



## Node Specific Configuration

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### Extracting System UUID to Configure Nodes

If you are deploying a system on a heterogeneous hardware, you can specify parameters using the node specific configuration.

A node is deployed in the Overcloud environment with a pre-defined configuration. You can define host specific configuration for a node to override the existing configurations using the `NodeDataLookup` parameter of a node. You can access a specific node using the unique system UUID attached to it. The system UUID for a node can be extracted using the `dmidecode` command. After you extract UUID, you can access the `NodeDataLookup` parameter and edit it to override the node configuration.

To override a node configuration before deploying it to the overcloud, you need to extract system UUID of a node using a different method. Complete the following steps to extract UUID for a node before it is deployed to the Overcloud:

#### Procedure

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**Step 1** Generate a file that contains node specific information(introspection data). By default, the filename is `Extra_Hardware_[ironic-id]` and is created at the location where the commands are run. For detailed information, see [Accessing additional introspection data](#).

**Step 2** Extract the node system UUID using the `cat` command. For example:

```
# cat extra_hardware-8f50de05-c57c-425f-8071-dc2b61a02ebc | jq -r 'map(select(. [0]=="system" and . [2]=="uuid"))'
```

**Note** In this example, `8f50de05-c57c-425f-8071-dc2b61a02ebc` is the ironic UUID and system UUID is returned via `jq`.

#### Example:

```
NodeDataLookup: | {"41447D6B-157D-1043-84C5-147EF47117C0":
```

```
 {"neutron::agents::n1kv_vem::uplink_profile": {"eth1": "system-uplink"}},
```

```
"neutron::agents::n1kv_vem::vtep_config": {"vtep1": {"profile": "virtprof", "ipmode": "static", "ipaddress":
"172.16.0.31", "netmask": "255.255.255.0"}}, "neutron::agents::n1kv_vem::host_mgmt_intf": "br-ex"},
"9F9CD7D7-6486-BF48-9A20-2E10EBD42A19": {"neutron::agents::n1kv_vem::uplink_profile": {"eth1":
"system-uplink"}},
"neutron::agents::n1kv_vem::vtep_config": {"vtep1": {"profile": "virtprof", "ipmode": "static", "ipaddress":
"172.16.0.56", "netmask": "255.255.255.0"}},
"neutron::agents::n1kv_vem::host_mgmt_intf": "eth2"}}
```

## Mapping Between HEAT Template Parameters and Node Specific Configuration Parameters

The following table lists mapping between HEAT template parameters and node specific configuration parameters:

**Table 1: Mapping Between HEAT Template Parameters and Node Specific Configuration Parameters**

HEAT Template Parameter	Node Specific Configuration Parameter
N1000vVEMHostMgmtIntf	neutron::agents::n1kv_vem::host_mgmt_intf
N1000vUplinkProfile	neutron::agents::n1kv_vem::uplink_profile
N1000vVtepConfig	neutron::agents::n1kv_vem::vtep_config
N1000vPortDB	neutron::agents::n1kv_vem::portdb
N1000vVtepsInSameSub	neutron::agents::n1kv_vem::vteps_in_same_subnet
N1000vVEMFastpathFlood	neutron::agents::n1kv_vem::fastpath_flood
N1000vVSMHostMgmtIntf	n1k_vsm::phy_if_bridge
N1000vVSMRole	n1k_vsm::vsm_role
N1000vExistingBridge	n1k_vsm::existing_bridge