Replication

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Configuring Replication

To configure replication on a HyperFlex Controller VM in a Stretched Cluster, you can complete the necessary VLAN configuration on the fabric interconnects using UCS Manager manually. Alternately, you can create a new VLAN in .HX Connect. Ensure to use the same VLAN configuration on the UCSM fabric interconnects, on both the sites in a Stretched Cluster.

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Attention

For configuring the replication network in a Stretched Cluster deployment, see the Cisco HyperFlex Administration Guide, Release 3.5.

Configuring Replication VLAN in Cisco UCS Manager

To configure the replication VLAN using UCS Manager, complete the following steps in Site-A and Site-B:

1. Create a replication VLAN.
2. Associate the replication VLAN to the HX service profile of the HyperFlex cluster.

Creating Replication VLAN

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Attention

It is best practice to delete unnecessary and stale VLANs. If the VLANs already exist on your fabric interconnect, you do not have to recreate it.

Create the following replication VLANs, if you do not see them in your HyperFlex cluster. Strictly follow the naming conventions that are specified in the table.
### Creating Replication VLAN

<table>
<thead>
<tr>
<th>VLAN ID</th>
<th>Specify Name</th>
<th>Name Displayed in UCSM</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;VLAN ID&gt;</td>
<td>&lt;hx-inband-repl-VLAN ID&gt;</td>
<td>hx-inband-repl-VLAN ID (VLAN ID)</td>
</tr>
</tbody>
</table>

#### Step 1
Log in to Cisco UCS Manager. In the Navigation pane, click **LAN**.

#### Step 2
On the **LAN** tab, right-click **VLANs** and click **Create VLANs**.

#### Step 3
In the **Create VLANs** dialog box, complete the following fields for all the VLANs that must be supported on the fabric interconnect:
## UI Element | Essential Information
--- | ---
VLAN Name/Prefix field | Enter the VLAN name prefix. For example, `hx-inband-repl-810`.
Multicast Policy Name field | `<not set>`
Common/Global check box | Choose the fabric configuration option.
Fabric A check box |  
Fabric B check box |  
Both Fabric Configured Differently check box |  
VLAN IDs field | Enter the VLAN ID, to create a global VLAN that maps to the same VLAN IDs in all available fabrics. For example, `810`.
Associating Replication VLAN to a HyperFlex Cluster

To associate the replication VLANs to the HX service profile of the HyperFlex cluster, complete the following steps.

<table>
<thead>
<tr>
<th>UI Element</th>
<th>Essential Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sharing Type check box</td>
<td>Choose the sharing type:</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Primary</td>
</tr>
<tr>
<td></td>
<td>Isolated</td>
</tr>
<tr>
<td></td>
<td>Community</td>
</tr>
</tbody>
</table>

Step 4  Click OK.
Before you begin

Create VLANs for replication in UCS Manager.

**Step 1** Log in to Cisco UCS Manager. In the Navigation pane, click **LAN**.

**Step 2** Navigate to **Policies > root > Sub-Organizations > hx-cluster > vNIC Templates > vNiC Template hv-mgmt**.
Step 3  Select **Modify VLANs** on the work pane.
Step 4  Select the VLANs to associate with the HyperFlex cluster.
Step 5  Click **OK**.