Configuring Big Data IP Pools

This chapter contains the following sections:

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 On the menu bar, choose **Solutions** > **Big Data Containers**.

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

Step 3 Click **Add**.

Step 4 1n the **IP Pool** page of the **Create an IP Pool** wizard, complete the following fields:

Name	Description
IP Pool Name field	A unique name for the IP Pool.
Description 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: • **Default**—A random identity is selected from the pool. • **Sequential**—The lowest available identity is selected from the pool.

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:

        • **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 Containers**.

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 the row of an IP pool:

Name	Description
Edit	Modifies the IP pool specification.
Delete	Deletes the IP pool specification.
View Details	Allows you to view the IPv4 addresses in the IP pool and to view more reports. **Note** If you see a **License Status** tab, it indicates a licensing issue.

Step 5 Click the **IPv4 Addresses** tab, and choose any row from the list of IPv4 addresses and perform the following additional actions:

Name	Description
Release IP Address	The IP address is made available to be assigned against any BareMetal server.
Release Multiple IP Addresses	Enables you to choose and release more than one IP address from the **Release Multiple IP Addresses** dialog box.