

# vRealize Automation 8 NSX-V to NSX-T Migration Guide

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

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# vRealize Automation NSX-V to NSX-T (NSX V2T) Migration

# 1

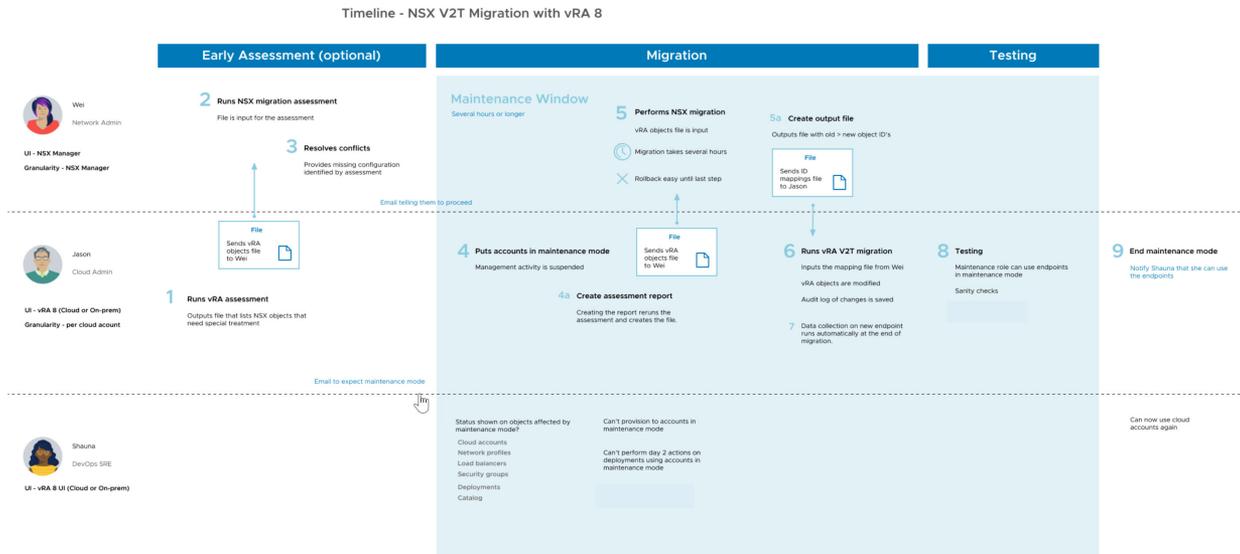
vRealize Automation NSX-V to NSX-T migration enables you to take advantage of the NSX-T Data Center Migration Coordinator from within the constructs of vRealize Automation. While the migration process is primarily run in the vRealize Automation environment, there are several interconnected actions within the process that involve both the vRealize Automation administrator and the NSX administrator working together to share information.

You can migrate your NSX-V Manager (NSX-V) to NSX-T Manager (NSX-T) by using the prescriptive vRealize Automation NSX-V to NSX-T migration assistant in vRealize Automation. The migration assistant consists of a getting started page and sequential migration plan pages.

Each source NSX-V cloud account requires a separate migration plan in the vRealize Automation NSX-V to NSX-T migration assistant.

By migrating your NSX-V cloud accounts and their related objects to NSX-T, you can take advantage of the many enhanced features and functions of NSX-T itself and as integrated within vRealize Automation.

While you work with the migration plan in vRealize Automation, there is a point in the process where the vRealize Automation administrator and the NSX administrator must share files with one another as input to, and output from, the NSX-T Data Center Migration Coordinator utility. The migration plan on-screen help informs you when you and the NSX administrator need to communicate with one another to share the needed files. The following diagram illustrates the basics of this administrator relationship within the migration process workflow.



The vRealize Automation NSX-V to NSX-T migration assistant is available for migrating NSX-V cloud accounts and their related objects to NSX-T within your current vRealize Automation release. It is not available for migrating NSX cloud accounts from one vRealize Automation release to another.

This guide is meant for use with the vRealize Automation NSX-V to NSX-T migration assistant and its prescriptive migration plans. Use this guide to supplement the on-screen instructions provided in the vRealize Automation NSX-V to NSX-T migration plan on-screen guidance.

For information about the related NSX-T Data Center Migration Coordinator utility, see [NSX-T Data Center Migration Coordinator Guide](#).

For more information about the benefits of migrating to NSX-T, see the [Migrate to VMware NSX-T](#) product page and [What's New in NSX-T](#).

## Supported topologies

vRealize Automation supports migration of NSX-V objects to NSX-T release 3.1.1 or later objects, including NSX-T release 3.1.3. It does not support migration of NSX-V objects to NSX-T release 3.1.0 or earlier objects.

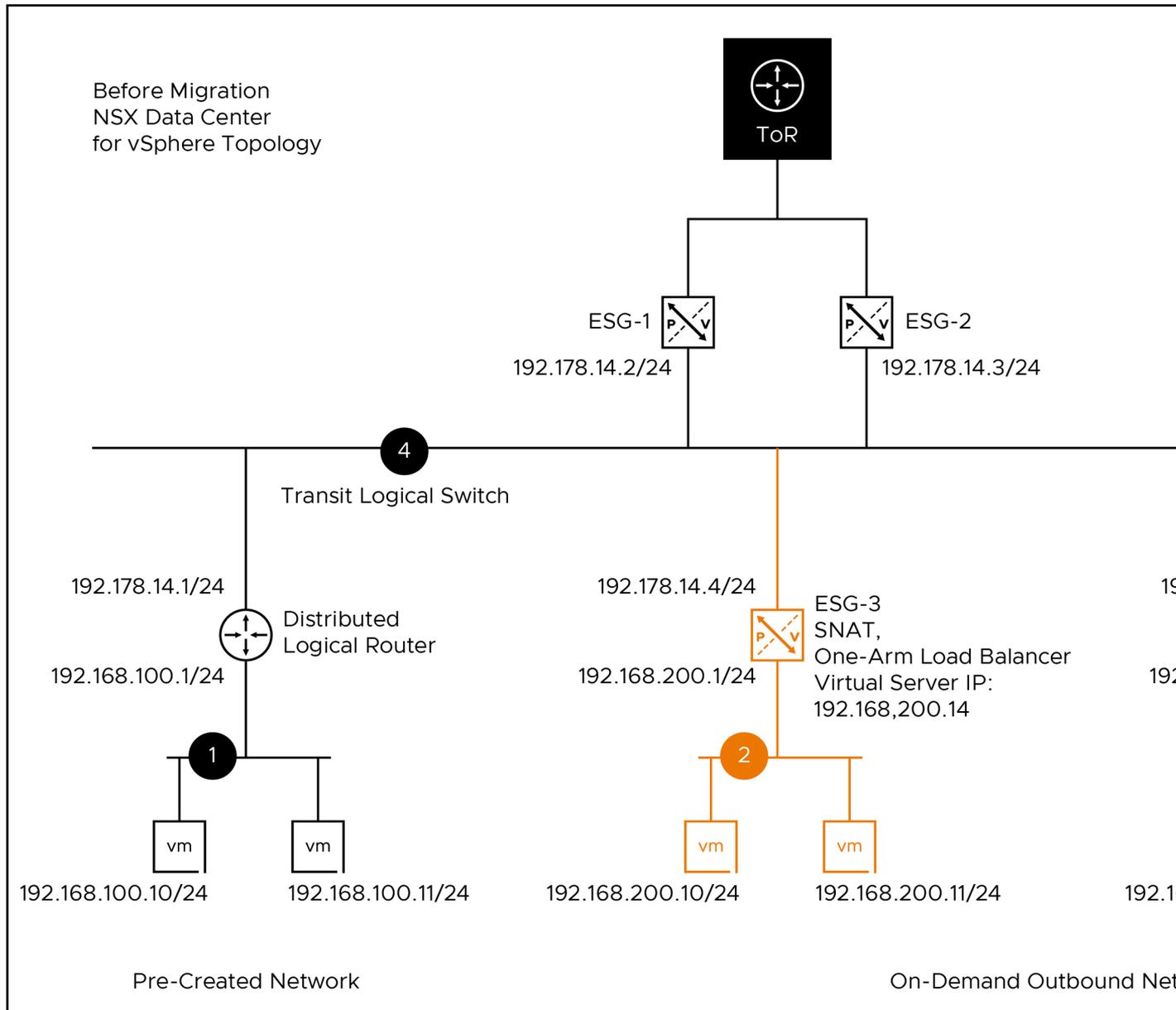
**Note** The vRealize Automation NSX-V to NSX-T migration process is currently designed to work with the Migration Coordinator in NSX-T 3.1.x. The expectation is that the process will also work, in future vRealize Automation releases, with NSX Fixed Mode. vRealize Automation does not currently support either NSX Fixed Mode or NSX User-Defined Mode, both of which were recently introduced in NSX but have not yet been tested and verified in vRealize Automation.

vCenter 6.7 associations are migrated to vCenter 6.7. vCenter 7.0 or greater associations are migrated to vCenter 7.0 or greater.

The following topologies are supported and available for migration:

- Existing networks (Static and DHCP)
- Routed networks (Static and DHCP)
- Private networks (Static and DHCP)
- Existing security groups
- On-demand security groups
- On-demand one armed load balancers on existing networks
- Outbound networks (Static and DHCP) with or without shared gateway
  - User-defined DNAT rules are not supported
  - Load balancers with outbound networks are not supported
- Machine (DHCP IP) connected to an outbound network
- Multiple outbound networks connected through a gateway
- Deployments that contain outbound or private networks that use isolation policy as an on-demand security group
- Private networks that are isolated by a security group
- Outbound networks that are isolated by a security group
- On-demand routed networks with DHCP and one-armed load balancer
- On-demand and existing security groups and load balancer
- On-demand outbound networks with DHCP and load balancer
- Deployments that contain NAT or DNAT rules configured on the NAT or Gateway component
- Routed networks with shared T1
- One-arm load balancer or inline load balancer on any on-demand network
- On-demand inline load balancers on existing networks
- Existing security group tags for global and local cloud accounts and networks

The following diagram illustrates how an ESG/one-arm load balancer is treated during vRealize Automation NSX-V to NSX-T migration.



For related information about supported topologies, see [Topologies Supported for Integration with vRealize Automation](#) in the *NSX-T Data Center Migration Coordinator Guide* in the *NSX-T product documentation*.

## Unsupported topologies

The following topologies are not supported for migration. If the assessment step in the migration plan encounters an unsupported topology, it generates a validation error.

- Deployments that contain NAT or DNAT rules configured on the NAT or gateway component
- Routed networks with shared T1
- One-arm load balancer or inline load balancer on any on-demand network

- On-demand inline load balancers on existing networks
- Deployments that use the public network type

Note: While deployments on public networks are not supported, they are also not currently flagged as such during the assessment stage. If the migration plan contains a deployment on a public network, an error occurs when the plan attempts to create the deployment configuration file. Deployments with public networks will be appropriately flagged in an upcoming release.

## Running data collection if NSX-V and vCenter objects were migrated from vRealize Automation 7.x to vRealize Automation 8.x

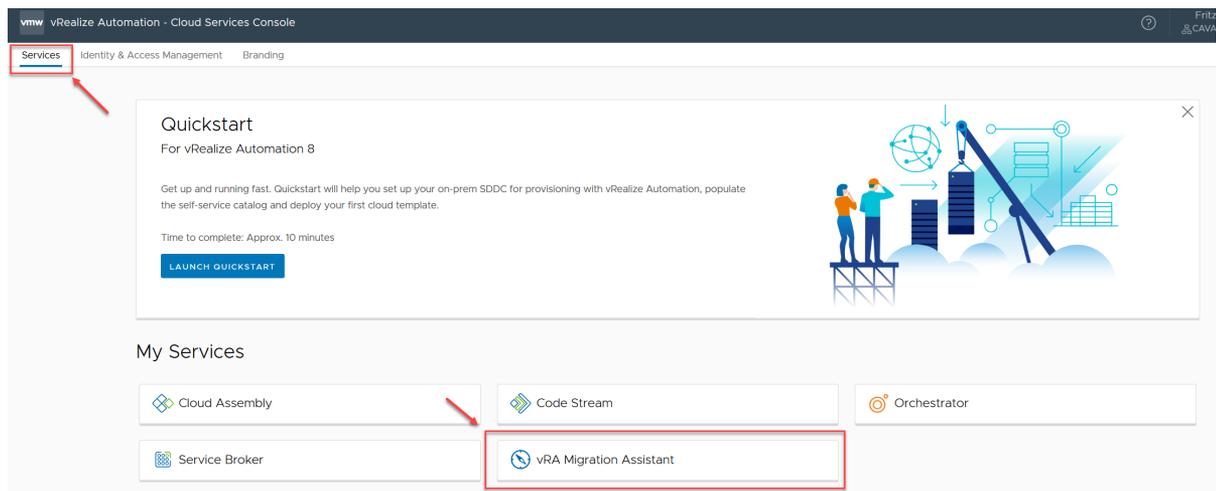
If any deployments in your vRealize Automation environment were migrated from vRealize Automation 7.x to vRealize Automation 8.x, you must run data collection on their NSX-V and vCenter cloud accounts before you create an NSX-V to NSX-T migration plan. This step is needed to collect information about migrated resources such as load balancers and security groups.

## Accessing the vRealize Automation NSX-V to NSX-T Migration Assistant

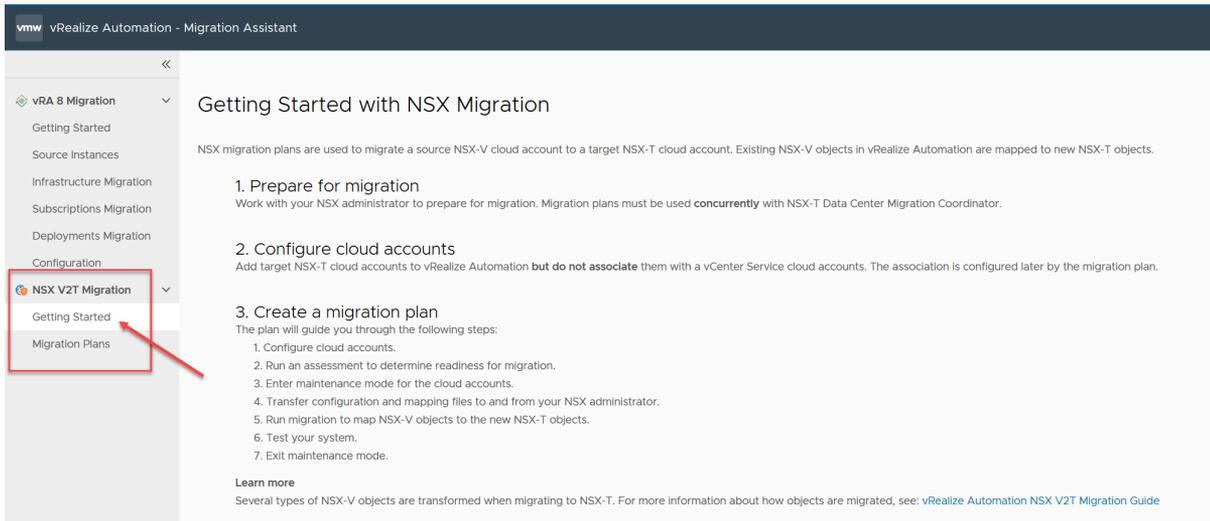
This section provides an overview of the migration process.

Open the vRealize Automation NSX-V to NSX-T migration assistant from the cloud services console.

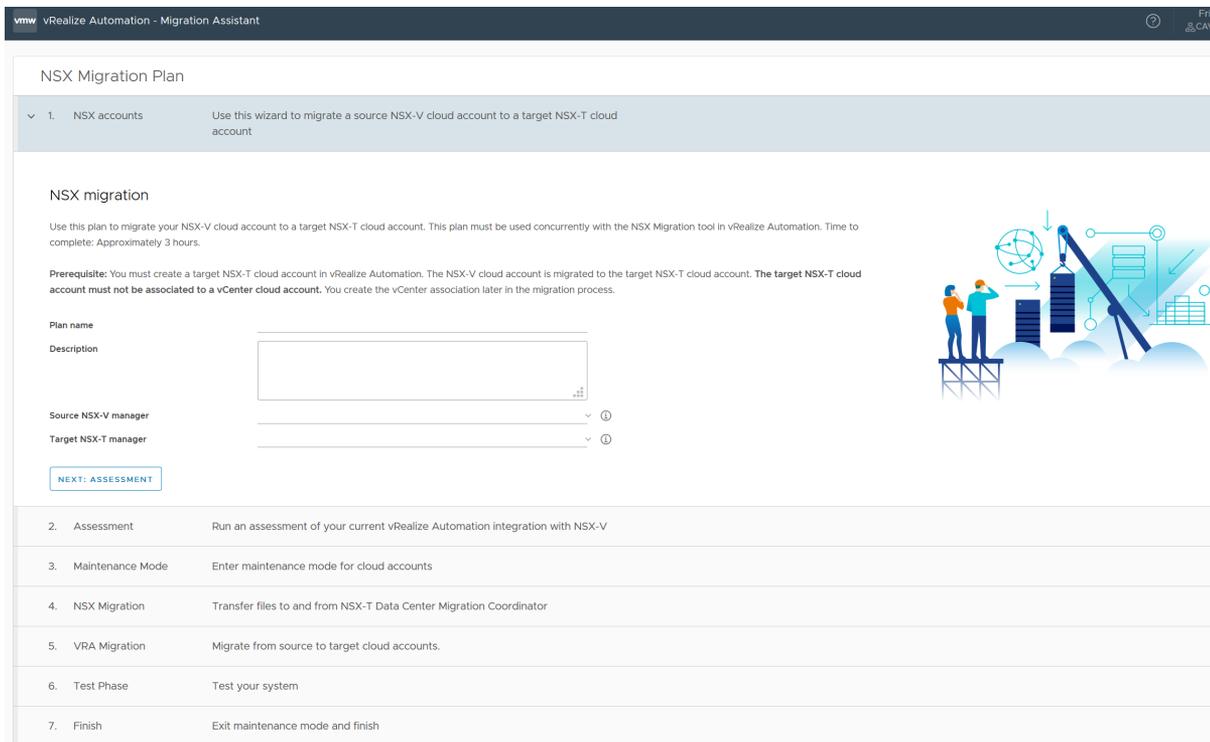
- 1 Using your vRealize Automation administrator credentials and migration role privileges, log in to your **vRealize Automation - Cloud Services Console** and click the **vRA Migration Assistant** service tile.



- 2 Click **Getting Started** from the **NSX V2T Migration** menu. To gain an overview of the process, review the information on the **Getting Started** page. For more information, see [Getting started with vRealize Automation NSX-V to NSX-T migration](#).



- 3 When you are ready to start the migration, click **Migration Plan** from the **NSX V2T Migration** menu and then click **New Plan**.
- 4 The migration plan wizard provides the sequential instruction you need to advance through each step in the process. For more information, see [Creating and running the vRealize Automation NSX-V to NSX-T migration plan](#).



## More information

In addition to this overview, the instruction provided in this guide, and the content in the vRealize Automation NSX-V to NSX-T (NSX V2T) Migration assistant itself, see VMware blog post [Automating NSX-V to NSX-T Migration with vRealize Automation](#) and its accompanying video to learn more about the NSX-V to NSX-T migration process.

This chapter includes the following topics:

- [Getting started with vRealize Automation NSX-V to NSX-T migration](#)
- [Creating and running the vRealize Automation NSX-V to NSX-T migration plan](#)
- [Performing post-migration tasks and working with migrated resources in vRealize Automation](#)

## Getting started with vRealize Automation NSX-V to NSX-T migration

The NSX-V to NSX-T migration process is performed primarily within the context of a vRealize Automation migration plan wizard that uses a series of on-screen instructions and prompts. The vRealize Automation administrator and the NSX administrator do need to communicate with one another ahead of migration and during one of the migration plan steps in the process.

Review the following migration overview to gain an overall understanding of the migration process and its supported topologies before you begin the tasks described on the **Getting Started** page. Links to specific documentation topics that apply to each migration plan page are provided for your reference.

The vRealize Automation NSX-V to NSX-T Migration **Getting Started** page shows the step sequence.

The screenshot shows the vRealize Automation Migration Assistant interface. The title bar reads "vRealize Automation - Migration Assistant". The left sidebar contains a navigation menu with the following items: vRA 8 Migration (expanded), Getting Started, Source Instances, Infrastructure Migration, Subscriptions Migration, Deployments Migration, Configuration, NSX V2T Migration (expanded), Getting Started (highlighted with a red box and a red arrow), and Migration Plans. The main content area is titled "Getting Started with NSX Migration" and contains the following text:

NSX migration plans are used to migrate a source NSX-V cloud account to a target NSX-T cloud account. Existing NSX-V objects in vRealize Automation are mapped to new NSX-T objects.

1. Prepare for migration  
Work with your NSX administrator to prepare for migration. Migration plans must be used **concurrently** with NSX-T Data Center Migration Coordinator.
2. Configure cloud accounts  
Add target NSX-T cloud accounts to vRealize Automation **but do not associate** them with a vCenter Service cloud accounts. The association is configured later by the migration plan.
3. Create a migration plan  
The plan will guide you through the following steps:
  1. Configure cloud accounts.
  2. Run an assessment to determine readiness for migration.
  3. Enter maintenance mode for the cloud accounts.
  4. Transfer configuration and mapping files to and from your NSX administrator.
  5. Run migration to map NSX-V objects to the new NSX-T objects.
  6. Test your system.
  7. Exit maintenance mode.

**Learn more**  
Several types of NSX-V objects are transformed when migrating to NSX-T. For more information about how objects are migrated, see: [vRealize Automation NSX V2T Migration Guide](#)

## 1. Prepare for migration

Work with your NSX administrator to prepare for migration. Each migration plan requires input to and output from the NSX-T Data Center Migration Coordinator utility in NSX. During migration, the migration plan on-screen help informs you when you need to share data files with the NSX administrator.

Coordination between you, as the vRealize Automation administrator, and the NSX administrator is helpful for successful migration. Inform them of your plans so that they can make time in their schedule to help you by importing and exporting files in the NSX-T Data Center Migration Coordinator utility, which is the utility that performs the underlying NSX migration. During step 4 in the migration plan, you and the NSX administrator must share NSX-T Data Center Migration Coordinator files with one another, as described in [Creating and running the vRealize Automation NSX-V to NSX-T migration plan](#). For more information about the NSX-T Data Center Migration Coordinator, see [Migrating NSX Data Center for vSphere \(NSX-V\) with vRealize Automation in VMware NSX-T Data Center Documentation](#).

## 2. Configure cloud accounts

Before you can migrate your NSX-V cloud accounts to NSX-T using the vRealize Automation NSX-V to NSX-T migration assistant, you must create a new and unassociated NSX-T target cloud account in vRealize Automation for each source NSX-V cloud account.

Add a new target NSX-T cloud account to vRealize Automation for each source NSX-V cloud account in your vRealize Automation projects.

You must create one target NSX-T cloud account for each source NSX-V cloud account to be migrated. You specify the 1:1 mapping from a source NSX-V cloud account to a target NSX-T cloud account when you create the migration plan. Each 1:1 cloud account mapping requires its own separate migration plan. The plan step is described in [Creating and running the vRealize Automation NSX-V to NSX-T migration plan](#).

- The target NSX-T cloud account must be at NSX-T Data Center version 3.1.1 or higher.
- You must specify the **Policy API method** option when you create the target NSX-T cloud account. The **Manager API method** is not supported by the migration utility for a target NSX-T cloud account.
- The target NSX-T cloud account *must not* be associated to a vCenter or vCenter Server cloud account. You create that association later in the process.
- The NSX-T cloud account specified must not be in use by a vRealize Automation deployment.

For information about how to create an NSX-T cloud account, see [Create an NSX-T cloud account in vRealize Automation](#) in *Using and Managing vRealize Automation Cloud Assembly* in the [vRealize Automation product documentation](#).

### 3. Create an NSX-V to NSX-T migration plan

By starting the vRealize Automation NSX-V to NSX-T migration utility, you begin to populate the NSX migration plan by following the perspective on-screen instructions and prompts.

The NSX migration plan guides you through the following required steps:

- 1 Configure source and target cloud accounts.
- 2 Run an assessment to determine readiness for migration.
- 3 Enter maintenance mode for the cloud accounts.
- 4 Transfer configuration and mapping files to and from your NSX administrator.
- 5 Run migration to map source NSX-V objects to new target NSX-T objects.
- 6 Test your system.
- 7 Exit maintenance mode for the cloud accounts.

See [Creating and running the vRealize Automation NSX-V to NSX-T migration plan](#).

## Creating and running the vRealize Automation NSX-V to NSX-T migration plan

Use the step by step on-screen migration plan instructions and supporting documentation to migrate your source NSX-V cloud accounts to target NSX-T cloud accounts and map your existing NSX-V objects in vRealize Automation to new NSX-T objects.

Before you can create your migration plan, you must perform the tasks described on the **Getting Started** page. See [Getting started with vRealize Automation NSX-V to NSX-T migration](#).

The **Migration Plan** pages contain sequential steps that you need to perform to successfully migrate a source NSX-V cloud account and its associated objects to NSX-T within vRealize Automation.

Each step in the numbered sequence of migration plan pages requires successful completion of the previous plan page. The migration plan advances in a linear sequence. Each numbered page represents a stage in the process.

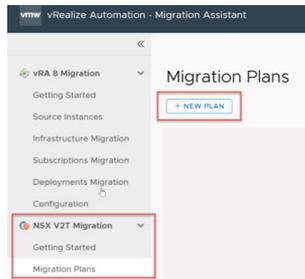
### Prerequisites

To create and run a migration plan, you require the following service roles:

- Cloud Assembly Administrator  
See [What are the vRealize Automation user roles](#).
- vRA Migration Assistant Administrator  
See [Organization and service user roles in vRealize Automation](#).

## Create a new plan

From the vRealize Automation Migration Assistant service page, click **NSX V2T Migration > Migration Plans > New plan** to start your new migration plan.

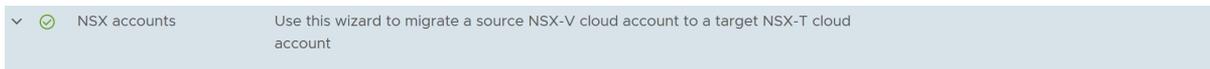


The 7 step migration plan page appears. Proceed sequentially through each step of the plan.

### 1. NSX accounts - Add source and target NSX accounts

Enter your new vRealize Automation NSX-V to NSX-T migration plan name and enter the 1:1 mapping for your source NSX-V cloud account and its target NSX-T cloud account.

- 1 Enter a migration plan name. You can optionally enter a plan description.



#### NSX migration

Use this plan to migrate your NSX-V cloud account to a target NSX-T cloud account. This plan must be used concurrently with the NSX Migration tool in vRealize Automation. Time to complete: Approximately 3 hours.

**Prerequisite:** You must create a target NSX-T cloud account in vRealize Automation. The NSX-V cloud account is migrated to the target NSX-T cloud account. **The target NSX-T cloud account must not be associated to a vCenter cloud account.** You create the vCenter association later in the migration process.

Plan name	tairskiv
Description	<input type="text"/>
Source NSX-V manager	mp-nsxv
Target NSX-T manager	mp-nsxt

[NEXT: ASSESSMENT](#)

- 2 Enter the existing vRealize Automation source NSX-V Manager cloud account name.

Each source NSX-V cloud account requires a separate migration plan in the vRealize Automation NSX-V to NSX-T migration assistant.

The source NSX-V cloud account must be associated with a vCenter 7.0 or later cloud account.

- 3 Enter the vRealize Automation target NSX-T Manager cloud account name.

This is the target NSX-T cloud account that you created during the prerequisite phase of migration using instructions on the **Getting Started** page.

The target NSX-T cloud account must meet the following conditions:

- The target NSX-T cloud account must be at NSX-T Data Center version 3.1.1 or higher.
  - You must specify the **Policy API method** option when you create the target NSX-T cloud account. The **Manager API method** is not supported by the migration utility for a target NSX-T cloud account.
  - The target NSX-T cloud account *must not* be associated to a vCenter or vCenter Server cloud account. You create that association later in the process.
  - The NSX-T cloud account specified must not be in use by a vRealize Automation deployment.
- 4 Click **Next: Assessment** to move to the next page in the plan and continue with the migration process.

## 2. Assessment - Run an assessment of your current vRealize Automation integration with NSX-V

Determine the migration readiness of the source NSX-V cloud account and its related objects to NSX-T. Also determine the readiness of the target NSX-T cloud account to receive the migrated objects.

- 1 Click **Run assessment** to run the initial assessment.
- 2 If the assessment displays an error, examine the output messages.

2. Assessment Run an assessment of your current vRealize Automation integration with NSX-V

Assessment evaluates NSX-V objects to determine if they can be migrated.

RUN ASSESSMENT
EXPORT

Summary
Deployments
Network Profiles
Networks
Load Balancers
Security Groups

**Summary**

**Name** ff

**Assessment status** ↻ Ready

**Last run** Nov 20, 2020, 1:01:20 PM

**Cloud accounts**

Name	Assessment Status	Description
v2t-nsxv	Ready	NSXV cloud account : 'v2t-nsxv' supported.
v2t-vcenter	Ready	vSphere cloud account : 'v2t-vcenter' supported.
v2t-nsxt	Ready	NSXT cloud account : 'v2t-nsxt' supported.

- 3 Based on the messages that you receive, open the **Summary** tab and each relevant tab to check for readiness.

Assessment evaluates NSX-V objects to determine if they can be migrated.

[RUN ASSESSMENT](#) [EXPORT](#)

**Summary** | Deployments | Network Profiles | Networks | Load Balancers | Security Groups

**Summary**

**Name** mp-new-plan

**Assessment status** ⓘ Not ready

**Last run** Nov 22, 2020, 2:59:29 PM

**Cloud accounts**

Name	Assessment Status	Description
mp-nsxv	Ready	NSXV cloud account : 'mp-nsxv' supported.
mp-nsxt	Not Ready	NSXT cloud account : 'mp-nsxt' supported.

[NEXT](#)

Make any needed corrections and then click **Run assessment** again.

- Open each tab to examine the objects that are ready for migration.

For example, open the **Networks** tab and examine the network objects that are ready for migration.

2. Assessment Run an assessment of your current vRealize Automation integration with NSX-V

Assessment evaluates NSX-V objects to determine if they can be migrated.

[RUN ASSESSMENT](#) [EXPORT](#)

Summary | Deployments | Network Profiles | **Networks** | Load Balancers | Security Groups

Name	Assessment Status	Details
3-switch-1682	Ready	Fabric Network : Fabric Network '3-switch-1682' is supported.
PC-NW-ROUTED-mcm80-154146315622	Ready	Fabric Network : Fabric Network 'PC-NW-ROUTED-mcm80-154146315622' is supported.
1-switch-1715	Ready	Fabric Network : Fabric Network '1-switch-1715' is supported.
2-switch-70	Ready	Fabric Network : Fabric Network '2-switch-70' is supported.
4-switch-1501	Ready	Fabric Network : Fabric Network '4-switch-1501' is supported.
PC-NW-PRIVATE-mcm79-154146312273	Ready	Fabric Network : Fabric Network 'PC-NW-PRIVATE-mcm79-154146312273' is supported.

1 - 6 of 6 items

[NEXT](#)

- When you are satisfied with the assessment and are ready to continue, click **Export**.

You can use the exported file to help you with post-migration testing prior to taking the cloud accounts out of maintenance mode.

- Click **Next** to move to the next page in the plan and continue with the migration process.

### 3. Maintenance Mode - Enter maintenance mode for the cloud accounts

Put the cloud accounts that you are about to migrate into maintenance mode. When a cloud account is in maintenance mode, all allocation, provisioning, day 2 actions, and scheduled enumeration is stopped for that cloud account. This ensures that no impacted vRealize Automation deployments can be initiated, edited, or in operation while its affiliated NSX-V cloud account is in the process of being migrated to NSX-T.

While maintenance mode prevents the use of the cloud account, and any objects that are related to the cloud account, during the migration process, vRealize Automation administrators who have the *Migration Administrator Service* role are provided with testing access.

- Click **Enter maintenance mode**.

- 2 As prompted, create a backup of your vRealize Automation environment.

For information about how to create a backup in vRealize Automation, see the *Backup and Restore, and Disaster Recovery > 2019* section of [vRealize Suite product documentation](#).

- 3 After you have created the needed backup, click **Backups are created and I am ready to continue** and then click **Next** to move to the next page in the plan and continue with the migration process.

Maintenance Mode    Enter maintenance mode for cloud accounts

These cloud accounts must be in maintenance mode during migration. While in maintenance mode data collection is paused and provisioning is disabled for users that do not have the Migration Administrator role.

ENTER MAINTENANCE MODE    EXIT MAINTENANCE MODE

Cloud Account	Status	Description
v2t-nsxv	🔒 In maintenance	
v2t-nsxt	🔒 In maintenance	
v2t-vcenter	🔒 In maintenance	

⚠️ Now that the accounts have been placed into maintenance mode, **save a backup** to ensure that a stable system can be restored in case of error. Documentation ✕

Backups are created and I am ready to continue.

NEXT

## 4. NSX Migration - Transfer files to and from the NSX-T Data Center Migration Coordinator

Generate a deployment configuration file for input to the NSX-T Data Center Migration Coordinator service. You give that configuration file to the NSX administrator for their input to the NSX-T Data Center. You then receive and import a mapping output file, which is generated by the NSX-T Data Center coordinator service and which you obtain from the NSX administrator.

This procedure describes tasks that are performed by the vRealize Automation administrator in vRealize Automation and tasks that are performed by the NSX administrator in NSX. The vRealize Automation administrator and the NSX administrator can be different people or they may be the same person.

- 1 As prompted, create the deployment configuration file by clicking **Create File**.

📄 Create Deployment Configuration File

Reassess to ensure all information is up to date then create and download the Deployment Configuration File. This file is required as input for NSX-T Data Center Migration Coordinator.

REASSESS    CREATE FILE

ⓘ Send the Deployment Configuration File to your NSX administrator. NSX-T Data Center Migration Coordinator can take over 2 hours to complete. You can close this plan and return when you receive the Output Mapping File. ✕

**Note** If you receive errors or warnings about objects that are not ready for migration, address the issues as suggested and then click **Reassess**. The **Create File** option is not re-enabled until you click **Reassess** and receive no further errors or warnings.

- 2 Respond to prompts to save the .json file and review the instructions about where to send the file.

The screenshot shows a web browser window with a file download dialog box open. The dialog box title is "Opening vra\_input\_f5a4ecdd-ad86-46e6-8db4-7dae4104029e.json". It contains the following text: "You have chosen to open: vra\_input\_f5a4ecdd-ad86-46e6-8db4-7dae4104029e.json which is: Text Document (749 bytes) from: blob:". Below this, it asks "What should Firefox do with this file?" with three options: "Open with Notepad (default)" (selected), "Save File", and "Do this automatically for files like this from now on." There are "OK" and "Cancel" buttons at the bottom of the dialog.

The background shows a migration plan page with a progress bar at 80%. The current step is "4. NSX Migration" with the sub-step "Transfer files to and from NSX-T Data Center Migration Coordinator". The page contains two main sections: "Create Deployment Configuration File" and "Import the Output Mapping File".

**Create Deployment Configuration File**  
 Reassess to ensure all information is up to date then create and download the Deployment Configuration File. This file is required as input for NSX-T Data Center Migration Coordinator.  
 Buttons: REASSESS, CREATE FILE  
 A blue notification box says: "Send the Deployment Configuration File to your NSX administrator. NSX-T Data Center Migration Coordinator can take over 2 hours to complete. You can close this plan and return when you receive the Output Mapping File."

**Import the Output Mapping File**  
 After NSX-T Data Center Migration Coordinator is completed an output Mapping File is created. This file is required to continue.  
 Button: IMPORT FILE

**Note** If your NSX-V deployment uses the public network type, the JSON file fails to generate and you receive the following or similar error:

```
Deployment configuration generation failed with
- '400 : {"exception":"java.lang.RuntimeException","path":"/assessment/v2t/generateDeploymentConfiguration","message":"java.util.concurrent.ExecutionException: java.lang.IllegalArgumentException: Could not determine network type for resource [12c20495-bb01-4480-bf99-f1182d1a4101] and type [public]","status":"400 BAD_REQUEST"}'.
```

- 3 After the deployment configuration file is generated, and as prompted, send it to the NSX administrator and ask them to import it into the NSX-T Data Center Migration Coordinator service.

The NSX administrator imports the file into the NSX-T Data Center Migration Coordinator service, which subsequently generates the output mapping file that you need to complete the next step on this migration plan page. For information about the process by which the NSX administrator imports the file into the NSX-T Data Center Migration Coordinator service, see [Import the NSX Data Center for vSphere Configuration in the NSX-T Data Center Migration Coordinator Guide](#).

It can take some time between this step and the next. During this wait period, your cloud accounts remain in maintenance mode.

- 4 Obtain the output mapping file, which is generated by the NSX-T Data Center Migration Coordinator, from the NSX administrator.

The NSX-T Data Center Migration Coordinator can generate a partial or a complete output mapping file. The migration plan requires a complete output mapping file. To save time and avoid confusion, confirm with the NSX administrator that they are giving you the complete, not partial, output mapping file.

- 5 Click **Import File** and import the NSX-T Data Center Migration Coordinator output mapping file supplied to you by the NSX administrator.



Import the Output Mapping File

After NSX-T Data Center Migration Coordinator is completed an output Mapping File is created. This file is required to continue.

IMPORT FILE

When you import the completed output mapping file from NSX-T Data Center Migration Coordinator, the migration plan uses it to migrate cloud accounts and their related objects in vRealize Automation.

If you import a partial output mapping file, the import task eventually fails with the following error message: `The output mapping file was downloaded before the NSX migration completed. Use the output mapping file downloaded after the migration process completed.`

For information about the contents of an output mapping file, see [Overview of Output Mapping File](#) in the *NSX-T Migration Coordinator Guide* in [NSX-T Data Center product documentation](#).

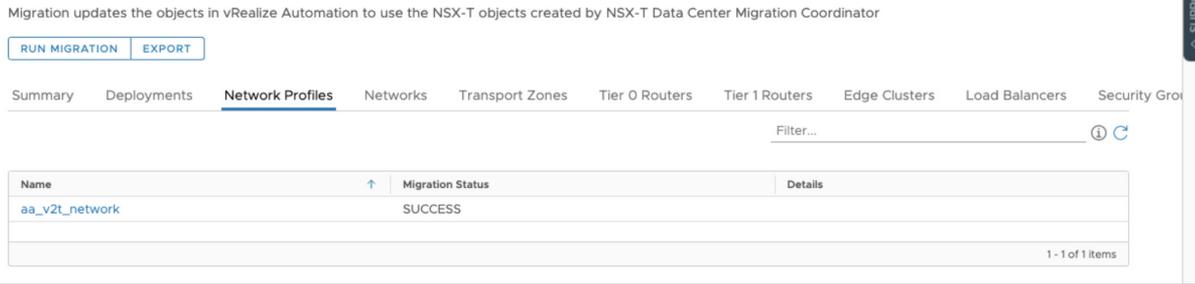
- 6 When the import task is finished successfully, click **Next** to move to the next page in the plan and continue with the migration process.

## 5. vRA Migration - Migrate from source to target cloud accounts

Run migration to map the source NSX-V cloud account and its related objects in vRealize Automation to the target NSX-T cloud account.

This stage of the migration uses data from the NSX-T Data Center Migration Coordinator output mapping file (which you imported on the previous page in the migration plan) to migrate your NSX-V cloud account to NSX-T in vRealize Automation.

- 1 Click **Run migration** to migrate the NSX-V cloud accounts and their associated objects in vRealize Automation to NSX-T cloud accounts and objects.
- 2 When the **Run migration** is complete, a summary message appears.



If the **Run migration** action is not successful, examine the output messages on the **Summary** page and open each relevant tab to discover where problems were found.

Depending on what problems may have occurred during migration, you might decide to continue or to use the snapshot backups that you created earlier to discard the migration and restore your cloud accounts and objects to their pre-migration status. If the objects have been migrated in the NSX-T Data Center Migration Coordinator, you would also need to roll back the actual NSX migration.

- 3 Click **Export** to generate a history file of the migration for your future reference.
- 4 Click **Next** to move to the next page in the plan and continue with the migration process.

## 6. Test Phase - Test your system

After migration is complete, leave your cloud accounts in maintenance mode and run tests to verify the migration results.

The cloud accounts and their related objects are still in maintenance mode and no work can be done on them. However, vRealize Automation administrators who have the *Migration Assistant Administrator* role can access the cloud account objects for post-migration testing. vRealize Automation administrators who have the *Migration Assistant Administrator* role can perform limited testing on cloud accounts that are in maintenance mode. For more information about roles, see [What are the vRealize Automation user roles](#).

Ideally you will have created a test plan for your organization, but general suggestions for testing are provided on-screen and include the following basics. Reference the assessment files that you exported on pages 2 and 5 of the migration plan as part of your post-migration testing.

- Review any warnings that were generated during migration.
- Test the 1:1 cloud account mapping that you specified in plan step 1.
- Test a sample or all of the impacted cloud templates and deployments.
- Examine mapped NSX load balancers, networks, and security groups to verify that they are configured as expected.
- Provision and destroy applications by deploying cloud templates and confirming that the applications land on the correct endpoint and that they are functional.
- Monitor previously deployed applications to verify that they are functioning as intended.

After you complete post-migration testing, click **Next** to move to the next page in the plan and complete the migration process.

## 7. Finish - Exit maintenance mode and finish

After you have completed your post-migration testing, remove the cloud accounts from maintenance mode and exit the vRealize Automation NSX-V to NSX-T migration plan.

- 1 Select the vRealize Automation resources that are currently in maintenance mode and remove their maintenance mode marker. Respond to any prompts.
- 2 To complete the cloud account migration process and exit the plan, click **Finish**.

### Perform post-migration cleanup tasks in vCenter

After you exit the migration plan, you must perform some post-migration cleanup tasks in the associated vCenter environments. See [Performing post-migration tasks and working with migrated resources in vRealize Automation](#).

## Performing post-migration tasks and working with migrated resources in vRealize Automation

Congratulations on your successful NSX-V to NSX-T migration. Your NSX-T objects are now available for use in the vRealize Automation projects that you manage. However, there are some final cleanup steps needed in vCenter.

To complete the overall migration process, you'll need to perform some final post-migrations tasks, particularly around NSX-V object clean-up in your vCenter environment. After you have completed these final post-migration tasks, you can share information with your users about moving forward with the migrated resources.

### Perform post-migration cleanup tasks

After you have verified your successful migration, you need to do some post-migration cleanup of any remaining NSX-V items. For example, you should delete expired controllers, edges, vCenter plug-ins, configuration files, and so on. This is a manual step and is described in the [Uninstalling NSX for vSphere After Migration](#) topic of the [NSX-T Data Center Migration Coordinator Guide](#) in [NSX-T Data Center product documentation](#).

### Work with migrated NSX resources

For information about using NSX-T objects in vRealize Automation, see [Using and Managing vRealize Automation Cloud Assembly in vRealize Automation product documentation](#).

For information about working with NSX-T itself, see [NSX-T Data Center product documentation](#).