

vRealize Automation Cloud Transition Guide

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vRealize Automation

You can find the most up-to-date technical documentation on the VMware website at:

<https://docs.vmware.com/>

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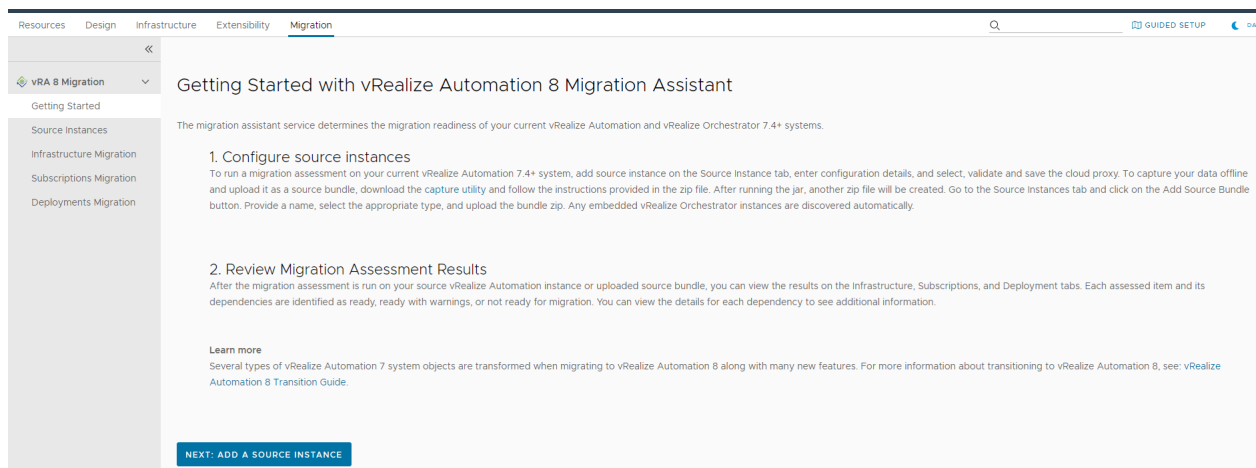
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Using the vRealize Automation Cloud Migration Assessment Service

1

The migration assessment determines the migration readiness of your vRealize Automation 7.4 or later source environment for vRealize Automation Cloud.



The screenshot shows the vRealize Automation Cloud Migration Assistant interface. The top navigation bar includes 'Resources', 'Design', 'Infrastructure', 'Extensibility', and 'Migration'. The main content area is titled 'Getting Started with vRealize Automation 8 Migration Assistant'. It contains the following text:

The migration assistant service determines the migration readiness of your current vRealize Automation and vRealize Orchestrator 7.4+ systems.

- 1. Configure source instances**
To run a migration assessment on your current vRealize Automation 7.4+ system, add source instance on the Source Instance tab, enter configuration details, and select, validate and save the cloud proxy. To capture your data offline and upload it as a source bundle, download the [capture utility](#) and follow the instructions provided in the zip file. After running the jar, another zip file will be created. Go to the Source Instances tab and click on the Add Source Bundle button. Provide a name, select the appropriate type, and upload the bundle zip. Any embedded vRealize Orchestrator instances are discovered automatically.
- 2. Review Migration Assessment Results**
After the migration assessment is run on your source vRealize Automation instance or uploaded source bundle, you can view the results on the Infrastructure, Subscriptions, and Deployment tabs. Each assessed item and its dependencies are identified as ready, ready with warnings, or not ready for migration. You can view the details for each dependency to see additional information.

Learn more
Several types of vRealize Automation 7 system objects are transformed when migrating to vRealize Automation 8 along with many new features. For more information about transitioning to vRealize Automation 8, see: [vRealize Automation 8 Transition Guide](#).

NEXT: ADD A SOURCE INSTANCE

Currently, you can only perform a migration assessment on your source environment and any embedded vRealize Orchestrator instances to determine the migration readiness of your vRealize Automation Cloud 7.4 or later source environment.

Note You cannot perform a migration assessment on both an offline captured source bundle and an online configured source instance of the same source environment. It is recommended to delete one of the assessments if an assessment was performed both offline and online on the same source environment.

When migration becomes available in future releases, content and configuration data from your current vRealize Automation Cloud 7.4 or later source environment will be moved to a target deployment of vRealize Automation Cloud.

Capture Offline Data for Migration Assessment

2

To collect data from your vRealize Automation, vRealize Orchestrator, or external vRealize Orchestrator source environment offline, use the data capture utility.

Using the data capture utility, you can bypass the need to deploy a full vRealize Automation instance to perform data collection and a migration assessment on your source environment. Although the data capture utility can be used for vRealize Automation and vRealize Orchestrator source environments, it is especially useful for external vRealize Orchestrator source environments. When run, the source data is collected and saved as a ZIP bundle.

Prerequisites

Java is required to run the standalone data capture utility.

Procedure

- 1 Download the `capture.jar` file for the `capture_utility` project from the Getting Started Page on the Migration tab in Cloud Assembly.
- 2 Run the `java -Dcontext="shell" -Dspring.liquibase.enabled=false -jar capture.jar` command.

Note By default, the command starts spring-shell on port 8080. To change the port used by spring-shell, run the `-Dserver.port=<portid>` command where `<portid>` is the name/identifier of the desired available port. With this modification, the initial command becomes: `java -Dcontext="shell" -Dspring.liquibase.enabled=false -Dserver.port=<portid> -jar capture.jar`

Note If running on Windows, to override the default character set, run the `-Dfile.encoding=UTF-8` command. With this modification, the initial command becomes `java -Dcontext="shell" -Dspring.liquibase.enabled=false -Dfile.encoding=UTF-8 -Dserver.port=<portid> -jar capture.jar`

The capture jar and spring-shell are started and the liquibase is disabled for database upgrade and check.

3 Provide a properties file that includes the source environment server details:

Server Details	Value
server	vRA/vRO server fqdn or IP address
vraUser	vRA tenant user name
vraPassword	vRA tenant password
vroUser	vRO user name
vroPassword	vRO password

Note To capture external vRealize Orchestrator data, use the external vRealize Orchestrator details in the properties file.

An example properties file:

```
server=cava.n.88.087.eng.vmware.com
vraUser=fritz@coke.sqa.horizon.local
vraPassword=VMware1!
vroUser=administrator@vsphere.local
vroPassword=VMware1!
```

4 To capture the desired source environment data, run the applicable commands:

To collect data from ...	Run ...
Both vRealize Automation and vRealize Orchestrator	capture
vRealize Automation only	captureVra
vRealize Orchestrator only	captureVro

Note For external vRealize Orchestrator, provide the port number with the server. For example, `captureVro server:port`

Note To view the help message, run `capture --help` after running the `capture`, `captureVra`, or `captureVro` commands.

5 After running the capture or captureVra command, run the deployment capture command:

Note You must run a deployment command regardless of need to capture deployment information.

Action	Command
To capture deployments ...	<code>capture --serverFile /tmp/server.txt --tenant qe --filepath /Users/bsopariwala/Desktop --deployments true</code>
	<code>captureVra --serverFile /tmp/server.txt --tenant qe --filepath /Users/bsopariwala/Desktop --deployments true</code>

Action	Command
To not capture deployments ...	<code>capture --serverFile /tmp/server.txt --tenant qe --filepath /Users/bsopariwala/Desktop --deployments false</code>
	<code>captureVra --serverFile /tmp/server.txt --tenant qe --filepath /Users/bsopariwala/Desktop --deployments false</code>

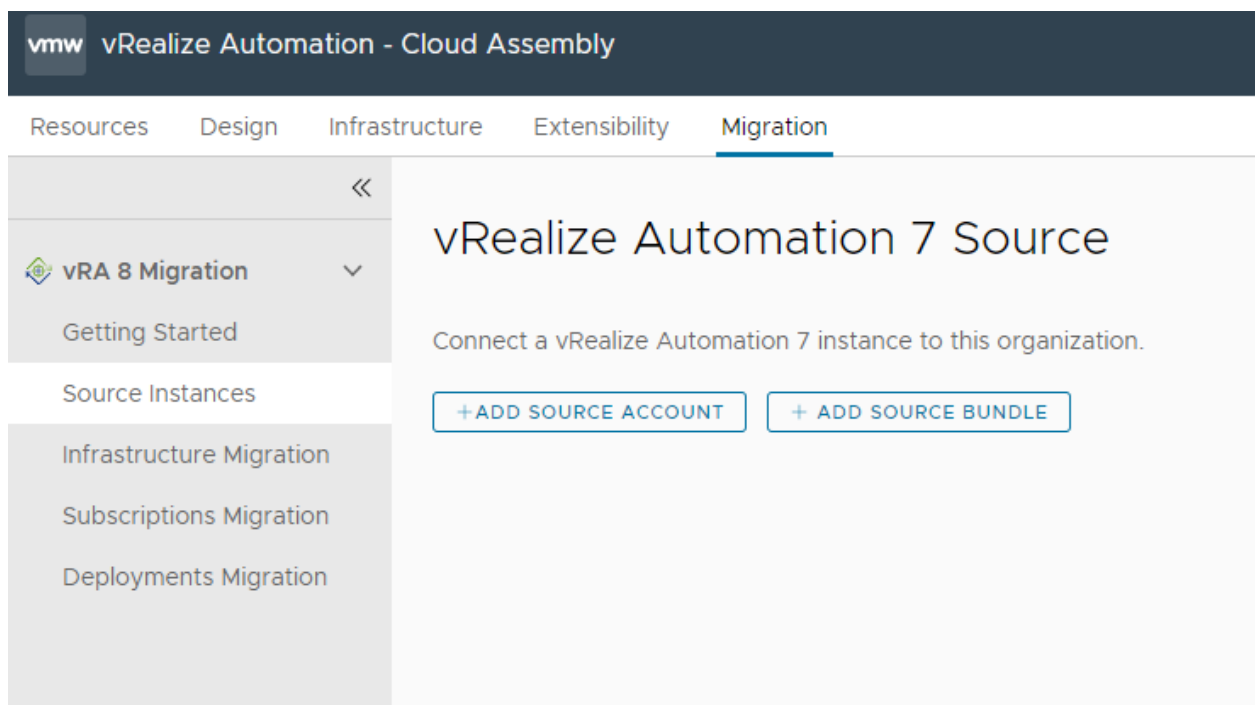
Results

Your source environment data is collected and saved as a source bundle. To run a migration assessment on your source bundle, see [Chapter 3 Run a Migration Assessment on a vRealize Automation Source Bundle](#).

Run a Migration Assessment on a vRealize Automation Source Bundle

3

Using the migration assessment service, you can run a migration assessment on a single vRealize Automation Cloud 7.5 or 7.6 source bundle to determine migration readiness.



The migration assessment includes connecting to your vRealize Automation Cloud source bundle and assessing the vRealize Automation Cloud and embedded vRealize Orchestrator instances.



Upload assessment bundle

Name

Type

BROWSE

CLOSE UPLOAD

The migration assessment reviews your vRealize Automation Cloud source environment and identifies what objects to carry over and migrate. You can review the assessment results and correct items in your source environment that are not correctly set up or ready for migration in the future.

Prerequisites

To create your vRealize Automation Cloud source bundle, see [Chapter 2 Capture Offline Data for Migration Assessment](#).

Procedure

- 1 From the Source Instance page, click **Add Source Bundle**.
- 2 Enter a name for your assessment bundle.
- 3 Select the source bundle type: vRealize Automation or vRealize Orchestrator.
- 4 Click **Browse** and select your source bundle.
- 5 Click **Upload**.

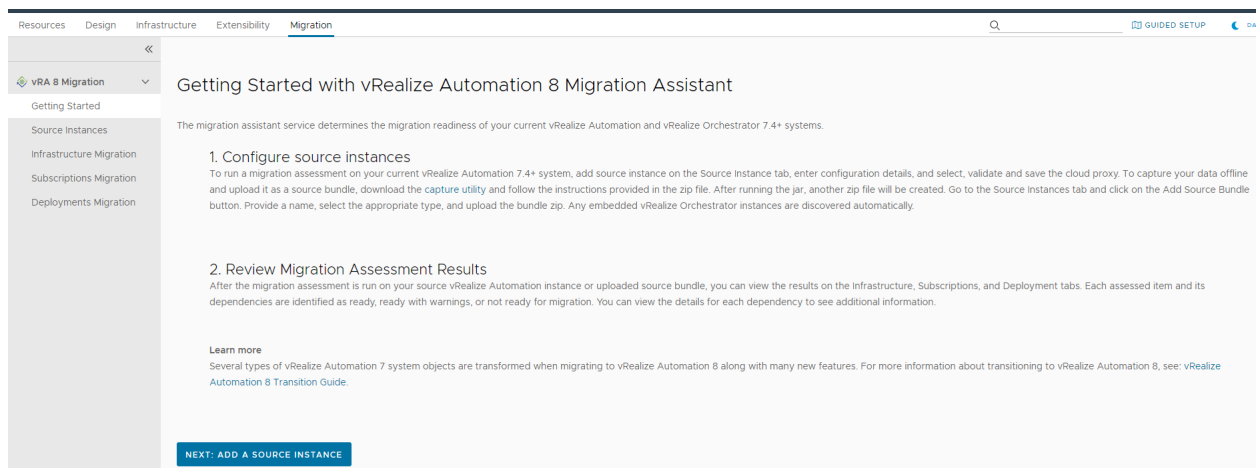
Results

The source bundle is imported to the migration assessment service. To view the migration readiness of the source bundle business groups, click the source bundle on the Source Instances page. If a business group is listed as not ready, edit the business group in your source environment, recapture offline data, and upload the new source bundle to the migration assessment service.

Running a Migration Assessment on a source instance

4

You can run a migration assessment against a single vRealize Automation 7, or vRealize Orchestrator source instance to determine migration readiness.



The migration assessment process includes connecting to your vRealize Automation 7 source instances and assessing the vRealize Automation 7 and embedded vRealize Orchestrator instances.

The migration assessment identifies what objects to carry over and migrate. You can review the assessment results and correct items in your source environment that are not correctly set up or ready for migration.

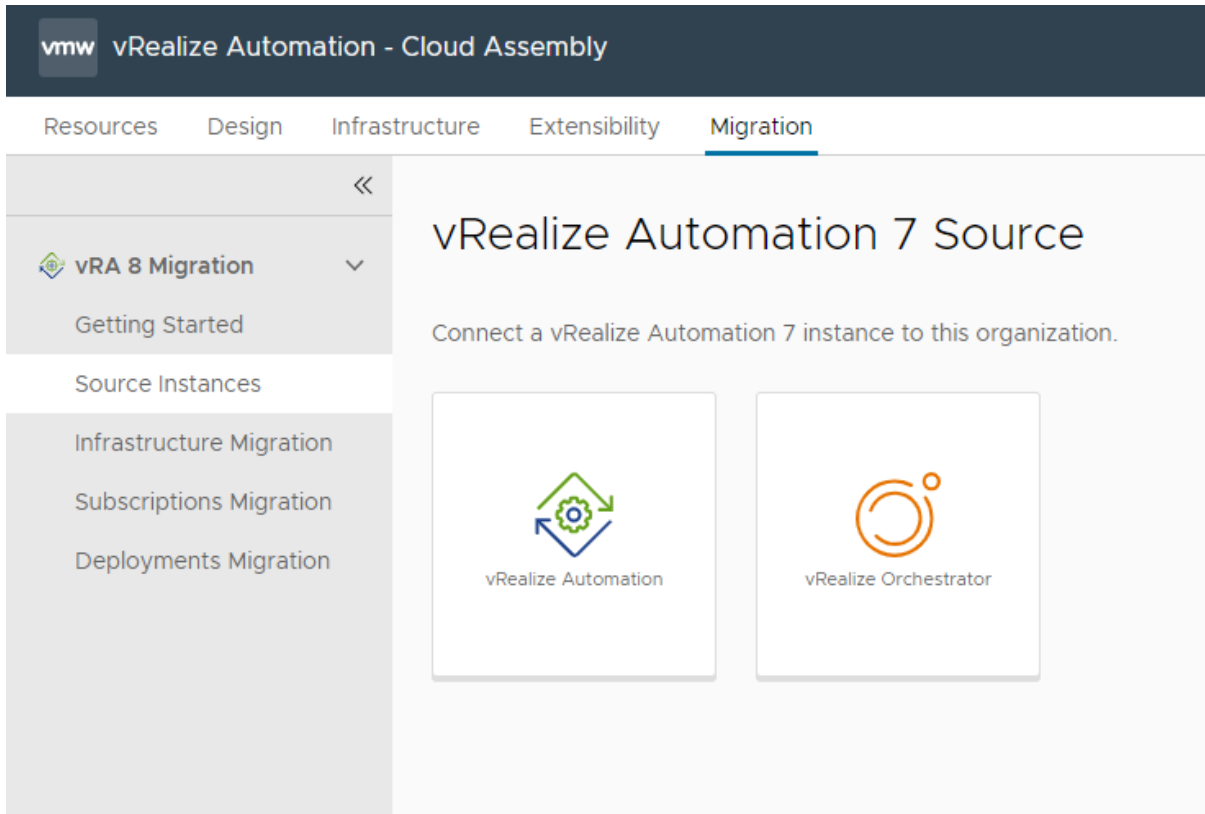
Prerequisites

Before you can connect your vRealize Automation Cloud 7 source instance for assessment, you must download and deploy a cloud proxy VA. To download the cloud proxy VA navigate to **Infrastructure > Cloud Proxies > New**. When configuring the cloud proxy, assign it the Cloud Assembly-migration service.

Procedure

- 1 From the Source Instance page, Click **Add a Source Account**.

- 2 Select a vRealize Automation Cloud or vRealize Orchestrator source type.



- 3 Enter the credentials of your vRealize Automation Cloud 7 or vRealize Orchestrator source environment.

The screenshot shows the 'vRA 8 Migration' configuration page in the 'Cloud Assembly' interface. The page is titled 'Thor-1' and contains the following sections:

- Status:** 'Last updated Jan 27, 2022, 7:10:25 PM' with an 'UPDATE' button and an information icon.
- Source credentials:**
 - Name:** Text input field.
 - Hostname:** Text input field with an information icon.
 - System administrator:** Text input field with an information icon.
 - Password:** Text input field with an information icon.
 - Cloud proxy:** Dropdown menu.
- Configuration:**
 - Allow migrations from these tenants:** A large empty text area for listing tenants.

At the bottom of the form is a 'VALIDATE AND SAVE' button and a 'NEXT: ASSESSMENT' button.

Note You must provide the vRealize Automation primary node's FQDN or an IP address for the source in the hostname text box. For example, test-n-88-087.test.vmware.com

- 4 Select a **Cloud Proxy** from the cloud proxy dropdown.

Note If you don't see your cloud proxy listed, ensure that the Cloud Assembly-migration service is enabled by navigating to **Infrastructure > Cloud Proxies > Details** and selecting **Check for Upgrades**.

- 5 Click **Validate and Save** to validate and identify all the tenants that are available for migration.

Note You must provide the system administrator and password of your source environment to identify all available tenants.

- 6 In **Allow migrations from these tenants**, toggle and select which tenants you want to assess in vRealize Automation Cloud 8.

Note To assess and migrate multi-tenant environments, you must manually create all tenants and run a migration from each tenant individually. All vRA 7 tenants are visible to vRA 8 tenants.

Note When running a migration assessment on an embedded vRealize Orchestrator only, do not select any tenants.

- 7 (Optional) To run the migration on an embedded vRealize Orchestrator , select **Enabled Assessment for the embedded vRealize Orchestrator**.
- 8 Click **Save** to finish the migration assessment of the selected source tenants.

Results

Your source environment is assessed for migration readiness. You can view the details of the source environment configuration on the source instances page. Additionally, you can export the assessment report to your local drive by clicking **Export** on the source instance's tile.

Note Do not export reports containing more than 200 business groups. A report for an assessment larger than 200 business groups will be compiled from assessment service memory and will not contain business group details.

View Assessment Results

5

After running a migration assessment on your source instance, you can view the results.

The assessment results are itemized into tabs in the Migration pane:

- Infrastructure
- Subscriptions
- Deployments

The assessed items are listed with their status:

- Ready - Ready for migration. No action is needed for migration readiness.
- Ready with warnings - Ready but needs review. Remediate any issues that might impact migration. For example, some custom properties can be ready with warnings. The custom property: VMware.Network.Type is partially supported and is flagged as ready with warnings because it is unclear how this property behaves regarding extensibility in vRealize Automation Cloud 8.
- Not Ready - Not ready for migration. Review details of the item in your source environment and correct areas needing attention or deselect these items for migration. If you proceed with migration, items marked as Not Ready are excluded from migration.
- Assessing - Item is still being assessed for migration readiness.
- Assessment failed - The assessment failed, retry assessment.

Note If you make changes to your source environment and want to reassess your environment for migration readiness, you must delete the existing assessment from the portal, rerun the capture utility, and then upload the new source bundle for assessment.
