

# Migrating vRealize Automation 6.2 to 7.1

vRealize Automation 7.1

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# Contents

Updated Information	5
<b>1 Migrating a vRealize Automation Environment</b>	<b>7</b>
Migration Prerequisites	7
Prepare to Migrate Tenants and Identity Stores for Linux	8
Prepare to Migrate Tenants and Identity Stores for Windows	9
Migrate a vRealize Automation Environment with an IaaS Database Backup	9
Migrate a vRealize Automation Deployment with Automatic IaaS Database Cloning	12
Post-Migration Task for Environments with an Internal vRealize Orchestrator	14
Validate the vRealize Automation Migrated Environment	16
<b>2 Troubleshooting Migration</b>	<b>17</b>
PostgreSQL Version Causes Error	17
Index	19



# Updated Information

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This *vRealize Migration* guide is updated with each release of the product or when necessary.

This table provides the update history of the *vRealize Migration* guide.

Revision	Description
EN-002195-02	<ul style="list-style-type: none"><li>■ Revised step 3a in <a href="#">“Migrate a vRealize Automation Environment with an IaaS Database Backup,”</a> on page 9.</li><li>■ Revised step 1a in <a href="#">“Migrate a vRealize Automation Deployment with Automatic IaaS Database Cloning,”</a> on page 12</li></ul>
EN-002195-01	<ul style="list-style-type: none"><li>■ Moved all migration topics into the VMware vRealize Automation 7.1 Information Center.</li><li>■ Revised <a href="#">“Prepare to Migrate Tenants and Identity Stores for Linux,”</a> on page 8.</li><li>■ Revised <a href="#">“Prepare to Migrate Tenants and Identity Stores for Windows,”</a> on page 9.</li><li>■ Revised <a href="#">“Migrate a vRealize Automation Environment with an IaaS Database Backup,”</a> on page 9.</li><li>■ Revised <a href="#">“Migrate a vRealize Automation Deployment with Automatic IaaS Database Cloning,”</a> on page 12.</li><li>■ Revised <a href="#">“PostgreSQL Version Causes Error,”</a> on page 17</li></ul>
EN-002195	Initial release.



# Migrating a vRealize Automation Environment

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# 1

You can perform a side-by-side upgrade of your current vRealize Automation 6.2.x environment using migration.

Migration moves the data in your current vRealize Automation 6.2.x environment to a new 7.1 environment that mirrors your current environment. Migration does not change your current 6.2.x environment. You cannot use migration to upgrade a vRealize Automation 7 or 7.0.1 environment to 7.1. If your current environment is integrated with vCloud Director, vCloud Air or has physical endpoints, you must use migration to upgrade. Migration removes all unsupported endpoints and everything associated with them in the 7.1 environment.

This chapter includes the following topics:

- [“Migration Prerequisites,”](#) on page 7
- [“Migrate a vRealize Automation Environment with an IaaS Database Backup,”](#) on page 9
- [“Migrate a vRealize Automation Deployment with Automatic IaaS Database Cloning,”](#) on page 12
- [“Post-Migration Task for Environments with an Internal vRealize Orchestrator,”](#) on page 14
- [“Validate the vRealize Automation Migrated Environment,”](#) on page 16

## Migration Prerequisites

Review these prerequisites before you perform migration.

You have two options for migrating tenants and identity stores. The option you choose depends on whether you enable or disable **Enable SSO2 migration** on the **Migration** tab of the vRealize Automation management console.

- If **Enable SSO2 migration** is selected, migration automatically moves vRealize Automation 6.2.x tenants and identity stores to Horizon .

If you choose this option, you must first perform one of the following procedures before running migration: [“Prepare to Migrate Tenants and Identity Stores for Linux,”](#) on page 8 or [“Prepare to Migrate Tenants and Identity Stores for Windows,”](#) on page 9.

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**NOTE** The selected **Enable SSO2 migration** option does not support vSphere SSO. If you plan to migrate from vSphere SSO, use the deselected **Enable SSO2 migration** option.

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- If **Enable SSO2 migration** is deselected, you manually migrate tenants and identity stores using the procedures for an in-place upgrade before you run migration. See "Migrate Identity Stores to the VMware Identity Manager" in [Upgrading from vRealize Automation 6.2 to 7.1](#).

## Prerequisites

- Verify that you have a new target installation of vRealize Automation 7.1 whose components reflect the source 6.2.x environment.
- Verify that endpoint names configured for agents, such as vSphere agents, running on the target system match the endpoint names used by the source installation.
- Verify that installed agent names are the same on both source and target systems for Hyper-V Hypervisor proxy agents, Citrix Xen Servers and Test agents.
- To migrate to a cluster deployment, do the following when you deploy your vRealize Automation 7.1 target environment:
  - a Deploy a master and one or more secondary nodes.
  - b Configure the master node in the load balancer.
  - c Install vRealize Automation 7.1 in distributed mode on master but do not add any secondary nodes during the installation.
- Verify that the target Microsoft SQL Server version for the vRealize Automation 7.1 IaaS database is either 2012 or 2014.
- Verify that target Model Manager node has connectivity with the source and target Microsoft SQL Servers.
- Verify that SSH is enabled on both the source and target vRealize Automation virtual appliances.
- Verify that no VMware vCloud Application Director is configured.
- Verify that each IaaS server node in the target environment has at least Java SE Runtime Environment (JRE) 8, Update 91 (64 bit) installed. After you install the JRE, make sure the JAVA\_HOME system variable points to the Java version you installed on each IaaS node, and adjust the path if necessary.
- Verify that each IaaS node has at least PowerShell 3.0 installed.

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**NOTE** PowerShell 3.0 is integrated with Windows Server 2012.

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- Verify that the source and target vRealize Automation environments are running.
- Migrate tenants and identity stores.

## Prepare to Migrate Tenants and Identity Stores for Linux

You can migrate tenants and identity stores from the source vRealize Automation 6.2.x environment to the target vRealize Automation 7.1 environment.

Perform these steps to copy JAR files from the source 6.2.x SSO2 Identity Server to the target vRealize Automation 7.1 virtual appliance.

### Procedure

- 1 Open a secure shell connection as root user to the Linux vRealize Automation 6.2.x SSO2 Identity Server or the 6.x vSphere Platform Services Controller appliance. On Windows, use PuTTY and select SSH as the connection type.
- 2 At the command prompt, download the Copy SSO utility to your target vRealize Automation 7.1 virtual appliance. Replace *vrva-fqdn* with the fully qualified domain name of your target appliance.
 

```
wget --no-check-certificate https://vrva-fqdn:5480/service/cafe/download/copy-sso.zip
```
- 3 At the command prompt, extract *copy-sso.zip*.
 

```
unzip copy-sso.zip -d ~/copy-sso
```



- 4 At the command prompt, run `copy-ss0`.

```
~/copy-ss0/bin/copy-ss0
```

Because you are logged in as root user, do not use `sudo` to run this script.

- 5 When prompted, enter the requested information.

#### What to do next

[“Migrate a vRealize Automation Deployment with Automatic IaaS Database Cloning,”](#) on page 12 or [“Migrate a vRealize Automation Environment with an IaaS Database Backup,”](#) on page 9

## Prepare to Migrate Tenants and Identity Stores for Windows

You can migrate tenants and identity stores from the source vRealize Automation 6.2.x environment to the target vRealize Automation 7.1 environment.

Perform these steps to copy JAR files from the source Windows vSphere Platform Services Controller 6.x or later to the target vRealize Automation 7.1 virtual appliance.

#### Procedure

- 1 Log in to the Windows vSphere Platform Services Controller 6.x or later.
- 2 Open a browser and navigate to `https://vrva-fqdn:5480/service/caf/download/copy-ss0.zip`. to download the Copy SSO utility. Replace `vrva-fqdn` with the fully qualified domain name of the target vRealize Automation 7.1 virtual appliance.
- 3 After the file downloads, right-click `copy-ss0.zip` and select **Extract All**.
- 4 Click **Start**, enter `cmd` in the **Search programs and files** text box, right-click the `cmd.exe` icon, and click **Run as administrator**.
- 5 At the command prompt, change directories to the extracted ZIP file folder and then to the `bin` directory. Run `copy-ss0.bat` from this location.
- 6 At the command prompt, run `copy-ss0.bat`.
 

```
copy-ss0.bat
```
- 7 When prompted, enter the requested information.

#### What to do next

[“Migrate a vRealize Automation Deployment with Automatic IaaS Database Cloning,”](#) on page 12 or [“Migrate a vRealize Automation Environment with an IaaS Database Backup,”](#) on page 9

## Migrate a vRealize Automation Environment with an IaaS Database Backup

You can migrate your VMware vRealize™ Automation 6.2.x environment to a new installation of vRealize Automation 7.1 with a manual backup of the vRealize Automation 6.2.x IaaS Microsoft SQL database.

This procedure is more dependable for transferring large amounts of data and is the preferred procedure for migration. You must make a full Microsoft SQL database backup and use the backup to restore the database to a new location. For information, see these Microsoft articles:

- [Create a Full Database Backup \(SQL Server\) for SQL Server 2014](#)
- [Create a Full Database Backup \(SQL Server\) for SQL Server 2012](#)
- [Restore a Database to a New Location \(SQL Server\)](#)

**Procedure**

- 1 Create a full database backup of the source vRealize Automation 6.2.x IaaS Microsoft SQL database.
- 2 Restore the backup as a new database on the Microsoft SQL Server in the target vRealize Automation 7.1 environment.
- 3 Obtain the encryption key from your source vRealize Automation 6.2.x deployment.

- a Run the following command in an administrative command prompt on the virtual machine that hosts active Manager service to obtain the encryption key.

```
C:\Program Files
(x86)\VMware\VCAC\Server\ConfigTool\EncryptionKeyTool\DynamicOps.Tools.EncryptionKeyTool.
exe" key-read -c "C:\Program Files (x86)\VMware\VCAC\Server\ManagerService.exe.config" -v
```

If your installation directory is not in the default location, C:\Program Files (x86)\VMware\VCAC, edit the path to your actual installation directory.

- b Save the key that appears on the screen after you run the command.

The key is a long string of characters that looks similar to this example:

```
NRH+f/BlnCB6yvasLS3sxespgdkcFWAEuyV0g4lfryg=
```

- 4 In your target vRealize Automation 7.1 environment, open the management console for your virtual appliance by using the fully qualified domain name of the virtual appliance: `https://va-hostname.domain.name:5480`.
- 5 Log in with the user name **root** and the password you specified when the appliance was deployed.
- 6 Select **vRA Settings > Migration**.
- 7 On the Migrate from an existing vRA installation page of the management console, leave the **Auto Clone Source IaaS DB** check box deselected. Select or deselect the **Enable SSO2 migration** check box according to how you migrated your tenants and identity stores.
- 8 Enter the requested information for Source vRA SSO2 Appliance.

Option	Description
<b>Host name</b>	Host name for the source vRealize Automation 6.2.x SSO2 Identity Server.

- 9 Enter the requested information for Source vRA Appliance.

Option	Description
<b>Host name</b>	Host name for the vRealize Automation 6.2.x appliance.
<b>Root username</b>	<b>root</b>
<b>Root password</b>	Root password that you entered when you deployed the vRealize 6.2 appliance.
<b>Re-enter password</b>	Re-enter root password.

- 10 Enter the requested information for the Target vRA Appliance

Option	Description
<b>Default tenant</b>	Tenant you created when you configured single sign-on in the installation wizard, for example, vsphere.local.
<b>Administrator username</b>	Default tenant administrator user name that you entered when you deployed the vRealize 7.1 appliance, for example, administrator@vsphere.local.
<b>Administrator password</b>	Administrator password that you entered when you deployed the vRealize 7.1 appliance.

Option	Description
<b>Re-enter password</b>	Re-enter administrator password.
<b>Root username</b>	<b>root</b>
<b>Root password</b>	Root password that you entered when you deployed the vRealize 7.1 appliance.
<b>Re-enter password</b>	Re-enter root password.

- 11 Enter the requested information for Source vRA IaaS Database Server.

Option	Description
<b>Encryption Key</b>	Encryption key string from your source vRealize Automation 6.2.x deployment.

- 12 Enter the requested information for Target vRA IaaS Database Server.

Option	Description
<b>Database Host Name</b>	Name of the vRealize Automation 7.1 IaaS Microsoft SQL database host.
<b>New Database Name</b>	Name of the Microsoft SQL database you restored on the target vRealize Automation 7.1 environment.
<b>Passphrase</b>	New passphrase to re-encrypt sensitive content stored in migrated Microsoft SQL database. A passphrase is a series of words used to generate an encryption key to protect data while at rest in the database, such as endpoint credentials. You use this passphrase each time you install a new IaaS component.
<b>Database Security</b>	SQL Server authentication mechanism. Select <b>Windows Authentication</b> or <b>SQL Authentication</b> . If you select SQL Authentication, you must enter a user name and password.  If the vRealize Automation 6.2.x database and the 7.1 database are on different domains, Windows authentication fails.

- 13 Click **Migrate**.

Migration Status shows the migration progress and displays a message when migration is finished.

More migration details are contained in the following log files. You can tail these log files to observe the migration progress.

- vRealize Automation 6.2.x virtual appliance: `/var/log/vcac/migration-package.log`
- vRealize Automation 7.1 virtual appliance: `/var/log/vcac/migrate.log`
- IaaS nodes: `C:\Program Files (x86)\VMware\VCAC\InstallLogs-YYYYMMDDHHMMSS\Migrate.log`

The installation directory for the IaaS nodes might be in a non-default location.

- 14 Submit your vRealize Automation 7.1 license key.
- a On the management console, click **Licensing**.
  - b Enter your vRealize Automation 7.1 license key in the **New License Key** text box.
  - c Click **Submit Key**.
- 15 If you are migrating to a clustered environment, access the management console on each secondary node and join the secondary node to the master node.
- a Select **vRA Settings > Cluster**.
  - b Click **Join Cluster**.
- 16 If you are migrating to a clustered environment, configure each secondary node in the load balancer.

**What to do next**

[“Validate the vRealize Automation Migrated Environment,”](#) on page 16

## Migrate a vRealize Automation Deployment with Automatic IaaS Database Cloning

You can use the automatic migration process to migrate your vRealize Automation 6.2.x deployment to 7.1 using automatic IaaS database cloning.

Although this procedure automates most of the migration process, successful migration depends on the following conditions:

- The Model Manager node must have good connectivity with the source and target Microsoft SQL Servers. Networks with low bandwidth can time out while transferring a huge amount of data between the servers.
- The source and target Microsoft SQL Servers must be in the same domain.
- The target Microsoft SQL Server IaaS database logins must be the same as the logins configured in the source Microsoft SQL Server IaaS database.

**Procedure**

- 1 Obtain the encryption key from your vRealize Automation 6.2.x deployment.
  - a Run the following command in an administrative command prompt on the virtual machine that hosts active Manager service to obtain the encryption key .
 

```
C:\Program Files (x86)\VMware\VCAC\Server\ConfigTool\EncryptionKeyTool\DynamicOps.Tools.EncryptionKeyTool.exe" key-read -c "C:\Program Files (x86)\VMware\VCAC\Server\ManagerService.exe.config" -v
```

If your installation directory is not in the default location, C:\Program Files (x86)\VMware\VCAC, you must edit the path to your own installation directory.
  - b Copy and save the key that appears after you run the command.
 

The key is a long string of characters that looks similar to this:

```
NRH+f/BlnCB6yvasLS3sxespgdkcFWAEuyV0g4lfryg=
```
- 2 In your target vRealize Automation 7.1 environment, open the management console for your virtual appliance by using its fully qualified domain name: `https://va-hostname.domain.name:5480`.
- 3 Log in with the user name **root** and the password you specified when the appliance was deployed.
- 4 Select **vRA Settings > Migration**.
- 5 Ensure the **Auto Clone Source IaaS DB** check box is selected.
- 6 Select or deselect the **Enable SSO2 migration** check box according to how you migrated your tenants and identity stores.
- 7 Enter the requested information for Source vRA SSO2 Appliance.

Option	Description
<b>Host name</b>	Host name for the source vRealize Automation 6.2.x SSO2 Identity Server.

- 8 Enter the requested information for Source vRA Appliance.

Option	Description
<b>Host name</b>	Host name for the vRealize Automation 6.2.x appliance.
<b>Root username</b>	<b>root</b>
<b>Root password</b>	Root password that you entered when you deployed the vRealize 6.2 appliance.
<b>Re-enter password</b>	Re-enter root password.

- 9 Enter the requested information for the Target vRA Appliance

Option	Description
<b>Default tenant</b>	Tenant you created when you configured single sign-on in the installation wizard, for example, vsphere.local.
<b>Administrator username</b>	Default tenant administrator user name that you entered when you deployed the vRealize 7.1 appliance, for example, administrator@vsphere.local.
<b>Administrator password</b>	Administrator password that you entered when you deployed the vRealize 7.1 appliance.
<b>Re-enter password</b>	Re-enter administrator password.
<b>Root username</b>	<b>root</b>
<b>Root password</b>	Root password that you entered when you deployed the vRealize 7.1 appliance, for example.
<b>Re-enter password</b>	Re-enter root password.

- 10 Enter the requested information for the Source vRA IaaS Database Server.

Option	Description
<b>Database Host Name</b>	Name of the vRealize Automation 6.2.x IaaS Microsoft SQL database host.
<b>Database Name</b>	Name that you entered when you deployed the vRealize Automation 6.2.x appliance. The default name is vCAC..
<b>Encryption Key</b>	Encryption key string from your source vRealize Automation 6.2.x deployment.
<b>Database Security</b>	SQL Server authentication mechanism. Select <b>Windows Authentication</b> or <b>SQL Authentication</b> . If you select SQL Authentication, you must enter a user name and password. If the vRealize Automation 6.2.x database and the 7.1 database are on different domains, Windows authentication fails.

- 11 Enter the requested information for the Target vRA IaaS Database Server.

Option	Description
<b>Database Host Name</b>	Name of the vRealize Automation 7.1 IaaS Microsoft SQL database host.
<b>New Database Name</b>	Name of the new database that you are migrating to.
<b>Create Database</b>	Accept default selection.

Option	Description
<b>Passphrase</b>	New passphrase to re-encrypt sensitive content stored in migrated Microsoft SQL database. A passphrase is a series of words used to generate an encryption key to protect data while at rest in the database, such as endpoint credentials. You use this passphrase each time you install a new component.
<b>Database Security</b>	SQL Server authentication mechanism. Select <b>Windows Authentication</b> or <b>SQL Authentication</b> . If you select SQL Authentication, you must enter a user name and password .  If the vRealize Automation 6.2.x database and the 7.1 database are on different domains, Windows authentication fails.

12 Click **Migrate**.

Migration Status shows the migration progress and displays a message when migration is finished.

More migration details are contained in the following log files. You can tail these log files to observe the migration progress.

- vRealize Automation 6.2.x virtual appliance: /var/log/vcac/migration-package.log
- vRealize Automation 7.1 virtual appliance: /var/log/vcac/migrate.log
- IaaS nodes: C:\Program Files (x86)\VMware\VCAC\InstallLogs-YYYYMMDDHHMMSS\Migrate.log

The installation directory for the IaaS nodes might be in a non-default location.

13 When migration finishes, submit your vRealize Automation 7.1 license key.

- a On the management console, click **Licensing**.
- b Enter your vRealize Automation 7.1 license key in the **New License Key** text box.
- c Click **Submit Key**.

14 If you are migrating to a clustered environment, access the management console on each secondary node and join the secondary node to the master node.

- a Select **vRA Settings > Cluster**.
- b Click **Join Cluster**.

15 If you are migrating to a clustered environment, configure each secondary node in the load balancer.

**What to do next**

[“Validate the vRealize Automation Migrated Environment,”](#) on page 16

## Post-Migration Task for Environments with an Internal vRealize Orchestrator

If your target environment includes an internal VMware vRealize™ Orchestrator™, complete this task after you migrate.

Perform these steps to update the internal vRealize Orchestrator configuration.

**Prerequisites**

- Successful migration from your vRealize Automation 6.2.x environment to a vRealize Automation to 7.1 environment.
- Log in to the vRealize Orchestrator Control Center. See [Log in to the vRealize Orchestrator Configuration Interface](#).

**Procedure**

- 1 On the vRealize Orchestrator Control Center, select **Home > Manage Plug-Ins**.
- 2 On the Manage Plug-Ins page, click the download icon for Library, vCAC, and vCACCAFE to download these plug-in DAR files.
- 3 Log in as root user to the vRealize Automation 7.1 virtual appliance.
- 4 Navigate to `/usr/lib/vco/app-server/plugins`.
- 5 Delete the DAR files that contain the Library (`o11nplugin-library.dar`), vCAC (`o11nplugin-vcac.dar`), and vCACCAFE (`o11nplugin-vcaccaffedar.dar`) plug-ins.
- 6 Navigate to `/var/lib/vco/app-server/conf/plugins`.
- 7 Edit the `_VSOPuginInstallationVersion.xml` file to remove entries for the Library, vCAC and vCACCAFE plug-ins.
- 8 On the vRealize Orchestrator Control Center, select **Home > Startup Options**.
- 9 Click **Restart**.  
The plug-ins are removed from vRealize Orchestrator.
- 10 Open and log in to the vRealize Orchestrator client.
- 11 Select **Administer** from the drop-down menu in the upper left corner.
- 12 In the left pane, click the **Packages** icon.
- 13 Delete the `com.vmware.library`, `com.cmware.library.vcac`, and `com.vmware.library.vcaccaffedar` packages one at a time.
  - a In the left pane, right-click a package and select **Delete element with content**.
  - b Click **DELETE ALL!**.
- 14 Close the vRealize Orchestrator client.
- 15 On the vRealize Orchestrator Control Center, select **Home > Manage Plug-Ins**.
- 16 Install the Library, vCAC, and vCACCAFE plug-ins one at a time from the DAR files you downloaded earlier.
  - a Click **Browse**.
  - b Navigate to the folder where you downloaded the DAR files.
  - c Select a DAR file, and click **Open**.
  - d Click **Install**.
- 17 On the vRealize Orchestrator Control Center, select **Home > Startup Options**.
- 18 Click **Restart**.
- 19 Open and log in to the vRealize Orchestrator client.
- 20 Select **Run** from the drop-down menu in the upper left corner.
- 21 In the left pane, click the **Workflows** icon.
- 22 Select **Library > vRealize Automation > Configuration**.
- 23 Select **Add the IaaS host of a vRA host**.
- 24 In the right pane, click the **Start workflow** icon.  
Provide the requested parameters to add the IaaS host to the vRealize Orchestrator inventory.
- 25 In the left pane, click the **Inventory** icon.

- 26 Select **vRealize Automation Infrastructure**.
- 27 In the right pane, click the **Reload** icon.
- 28 Verify the IaaS host is added to the list.

## Validate the vRealize Automation Migrated Environment

You can verify that all data is migrated successfully to the target VMware vRealize™ Automation 7.1 environment.

### Prerequisites

Completed migration from vRealize Automation 6.2.x to 7.1.

### Procedure

- 1 In your vRealize Automation 7.1 environment, log in to the vRealize Automation console as **administrator** using your vRealize Automation 6.2.x credentials.
- 2 Select **Infrastructure > Managed Machines** and verify that all the managed virtual machines are present.
- 3 Click **Compute Resources**, and for each endpoint, select the endpoint and click **Data Collection**, **Request now**, and **Refresh** to verify that the endpoints are working.
- 4 Click **Design**, and on the Blueprints page, select and verify the elements of each blueprint.
- 5 Click **XaaS** and verify the contents of **Custom Resources**, **Resource Mappings**, **XaaS Blueprints**, and **Resource Actions**.
- 6 Select **Administration > Catalog Management** and verify the contents of **Services**, **Catalog Items**, **Actions**, **Entitlements**.
- 7 Select **Items > Deployments** and verify the details for the provisioned virtual machines.
- 8 On the Deployments page, select a provisioned, powered off, virtual machine and select **Actions > Power On**, click **Submit**, and click **OK**. Verify that the machine powers on correctly.
- 9 Click **Catalog**, and request a new catalog item.
- 10 On the **General** tab, enter the request information.
- 11 Click the Machine icon, accept all the default settings, click **Submit**, and click **OK**. Verify that the request completes successfully.



# Troubleshooting Migration

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Migration troubleshooting topics provide solutions to problems you might experience when you migrate vRealize Automation.

## PostgreSQL Version Causes Error

A source vRealize Automation 6.2.x environment containing an updated PostgreSQL database blocks administrator access.

### Problem

If an upgraded PostgreSQL database is used by vRealize Automation 6.2.x, an administrator must add an entry to the `pg_hba.conf` file that provides access to this database from vRealize Automation.

### Solution

- 1 Open the `pg_hba.conf` file.
- 2 Add the following entry to grant access to this database.

```
host all vcac-database-user vra-va-ip trust-method
```



# Index

## M

- migrate
  - with automatic IaaS database cloning **12**
  - with IaaS database backup **9**
- migrate tenants and identity stores
  - linux **8**
  - windows **9**
- migration
  - overview **7**
  - prerequisites **7**
  - validate migration **16**

## P

- post-migration task, update vRealize Orchestrator configuration **14**

## T

- troubleshooting, external PostgreSQL database **17**

## U

- updated information **5**

