on the ‘Download Products’ from the left-hand side menu.
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.
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.
- 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
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
Step 3:
Now, select ‘Application Assessment’ and enter Assessment Name in the box below.

Step 4:
Now Click on ‘Add’
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
Step 6:

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

Or else click on ‘Skip’ to proceed
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’
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.
Step 9:

Now, provide Application platform related information and Click on ‘Next’
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’
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.
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.
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.
CloudPilot Reports Generation
CloudPilot | Report Generation Steps

Dashboard | Statistics Overview

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

ASSESSMENT AND MIGRATION STATUS

PROJECT LISTING

Select the project from the list

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Application</th>
<th>Database</th>
<th>App. Dependency</th>
<th>Assessment Pending</th>
<th>Migration Pending</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>0</td>
<td>58</td>
<td>0</td>
<td>Application 0</td>
<td>Database 0</td>
</tr>
<tr>
<td>P2</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>Application 0</td>
<td>Database 0</td>
</tr>
<tr>
<td>SQL</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>Application 0</td>
<td>Database 0</td>
</tr>
</tbody>
</table>
CloudPilot | Report Generation Steps
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

Database Survey Questions

Select All: □ Yes □ No □ Reset Selection. For better Assessment Report Click Here

1. Is database application 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 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 (Hive) is enabled for your database?
   - □ Yes □ No

9. Does your database have to import support 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 De-restore?
    - □ Yes □ No
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
CloudPilot Reports | Application Assessment Overview

1. Application Name: India Residential
2. Project Name: App Group 2
3. Application Type: Web Application
4. No. of Database: Not Scanned
5. Application Components: 9
6. Code Lines: 213276
8. Generate date: 07/31/2019

4. Application Readiness

5. Cost Outline

- App Service: $121.98 (18.4)
- Virtual Machine: $59.52 (3.9)
- Container: $151.62 (9.11)

Graph showing migration efforts and readiness status.

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CloudPilot Reports | Database level Recommendations

Development effort for different migration options

Count of changes required for each migration option

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CloudPilot Reports | Database level Recommendations

**Database Name:** DemoCPDb

**Project Name:** demoProject

**Database Type:** MSSQL

**Server Name:** DELPC14SQLEXPRESS

**Server Version:** 12.0.2269.0

**Server Edition:** Express Edition (64-bit)

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### DATABASE

**Recommendations:**
- **Recommended Database Platform:** SQL Database is a general-purpose relational database service that supports structures such as relational data, JSON, spatial, and XML. It delivers dynamically scalable performance and provides options such as columnstore indexes for extreme analytic analysis and reporting, and in-memory OLTP for extreme transactional processing. Microsoft handles all patching and updates. SQL code-based compliance and automatically enables management of the underlying databases.
- **Why:** Highly scalable without data auditing, logging, query performance, and support.
- **Other Option:** SQL Server running on VM.

**Recommendations Result:**
- **Azure SQL DB:** 16
- **SQL running On VM:** 9
- **Managed Instance:** 15

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### Azure Infrastructure Cost for Database

- **Azure SQL (DTU):** 56 (USD $ 599.36)
- **Azure SQL (VCore):** Gen 5 4 vCore (USD $ 747.30)
- **SQL running on VM:** Gen 2 3 (USD $ 1243.67)
- **SQL Managed Instance:** 4 vCore (USD $ 747.31)

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### Migration Effort

- **Database Readiness:**
  - Azure SQL DB: 60%
  - SQL running on VM: 83%
  - SQL Managed Instance: 72%

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**Cost Outline**

**Database Readiness**

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CloudPilot Portfolio View
Post successful login, Click on ‘Try with live data’
Now Click on ‘Go to Portfolio’
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

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