



# Configuring WWN Pools

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## WWN Pools

A WWN pool is a collection of WWNs for use by the Fibre Channel vHBAs in a Cisco UCS instance. You create separate pools for the following:

- WW node names assigned to the server
- WW port names assigned to the vHBA



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**Important**

A WWN pool can include only WWNNs or WWPNS in the ranges from 20:00:00:00:00:00:00:00 to 20:FF:FF:FF:FF:FF:FF:FF or from 50:00:00:00:00:00:00:00 to 5F:FF:FF:FF:FF:FF:FF:FF. All other WWN ranges are reserved.

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If you use WWN pools in service profiles, you do not have to manually configure the WWNs that will be used by the server associated with the service profile. In a system that implements multi-tenancy, you can use a WWN pool to control the WWNs used by each organization.

You assign WWNs to pools in blocks. For each block or individual WWN, you can assign a boot target.

### WWNN Pools

A WWNN pool is a WWN pool that contains only WW node names. If you include a pool of WWNNs in a service profile, the associated server is assigned a WWNN from that pool.

### WWPN Pools

A WWPN pool is a WWN pool that contains only WW port names. If you include a pool of WWPNS in a service profile, the port on each vHBA of the associated server is assigned a WWPN from that pool.

# Configuring a WWN Pool



**Important** A WWN pool can include only WWNNs or WWPNS in the ranges from 20:00:00:00:00:00:00:00 to 20:FF:FF:FF:FF:FF:FF:FF:FF or from 50:00:00:00:00:00:00:00 to 5F:FF:FF:FF:FF:FF:FF:FF:FF. All other WWN ranges are reserved.

## Procedure

	Command or Action	Purpose
<b>Step 1</b>	UCS-A# <b>scope org org-name</b>	Enters organization mode for the specified organization. To enter the root organization mode, type / as the <i>org-name</i>
<b>Step 2</b>	UCS-A /org # <b>create wwn-pool wwn-pool-name {node-wwn-assignment   port-wwn-assignment}</b>	Creates a WWN pool with the specified name and purpose, and enters organization WWN pool mode. The purpose of the WWN pool can be one of the following: <ul style="list-style-type: none"> <li>• To assign world wide node names (WWNNs) and world wide port names (WWPNs)</li> <li>• To assign only WWNNs</li> <li>• To assign only WWPNS</li> </ul>
<b>Step 3</b>	UCS-A /org/wwn-pool # <b>set descr description</b>	(Optional) Provides a description for the WWN pool.  <b>Note</b> If your description includes spaces, special characters, or punctuation, you must begin and end your description with quotation marks. The quotation marks will not appear in the description field of any <b>show</b> command output.
<b>Step 4</b>	UCS-A /org/wwn-pool # <b>create block first-wwn last-wwn</b>	(Optional) Creates a block (range) of WWNs, and enters organization WWN pool block mode. You must specify the first and last WWN in the block using the form <i>nn : nn : nn : nn : nn : nn : nn : nn</i> , with the WWNs separated by a space.  <b>Note</b> A WWN pool can contain more than one WWN block. To create multiple WWN blocks, you must enter multiple <b>create block</b> commands from organization WWN pool mode.
<b>Step 5</b>	UCS-A /org/wwn-pool # <b>create initiator wwn wwn</b>	(Optional) Creates a single initiator, and enters organization WWN pool initiator mode. You must specify the initiator using the form <i>nn : nn : nn : nn : nn : nn : nn : nn</i> .  <b>Note</b> A WWN pool can contain more than one initiator. To create multiple initiators, you must enter multiple <b>create initiator</b> commands from organization WWN pool mode.

	Command or Action	Purpose
<b>Step 6</b>	UCS-A /org/wwn-pool/block <b>commit-buffer</b>	Commits the transaction to the system configuration.

The following example creates a WWN pool named sanpool, provides a description for the pool, specifies a block of WWNs and an initiator to be used for the pool, and commits the transaction:

```
UCS-A# scope org
UCS-A /org # create wwn-pool sanpool node-wwn-assignment
UCS-A /org/wwn-pool* # set descr "This is my WWNN pool"
UCS-A /org/wwn-pool* # create block 23:00:00:05:AD:1E:00:01 23:00:00:05:AD:1E:01:00
UCS-A /org/wwn-pool/block* # exit
UCS-A /org/wwn-pool* # create initiator 23:00:00:05:AD:1E:02:00
UCS-A /org/wwn-pool/initiator* # commit-buffer
UCS-A /org/wwn-pool/initiator #
```

### What to Do Next

Include the WWPN pool in a vHBA template.

