



## 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**

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

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### Adding a Big Data IP Pool

**Step 1** On the menu bar, choose **Solutions > Big Data > Settings**.

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

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

**Step 4** In the **IP Pool** 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
Assignment Order drop-down list	Choose the assignment order. This could be 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>

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

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

- a) In the **IPv4 Blocks** field, click **Add (+)**.
- b) In the **Add Entry to IPv4 Blocks** dialog box, enter the IP addresses that are 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 a comma (,).
- c) In the following fields, enter the appropriate information for all the IP addresses in the pool:
  - **Static IP Pool** field
  - **Subnet Mask** field
  - **Default Gateway** field
  - **Primary DNS** field
  - **Secondary DNS** field
- d) Click **Submit**.

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

## Managing Big Data IP Pools

**Step 1** On the menu bar, choose **Solutions > Big Data > Settings**.

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

**Step 3** The Big Data IP Pools tab provides the following actions:

Name	Description
Refresh	Refreshes the current page.
Add	Adds a new IP pool.

**Step 4** For the following additional 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.
<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 5** With an IP Pool selected, click on the **View Details** button.

**Step 6** Click the **IPv4 Addresses** tab to display the IP Addresses associated with the selected IP Pool.

**Step 7** 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 BareMetal 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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