



## Configuring Big Data IP Pools

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### Big Data IP Pools

Big Data IP pools contain blocks of IP addresses that Cisco UCS Director Express for Big Data uses during the creation of Hadoop clusters. The IP addresses in each block must belong to the same subnet mask, default gateway, primary domain name server (DNS), and secondary DNS.



**Note** All IP addresses in a Big Data IP pool must be IPv4 addresses.

### Adding a Big Data IP Pool

**Step 1** Choose **Solutions > Big Data > Settings**.

**Step 2** Click **Big Data IP Pools**.

**Step 3** Click **Add**.

**Step 4** In the **IP Pool Management Specification** page of the **Create an IP Pool** wizard, complete the following fields:

Name	Description
<b>IP Pool Name</b> field	A unique name for the IP Pool.
<b>Description</b> field	A short description that identifies the purpose of the pool.

Name	Description
<b>Assignment Order</b> drop-down list	The assignment order. Choose one of the following: <ul style="list-style-type: none"> <li>• <b>Default</b>—A random identity is selected from the pool.</li> <li>• <b>Sequential</b>—The lowest available identity is selected from the pool.</li> </ul>
<b>Domain Name</b> field	Enter the domain name. For example, cisco.com.

**Step 5** Click **Next**.

**Step 6** In the **IPv4 Addresses** page of the **Create an IP Pool** wizard, complete the following fields:

- In the IPv4 Blocks table, click **Add (+)**.
- On the **Add Entry to IPv4 Blocks** screen, enter the IPv4 addresses to be included in the IP pool in the **Static IP Pool** field.

This can be a range of IP addresses, or a series of IP addresses separated by commas (,).
- Enter the subnet mask.
- Enter the default gateway.
- Enter the primary DNS server IPv4 address.
- Enter the server DNS server IPv4 address.
- Click **Submit** to save and exit.

**Step 7** Click **Submit**.

## Managing Big Data IP Pools

**Step 1** Choose **Solutions > Big Data > Settings**.

**Step 2** Click **Big Data IP Pools**. The following buttons are displayed.

Name	Description
<b>Refresh</b>	Refreshes the current page.
<b>Add</b>	Adds a new IP pool.

**Step 3** For the following actions, choose an IP Pool from the table:

Name	Description
<b>Edit</b>	Modifies the IP pool specification.
<b>Delete</b>	Deletes the IP pool specification.

Name	Description
<b>View Details</b>	Allows you to view the IPv4 addresses in the IP pool and to view more reports.  <b>Note</b> If you see a <b>License Status</b> tab, it indicates a licensing issue.

**Step 4** With an IP Pool selected, click **View Details**.

**Step 5** Click **IPv4 Addresses** to display the IP Addresses associated with the selected IP Pool.

**Step 6** Select an IP Address from the table. The following buttons are displayed.

Name	Description
<b>Release IP Address</b>	The IP address is made available to be assigned against any bare metal server.
<b>Release Multiple IP Addresses</b>	Enables you to choose and release more than one IP address from the <b>Release Multiple IP Addresses</b> dialog box.

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