

Quick Start for Users – Load and Launch Your Network

Users design, model or test networks, or train using Junosphere. Your Junosphere environment and your role in it are defined by your bank administrator. Your bank administrator gives you one or more role permissions: adding a new library (Library Management), reserving a time slot (Reservation Management), and starting a network topology (Topology Operation). Your bank administrator also gives you your login credentials.

For full instructions, see the *Junosphere Guide for Users*.

Step 1. Log In to the Junosphere Site

Log in using the login credentials given to you by your bank administrator.

Step 2. Create a Topology

The Topology Wizard enables you to design and create your topologies quickly and easily. The Wizard has drag-and-drop functionality and automatically creates the full topology file set, which defines the properties necessary to build your network in the cloud.

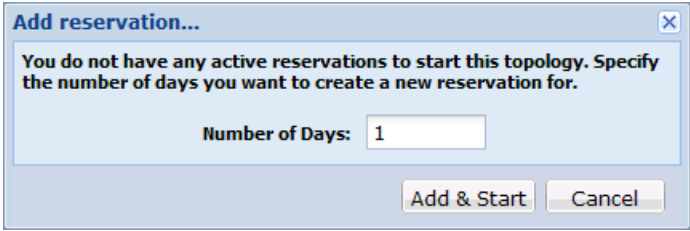
To create a topology using the Topology Wizard:

1. On the main menu, click the Topology Wizard icon. The Topology Wizard appears with the **Add Topology** dialog box displayed.
2. In the **Add Topology** dialog box, enter the name of the topology and a description, if desired.
3. Indicate whether the topology is to be downloadable, editable, or both.
4. Select the library or libraries to which you want to save the topology and click **Add**.
5. Drag and drop icons for specific types of nodes from the icon gallery onto the canvas, or double-click an icon and then click anywhere on the canvas to drop the icon.
6. To create connections, hover the cursor over one of the objects that you want to connect until a hand icon appears. Then, click and drag the hand icon to the object to which you want to connect.
7. Enable “T” connections by creating a connection between the test or monitoring VM (such as Spirent TestCenter, Packet Design Route Explorer, or Mu Studio Performance) and the bridge that links the two VMs. The bridge is represented graphically as a circle with a label such as p0, p1, p2, and so on.
8. Create a config file for the router VMs in the topology by right-clicking a VM in the topology and selecting **Edit VM Configuration** from the pop-up menu. The Edit Configuration dialog box appears. *Optional*.
9. Enter the configuration information in the dialog box or copy and paste configuration from another source. *Optional*.
10. Click **Save** (if you clicked **Add** in the **Add Topology** dialog box) or **Save to File**. A dialog box appears asking you if you want to start the topology or go to the sandbox.

Step 3. Start the Topology

The Topology Wizard provides the option of starting a topology directly from the Topology Wizard and enables you to create a reservation, if necessary, from the Topology Wizard.

After you click **Save** in Step 2 above, if there are no active reservations in your sandbox, the following dialog box appears, enabling you to create a reservation from the Topology Wizard.

A screenshot of a Windows-style dialog box titled "Add reservation...". The dialog has a light blue background and a close button (X) in the top right corner. The main text inside the dialog reads: "You do not have any active reservations to start this topology. Specify the number of days you want to create a new reservation for." Below this text is a label "Number of Days:" followed by a text input field containing the number "1". At the bottom of the dialog are two buttons: "Add & Start" and "Cancel".

Enter the number of days you need for the reservation and click **Add & Start**.



NOTE: If you have annual plan capacity and it is enough to start your topology, the Topology Wizard will not need to add a reservation.

Step 5. Start a Network Topology from a Library

To start a topology from a library instead of the Topology Wizard, perform the following steps:

1. Verify that you have a reservation for your topology or available capacity. If not, make a reservation by clicking the plus sign (+) in the upper right corner of the Reservations tab.



NOTE: You need Reservation Management permission from the bank administrator to perform this function.

2. Select the topology that you want to run. Click the **Libraries** accordion tab to display the libraries where your topologies are stored. Click the library tab (Sandbox, Bank, or Public).
3. Right-click on the filename to start an existing topology (you must have Topology Operation permission).

Only one topology can be active at a time per sandbox.

4. Open the **Active Topology** accordion tab. A series of messages appears, showing the progress of the virtual machines loading. If necessary, click the **Refresh** icon to update the information on the tab.

When the topology is built, the **Join** button appears.

5. See the [Junosphere Network Topology Guide](#) for more information.

Step 6. Join an Active Topology (both access methods)

To join an active topology:

1. View the Active Topology accordion menu to see if a topology is running. If not, return to *Step 3* above to activate the topology.
2. Click **Join** to display the **Junosphere Access Portal** screen (make sure pop-ups are not blocked in your browser).
3. Log in using the Junosphere login ID and password that the bank administrator e-mailed to you for your login credentials.
4. On the Network Connect page, click **Start** to create a Secure Access SSL VPN to the internal management Ethernet of the topology.

Step 7. Use Your Network

To use your network:

1. In the Junosphere user interface, click the **Active Topology** accordion tab and **Virtual Machines** tab to display the IP address of each virtual machine.
2. To access a Junos OS virtual machine image, either telnet to the console port or SSH to the management console of the virtual machine.
3. For Juniper routers, log in using **root** and password **Clouds**. For other types of VMs, refer to the user guide for that VM.
4. Type **cli** to start using the Junos OS environment.
5. Make configuration changes in edit mode and then commit to implement the changes on the router.

Step 8. Tear Down Your Network

To tear down your network:

1. When you have completed your work, make sure you commit and save your changes.
2. Click **Sign Out** on the **Junosphere Access Portal** screen.
3. Click **Stop** on the Virtual Machines tab of the Active Topology accordion tab to remove the topology from active memory.



NOTE: Be sure to sign out and stop the topology to free the resources. Logging out of the Junosphere user interface does NOT stop your topology.

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