NetBrain® Integrated Edition 8.0

Quick Setup Guide (NSX)

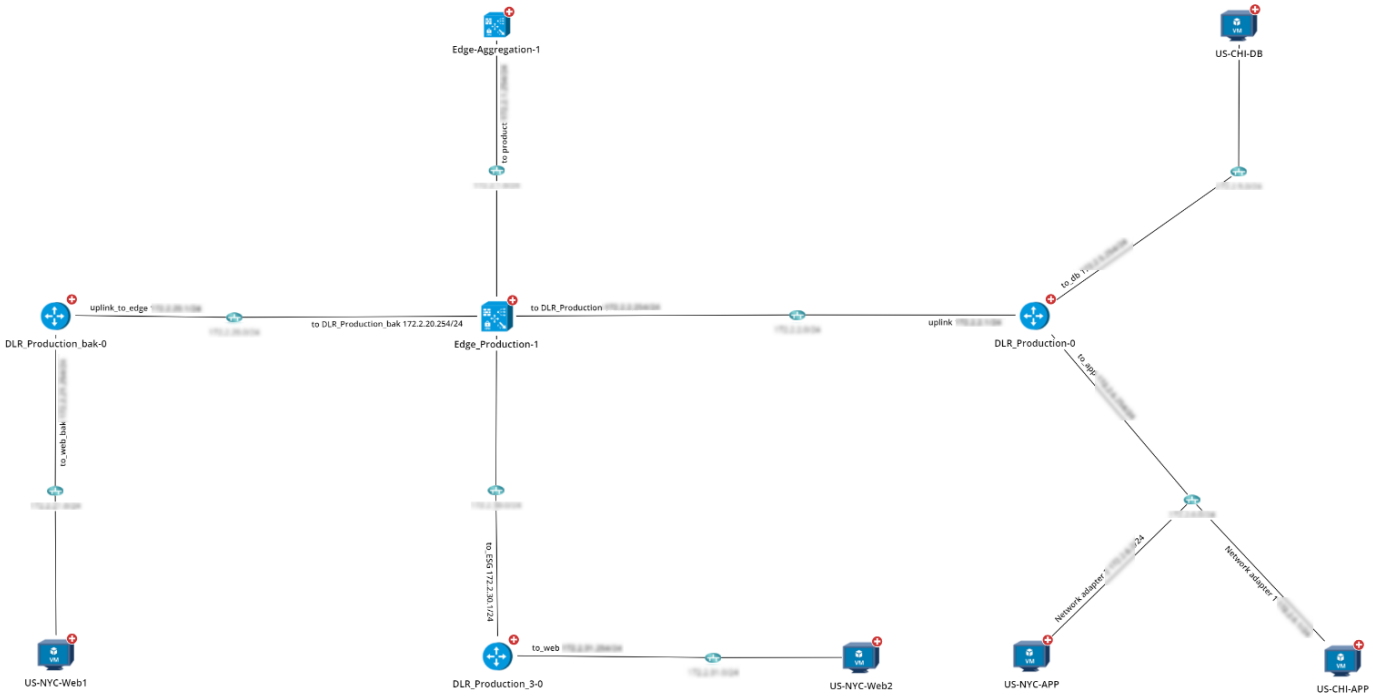
Version 8.03 | Last Updated 2020-08-10

Contents

1. Setting Up VMware NSX-V Networks

VMware NSX is the network virtualization platform for the Software-Defined Data Center (SDDC), which delivers networking and security entirely in software, abstracted from the underlying physical infrastructure. NetBrain can discover the networks based on VMware NSX-V (for vSphere) and visualize the NSX-V networks on dynamic maps.

Example: A Visualized Topology Map of an NSX-V Distributed Logical Router.

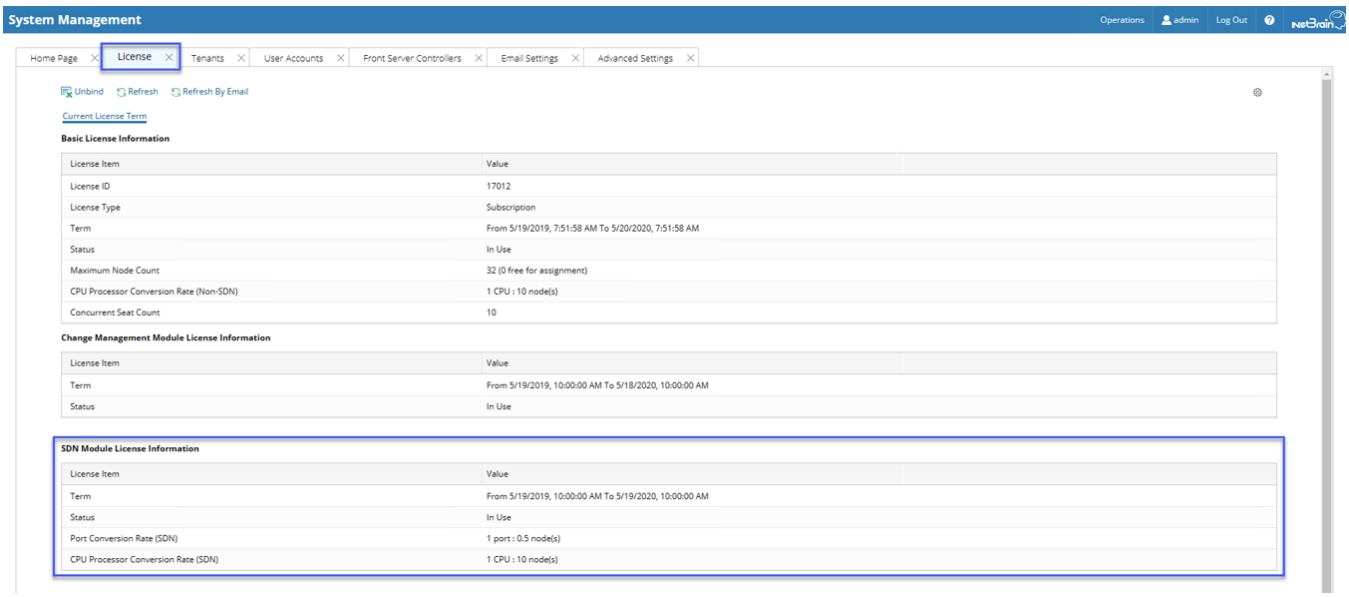


1.1. Allocating SDN License to Your NetBrain Tenant and Domain

Select an appropriate way to allocate SDN licenses to your tenant and domain.

- Allocating SDN Licenses to a New Tenant and Domain
- Allocating SDN Licenses to an Existing Tenant and Domain

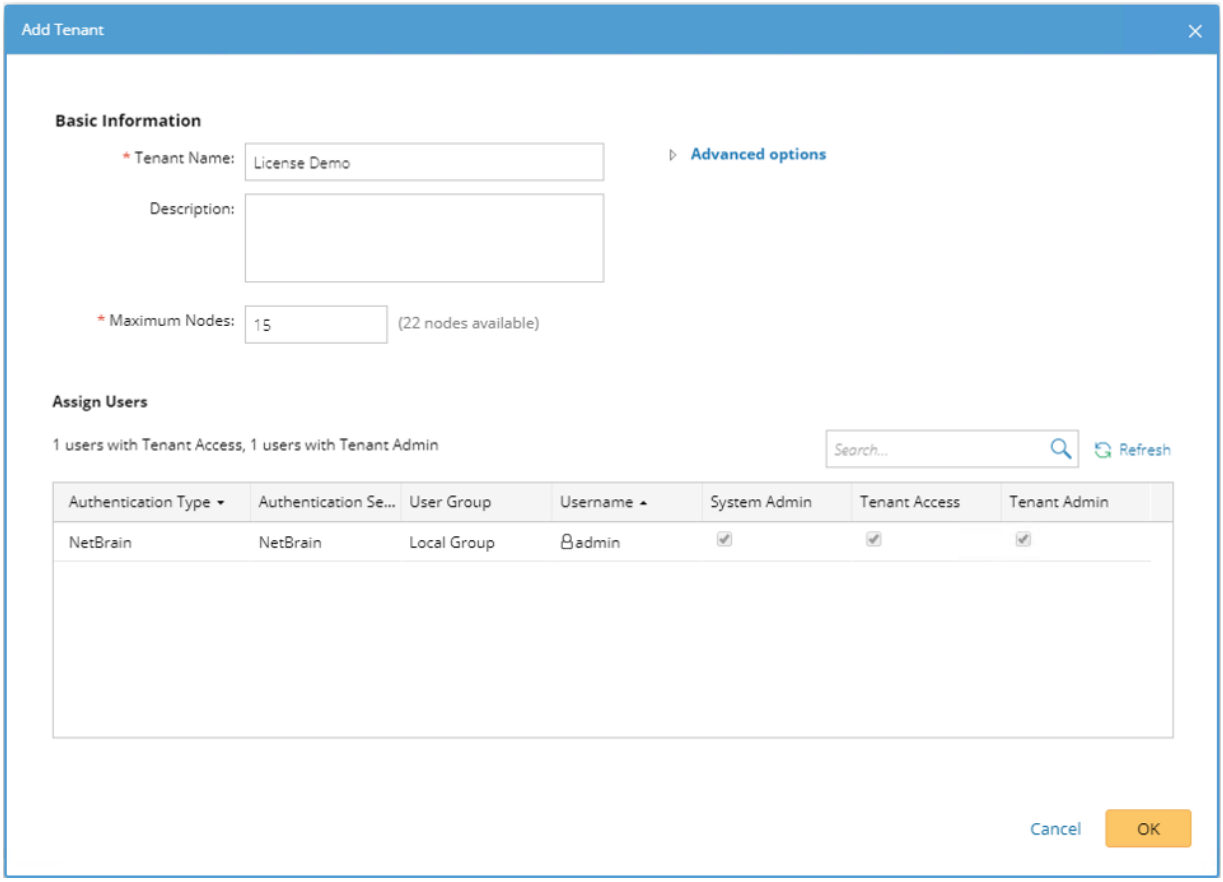
> **Note:** Before continuing with the following steps, make sure your SDN license has been activated. Here is an example:



Allocating SDN Licenses to a New Tenant and Domain

1. Log in to the System Management page.
2. Select the **Tenants** tab, and click **Add**.

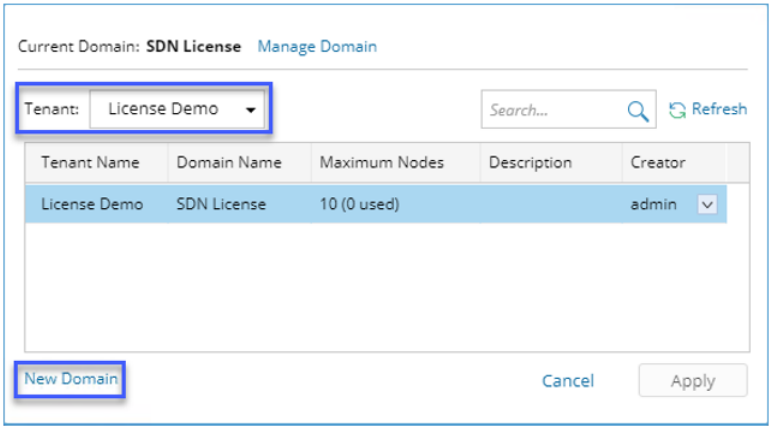
3. Specify a tenant name and allocate a maximum number of nodes to the tenant.



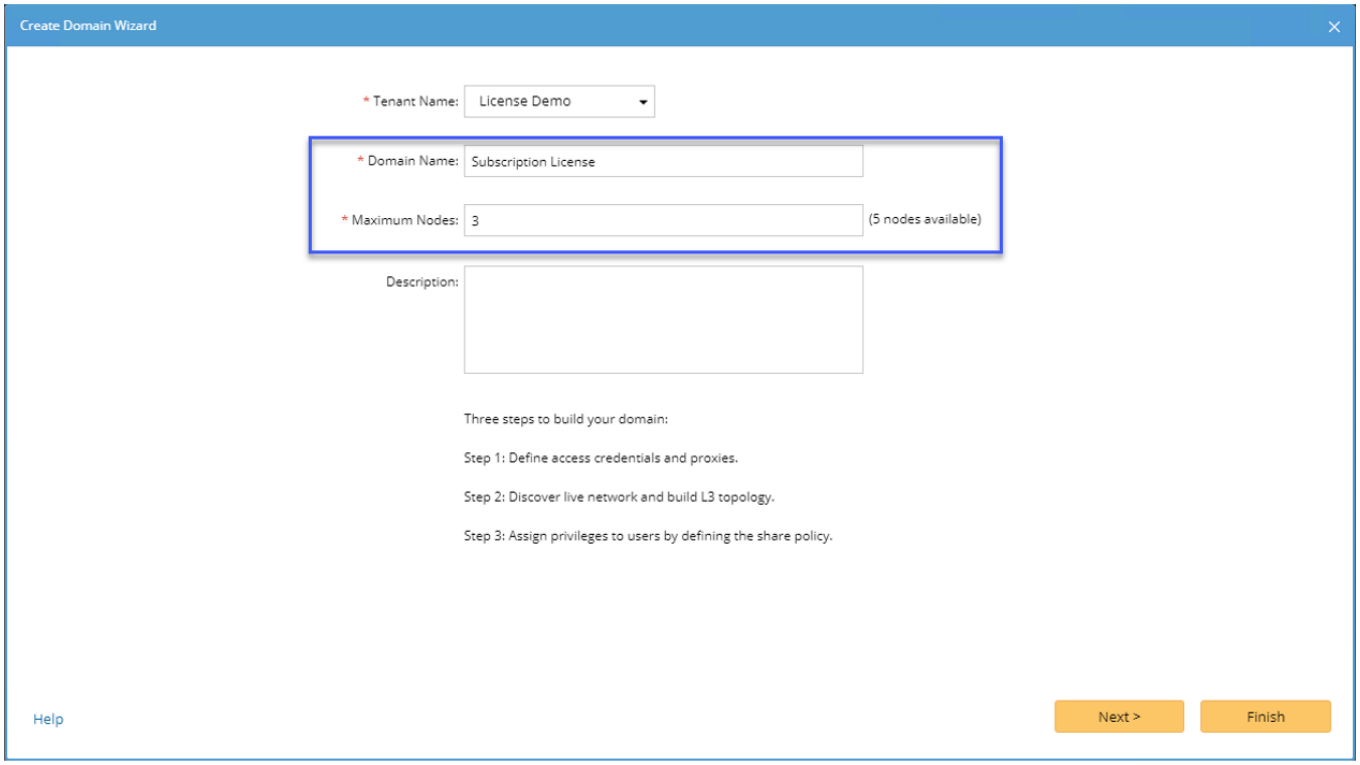
4. Click **OK** to submit.

5. Log in to the End User page.

6. Select the tenant you created from the quick access toolbar, and click **New Domain**.



7. Specify a domain name and allocate a maximum number of nodes to the domain.

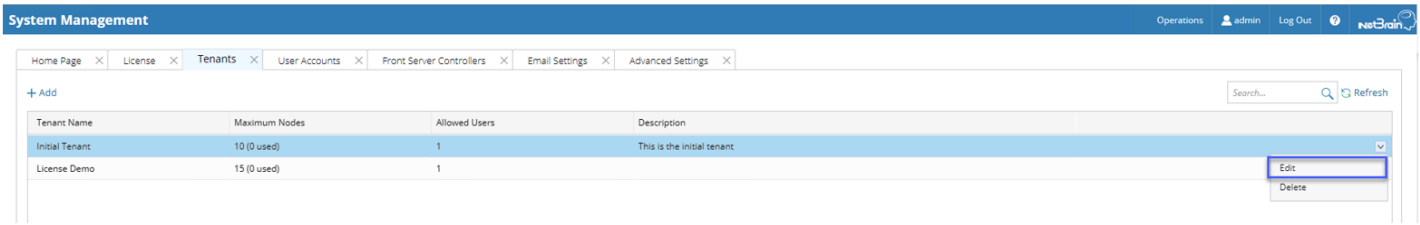


8. Click **Finish**.

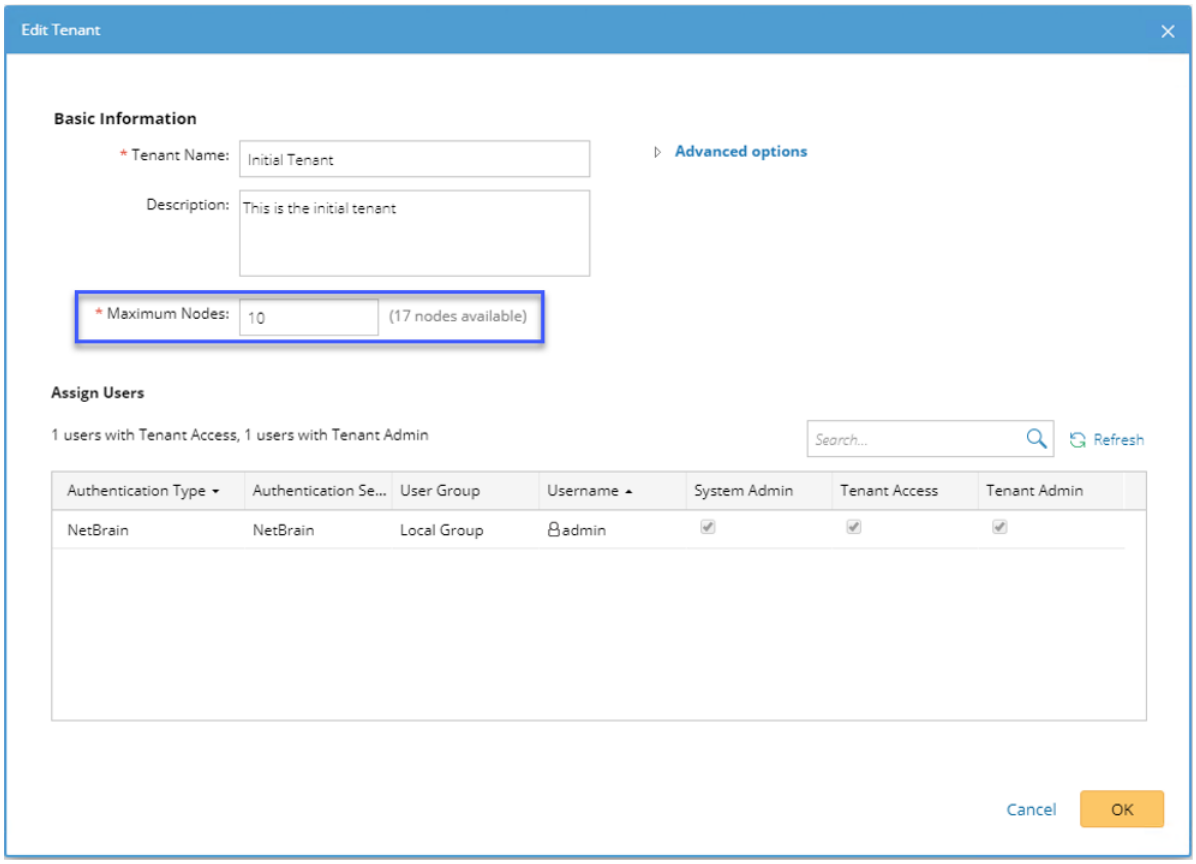
Allocating SDN Licenses to an Existing Tenant and Domain

1. Log in to the System Management page.

2. Select the **Tenants** tab, and select **Edit** from the drop-down list of the desired existing tenant.



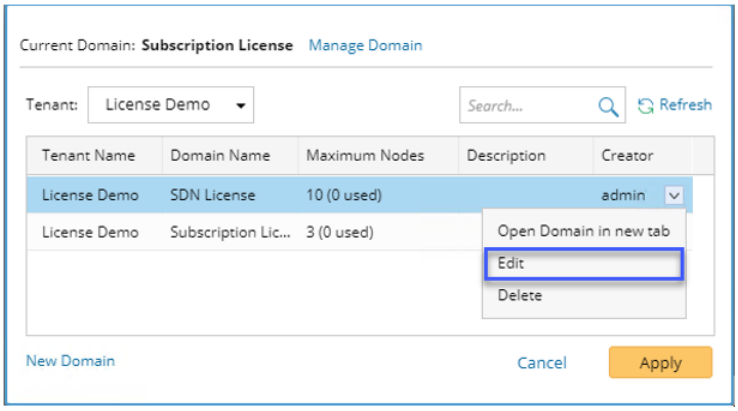
3. Allocate a maximum number of nodes to the tenant.



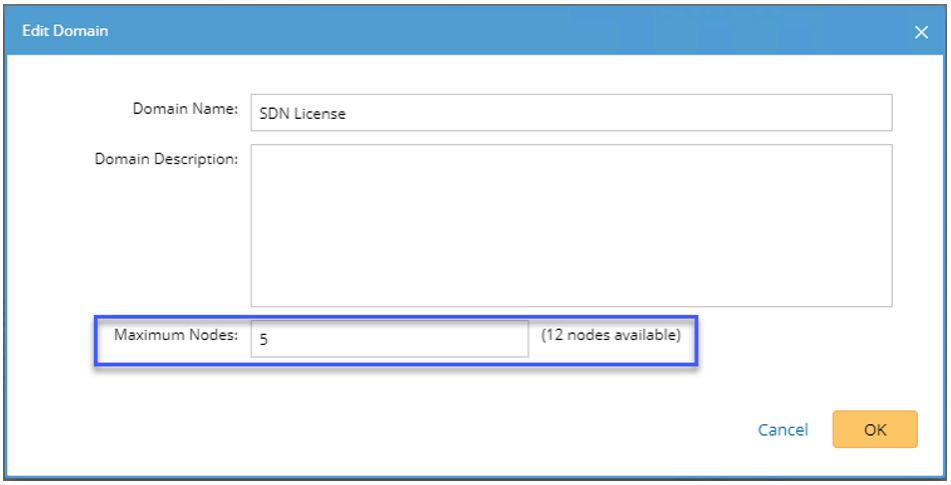
4. Click **OK** to submit.

5. Log in to the End User page.

6. Select the existing tenant from the quick access toolbar, and select **Edit** from the drop-down list of the existing domain.



7. Specify a domain name and allocate a maximum number of nodes to the domain.



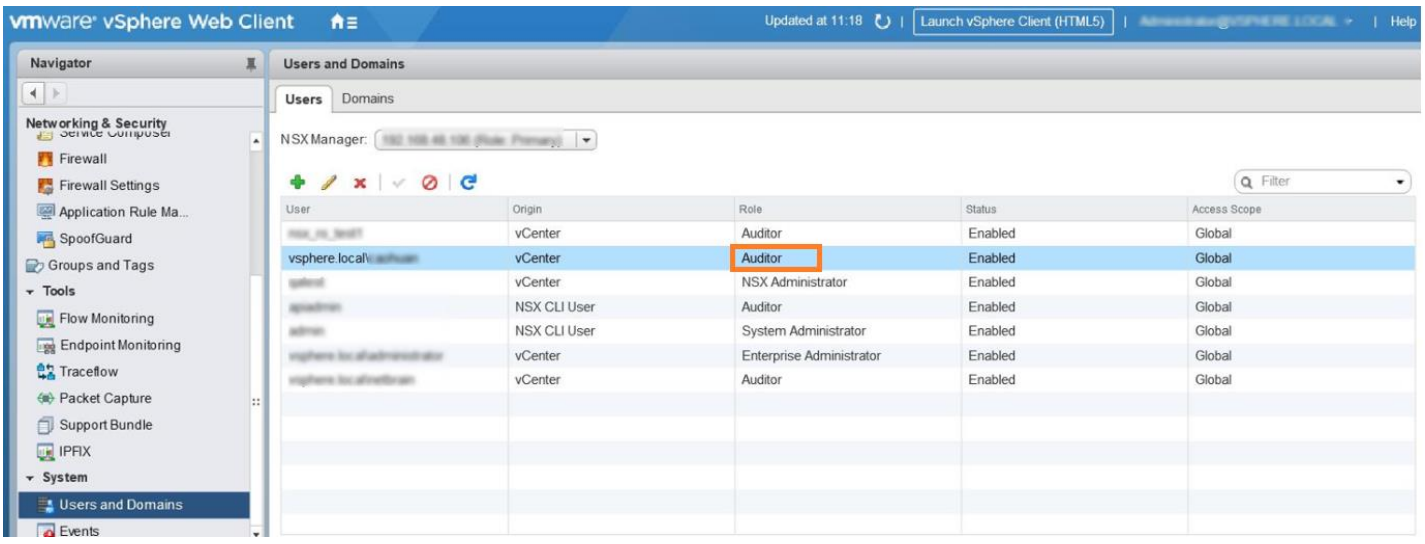
8. Click **OK**.

1.2. Discovering NSX-V Network in NetBrain Domain

NetBrain can discover the following components of an NSX-V network via restful APIs, and then build network topology based on the retrieved data.

- NSX Manager
- NSX Controller
- Logical Switch
- Distributed Logical Router
- NSX Edge

Prerequisites: A user account with the **Auditor** role is required to enable NetBrain to discover an NSX-V network.



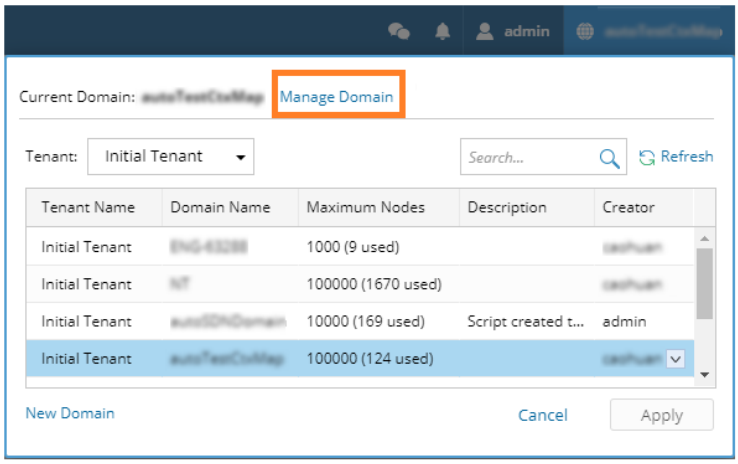
> **Note:** This configuration for NSX-V user role is required on the vCenter where the NSX Manager is registered to.

To understand an NSX-V network, you need to first discover the network data model in a NetBrain domain.

1. Add an NSX Manager

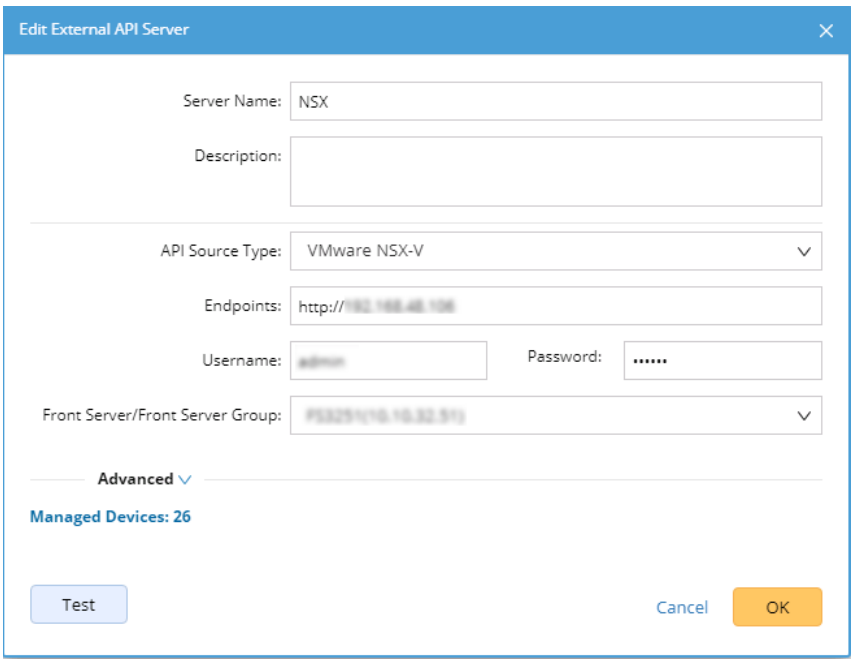
NetBrain retrieves NSX-V data through the NSX Manager by using APIs. Follow the steps below to add an NSX Manager and specify the address and user credentials to access the manager in the system.

1) Click the domain name from the quick access toolbar and select **Manage Domain**.



2) In the Domain Management page, select **Operations > Discover Settings > API Server Manager** from the quick access toolbar.

3) Click **Add** on the **API Server Manager** tab.



4) Enter a unique name in the **Server Name** field.

5) Select **VMware NSX-V** from the **API Source Type** drop-down menu.

6) In the **Endpoints** field, enter the URL of the NSX Manager.

7) Enter the username and password to access the NSX Manager. If more parameters are required when you access the manager or request data from the controller, you can click **Advanced** to configure the keys (parameter names) and values.

8) Select a Front Server or Front Server Group.

> **Note:** Make sure that the port 7068 of the server where your NetBrain Front Server is installed is not occupied by other applications because this port is used by service components of a Front Server to communicate with each other.

9) Click **OK**.

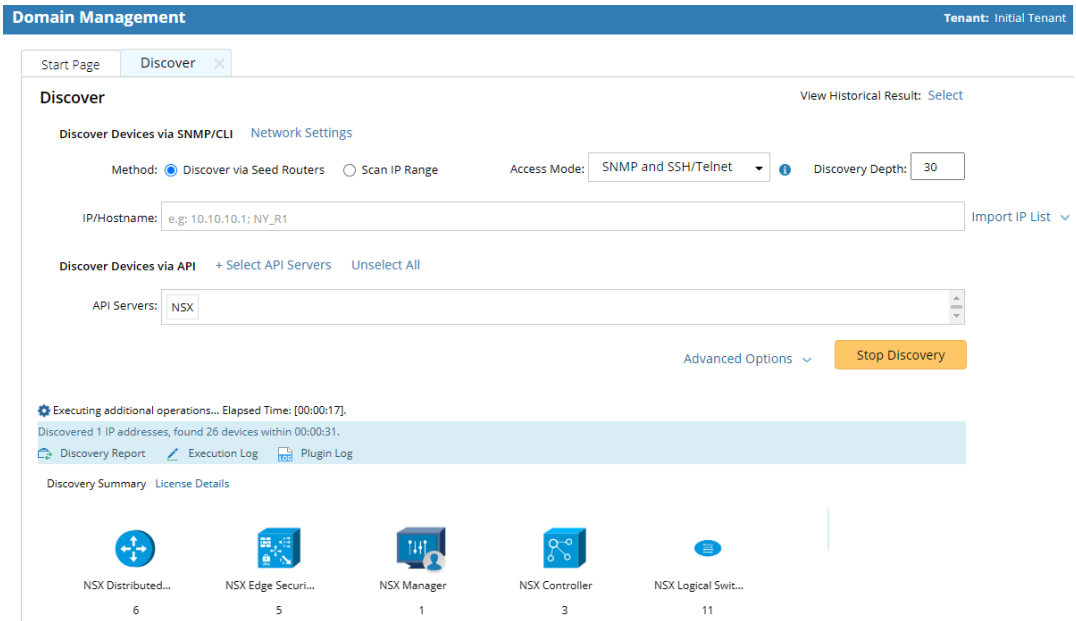
2. Discover Your NSX-V Network

> **Note:** An NSX Manager is registered with a vCenter system. The corresponding vCenter Controller must be discovered before discovering the NSX-V Manager. For more information regarding how to discover vCenter, refer to NetBrain Quick Setup Guide (ESXi).

1) In the Domain Management page, select **Operations > Discover** from the quick access toolbar.

2) Click **Select API Servers** and select **NSX** that you have configured.

3) Click **Start Discovery**.



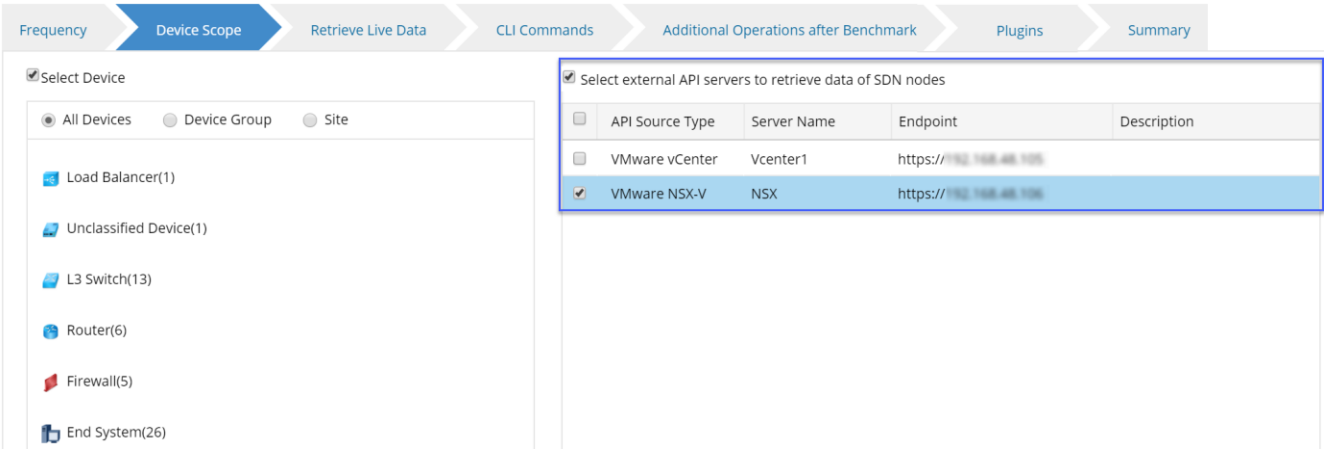
> **Note:** The SDN discovery only retrieves basic data of your network and builds L3 topology. After the discovery, you need to execute a benchmark task to retrieve all data and build all components, including visual spaces and data views. See Auto-Updating NSX-V Data in NetBrain through Benchmark for details.

1.3. Auto-Updating NSX-V Data in NetBrain through Benchmark

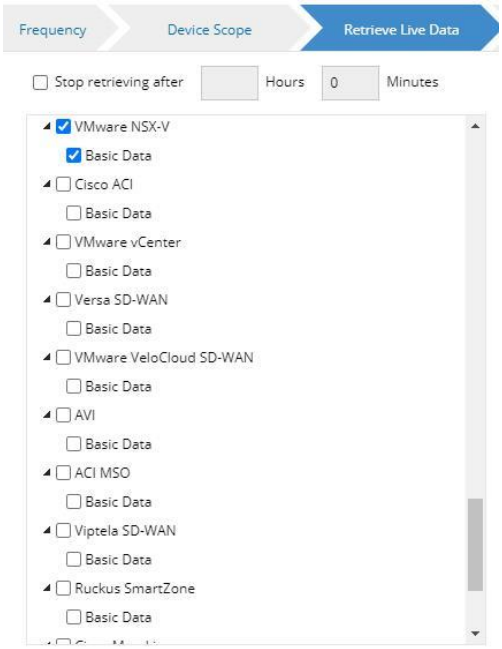
The discovery only retrieves basic data of your NSX-V network and builds L3 topology. After the discovery, you need to execute a benchmark task to retrieve all data and build all components, including visual spaces and data views.

Example: Benchmark VMware NSX-V in your NetBrain Domain.

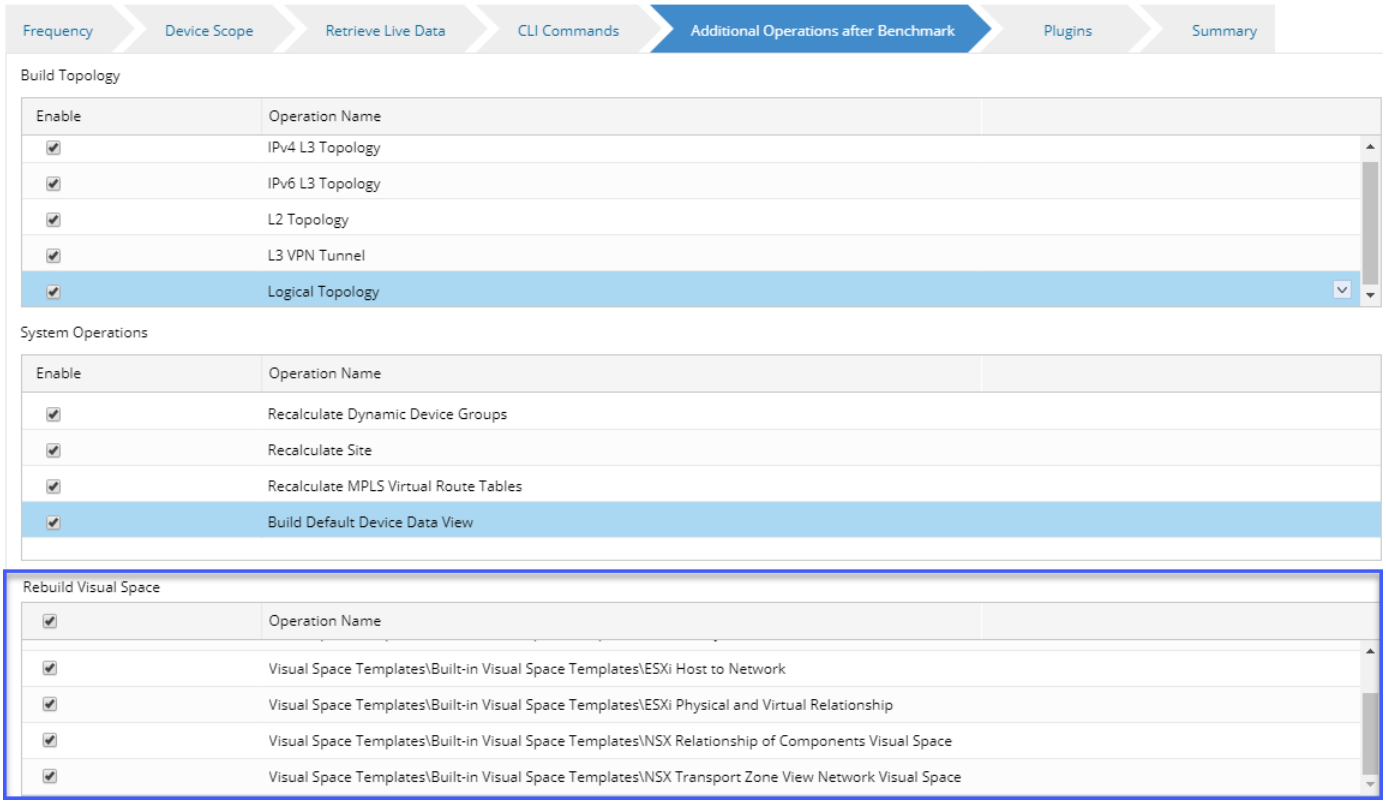
1. On the Start Page, click **Schedule Task**.
2. On the **Schedule Discovery/Benchmark Task** tab, click **Add Benchmark Task**.
3. On the **Frequency** tab, define the task frequency.
4. On the **Device Scope** tab, check the **Select external API servers to retrieve data of SDN nodes** check box and select an NSX-V server.



5. On the **Retrieve Live Data** tab, select the **VMware NSX-V** checkbox.



6. On the **Additional Operation After Benchmark** tab, select all the check boxes in the **Build Topology** and **Rebuild Visual Space** areas



7. Click **Submit**.