



# Unified Deployment

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## Unified Deployment

ESC creates OpenStack resources such as tenants, networks, and subnetworks before deploying a VNF.

During unified deployment, you send a single combined request to create or delete the OpenStack resources, and deploy a VNF. You can create multiple networks and subnetworks, but can create only a single VNF and a single tenant using unified deployment.

A unified deployment request is defined as a new deployment request, and any number of networks and subnetworks located directly inside the deployment definition. Networks and subnets located directly inside the tenant are not considered part of a unified deployment request, and will not be removed during a subsequent undeploy request.

Update the `deployment data model` and the files with the necessary information such as the service and deployment ID, tenant, network and subnetwork ids and so on. You can either use NETCONF or REST APIs. For example, send POST REST and DELETE REST calls.



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**Note** A single NETCONF request can be used to perform multiple actions, such as creating networks and subnetworks; creating images, flavors and deploying VNFs.

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See the [Elastic Services Controller Deployment Attributes](#) for a list of deployment attributes.

- To create a deployment datamodel with a single deployment request, send POST REST call to:

```
http://[ESC_IP]:8080/v0/deployments/[internal_dep_id]
```

- To delete a single deployment request, send DELETE REST call to:

```
http://[ESC_IP]:8080/v0/deployments/[internal_dep_id]
```

The VNF will be undeployed, and the network and subnet will be deleted in the specified order.



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**Note** If tenant creation fails as part of a unified deployment request, a manual rollback is needed to clean up ESC. As part of manual rollback, first an undeploy request is required to clean up the deployment, followed by a delete tenant request to clean up the failed tenant creation.

During an undeploy request, any network and subnetwork created as part of the unified deployment request will be deleted along with the VNF. However, the tenant created through unified deployment request will not be deleted.

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