



OpenStack External Networks

Avi Technical Reference (v20.1)

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With release 16.2.2, Avi Vantage now supports using OpenStack external networks (i.e , those marked as "external=True") as VIP and/or pool networks. If these external networks have been correctly provisioned/configured, then the VIP is directly reachable from outside OpenStack without need for a floating-IP association.

This feature is disabled by default.

To enable External Networks via the CLI,

```
configure cloud Default-Cloud
cloud> openstack_configuration
cloud:openstack_configuration> external_networks
cloud:openstack_configuration> save
cloud> save
```

Starting with Avi Vantage release 17.2, External Networks can be enabled via the UI.

To enable the feature via the Avi UI,

1. From the Avi UI, click on Infrastructure > Clouds.
2. Navigate to Step 3: Network from the New Cloud: or Edit Cloud: wizard.

If you are creating a new cloud, the wizard looks as below:

The screenshot shows the 'New Cloud: mos' wizard in Step 3: Network. The wizard is divided into four steps: Step 1: Select Cloud, Step 2: Infrastructure, Step 3: Network, and Step 4: Role Mapping. In Step 3, the 'External Networks' checkbox is checked and highlighted with a red box. Other options include 'Free Unused Floating IP Address', 'Map Avi-Admin to Cloud-Admin', 'Template Service Engine Group' (set to None), 'Import All OpenStack Keystone Tenants' (checked), 'Virtual Service Placement Settings' (with 'Prefer Static Routes vs Directly Connected Network for Virtual Service Placement' and 'Use Static Routes for Network Resolution of VIP for Virtual Service Placement' both unchecked), 'Advanced' settings (with 'Allowed Address Pairs', 'Security Groups', 'Anti Affinity', and 'External Networks' checked, and 'Port Security', 'Interface Sec IP', 'Config Drive', and 'Metadata SVC' unchecked), and '3rd Party Integration Settings' (with 'Integration with Contrail VNC' and 'Integration with Nuage VSD' both unchecked). The 'Cancel' button is on the bottom left, and 'Previous' and 'Next' buttons are on the bottom right.

3. Click on the option External Networks to enable it.