

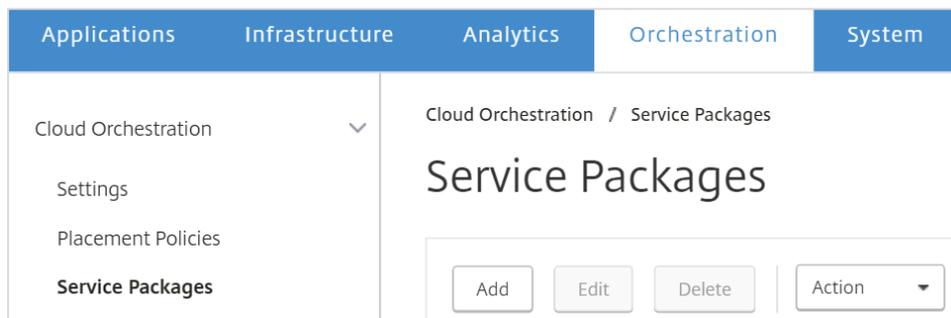
## [How to assign a group of NetScaler instances to group of OpenStack tenants?](#)

### Introduction:

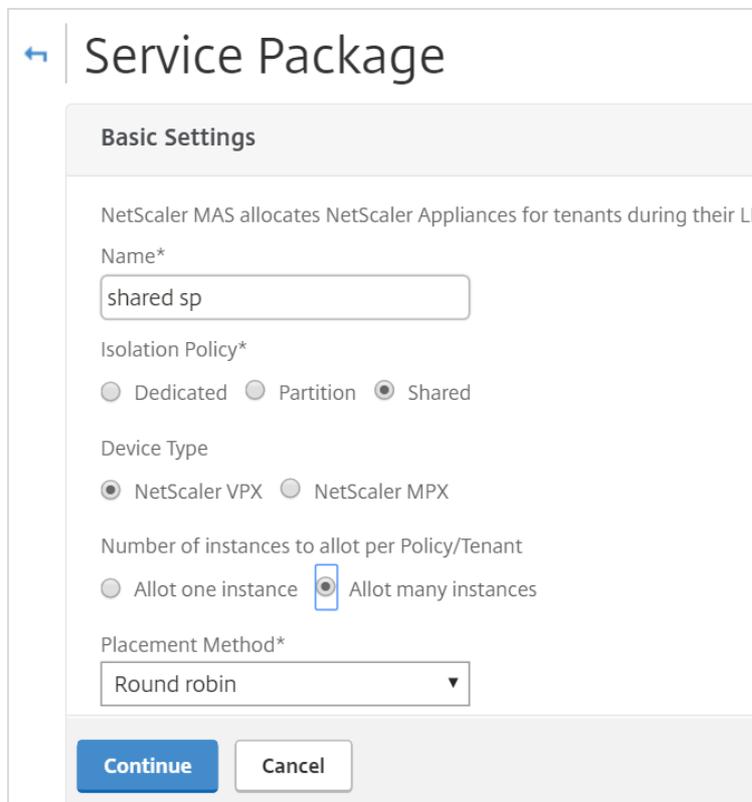
The demand for scalable resources for cloud hosted applications is increasing very rapidly. Using NetScaler MAS, Enterprises can offer scalable NetScaler resources to such application deployments. Enterprise admin can create a group of NetScaler's and offer them to a single tenant or group of tenants. When the demand for new NetScaler resources increase, enterprise can add new NetScaler instances to that group.

Please refer to the below configuration steps to add a group of NetScalers to a group of tenants.

**Step1:** Login to MAS, Go to Orchestration, Cloud Orchestration, Service Packages, click "Add" to start the process of adding a Service Package.



**Step2:** Fill the name for the package, select the isolation policy as shared, select the device type as NetScaler VPX, select the Number of instances to allot per policy/Tenant as "Allot many instances", Placement Method as Round robin.

The screenshot shows the 'Service Package' configuration form. At the top left, there is a back arrow and the title 'Service Package'. Below the title is a 'Basic Settings' section. The form contains the following fields and options:

- Name\***: A text input field containing 'shared sp'.
- Isolation Policy\***: Three radio button options: 'Dedicated', 'Partition', and 'Shared' (which is selected).
- Device Type**: Two radio button options: 'NetScaler VPX' (which is selected) and 'NetScaler MPX'.
- Number of instances to allot per Policy/Tenant**: Two radio button options: 'Allot one instance' and 'Allot many instances' (which is selected).
- Placement Method\***: A dropdown menu with 'Round robin' selected.

At the bottom of the form, there are two buttons: 'Continue' (in blue) and 'Cancel'.

Note:

- MPX devices also can be grouped by selecting Device type as MPX.
- Single instance can be allotted to multiple tenants by selecting “Allot one instance” under Number of instances to allot per policy/Tenant
- Placement method can also be set to least configured(least number of pool members) in addition to round robin

Step3: Click Add to get the list of available instances and click “+” across a particular instance to add that instance to Service Package and click continue.

**Assign Instances**

Configured (0) Remove All

No items

+ Add

Continue Cancel

**Assign Instances**

Available (2) Select All

10.106.43.17 +

10.106.43.234-10.106.43.235 +

Configured (0) Remove All

No items

▶

◀

Continue Cancel

**Assign Instances**

**Available (0)** Select All

No items

➔

➜

**Configured (2)** Remove All

10.106.43.234-10.106.43.235	-
10.106.43.17	-

Continue
Cancel

Step4: Select OpenStack tenant option under Assign Placement policies/OpenStack Tenants and click Add to get the list of OpenStack tenants that are added to MAS and click on “+” across a particular tenant to add that tenant to Service Package and click Continue.

**Assign Instances**

**Configured (2)** Remove All

10.106.43.234-10.106.43.235	-
10.106.43.17	-

**Assign Placement Policies/OpenStack Tenants**

Tenants assigned to one shared Service Package should not have overlapping IP addresses in their networks.

OpenStack Tenants
  Placement Policies

**Configured (0)** Remove All

No items

+ Add

Continue
Cancel

**Assign Placement Policies/OpenStack Tenants**

Tenants assigned to one shared Service Package should not have overlapping IP addresses in their networks.

OpenStack Tenants  Placement Policies

**Available (2)** Select All

service	+
demo	+

**Configured (0)** Remove All

No items

**Assign Placement Policies/OpenStack Tenants**

Tenants assigned to one shared Service Package should not have overlapping IP addresses in their networks.

OpenStack Tenants  Placement Policies

**Available (0)** Select All

No items

**Configured (2)** Remove All

demo	-
service	-

Step5: Click "Done" to complete the creation of service package and view the newly created Service package under the Service package menu.

### Assign Tenant

OpenStack Tenants
  Placement Policies

**Configured (2)** Remove All

service	-
demo	-

Done

### Service Packages

↻ 📄

Add Edit Delete Action ▾
⚙️ ▾

☐	Name	# Of Tenants	Device Type	Platform Type	Resources	Isolation Policy
☐	shared sp	2	NetScalerVPX	--N/A--	--N/A--	shared

After the successful creation of service package, when the OpenStack tenants that are assigned in the service package try to consume LBaaS from OpenStack, MAS allocates the NetScaler instances assigned in the service package to the tenant's applications.