

## **NetApp Solution Automation**

NetApp Solutions

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# **Table of Contents**

NetApp Solution Automation		1
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### **NetApp Solution Automation**

#### **Procedure**

To configure Mellanox switches using ansible playbooks via CLI, follow the below procedure:

1. Download the Mellanox ONYX Ansible collections

```
ansible-galaxy collection install -r collections/requirements.yml --force
```

2. Download the Ansible content required for configuring the Mellanox switches

```
git clone https://bitbucket.ngage.netapp.com/scm/ns-
bb/na_with_mellanox.git
```

3. Change the directory to the required solution

```
cd na_with_mellanox/solutions/nar_hci_mellanox_deploy
```

4. Fill the variables below based on the recommendations/suggestions provided. Once all the variables are filled as per requirement, copy the content by clicking 'Copy' button at the top.

```
<style>
div {
position: relative;
div button {
position: absolute;
top: 0;
right: 0;
button {
  transition-duration: 0.4s;
  background-color: white;
  color: #1563a3;
  border: 2px solid #1563a3;
button:hover {
  background-color: #1563a3;
  color: white;
#more vlans {
```

```
display: block;
#more vlans button {
 display: none;
#more peerlink interfaces {
 display: block;
#more peerlink interfaces button {
 display: none;
#more storage interfaces {
 display: block;
#more storage interfaces button {
 display: none;
#more storage mgmt interfaces {
 display: block;
#more storage mgmt interfaces button {
 display: none;
#more compute interfaces {
 display: block;
#more compute interfaces button {
 display: none;
#more uplink interfaces {
 display: block;
#more uplink interfaces button {
 display: none;
</style>
<div class="listingblock"><div class="content"><div><button id="copy-</pre>
button" onclick="CopyClassText()">Copy</button></div><code><div</pre>
class="CopyMeClass" id="CopyMeID"># vars file for nar hci mellanox deploy
#Hosts group name
#Default hosts group name - 'mellanox'
#Change only if you are changing the hosts group name either in hosts file
or in inventory groups in case of AWX/Tower
hosts: <span <div contenteditable="true"/><i>mellanox</i></span>
```

```
#These set of variables will setup the Mellanox switches for NetApp HCI
that uses a 2-cable compute connectivity option.
#Ansible connection variables for mellanox
ansible connection: network cli
ansible network os: onyx
# Primary Variables
#Necessary VLANs for Standard NetApp HCI Deployment [native, Management,
iSCSI Storage, vMotion, VM Network, IPL]
#Any additional VLANs can be added to this in the prescribed format below
<br>netapp hci vlans:
  - {vlan id: <span <div contenteditable="true"/><i>2</i></span>,
vlan name: "<span <div</pre>
contenteditable="true"/><i>OB Management</i></span>&quot;}
  - {vlan id: <span <div contenteditable="true"/><i>3488</i></span>,
vlan name: "<span <div</pre>
contenteditable="true"/><i>IB Managment</i></span>&quot;}
  - {vlan id: <span <div contenteditable="true"/><i>3489</i></span>,
vlan name: "<span <div</pre>
contenteditable="true"/><i>vMotion</i></span>&quot;}
  - {vlan id: <span <div contenteditable="true"/><i>3490</i></span>,
vlan name: "<span <div</pre>
contenteditable="true"/><i>iSCSI Storage</i></span>&quot;}
  - {vlan id: <span <div contenteditable="true"/><i>3487</i></span>,
vlan name: "<span <div</pre>
contenteditable="true"/><i>Application</i></span>&quot;}
  - {vlan id: <span <div contenteditable="true"/><i>3491</i></span>,
vlan name: "<span <div</pre>
contenteditable="true"/><i>NFS</i></span>&quot; }
  - {vlan id: <span <div contenteditable="true"/><i>4000</i></span>,
vlan name: "<span <div</pre>
contenteditable="true"/><i>IPL</i></span>&quot; }
  - {vlan id: <span <div contenteditable="true"/><i>2</i></span>,
vlan name: "<span <div</pre>
contenteditable="true"/><i>Native</i></span>&quot;}
<a id="more vlans" href="javascript:vlandropdown();">More VLANs</a><div</pre>
id="select more vlans"></div><a id="more vlans button"</pre>
href="javascript:addvlans();">Enter VLAN details</a><div</pre>
id="extra vlans"></div>
#LACP load balancing algorithm for IP hash method
#Possible options are: 'destination-mac', 'destination-ip', 'destination-
port', 'source-mac', 'source-ip', 'source-port', 'source-destination-mac',
'source-destination-ip', 'source-destination-port'
#This variable takes multiple options in a single go
```

```
#For eq: if you want to configure load to be distributed in the port-
channel based on the traffic source and destination IP address and port
number, use 'source-destination-ip source-destination-port'
#By default, Mellanox sets it to source-destination-mac. Enter the values
below only if you intend to configure any other load balancing algorithm
#Make sure the load balancing algorithm that is set here is also
replicated on the host side
#Recommended algorithm is source-destination-ip source-destination-port
lacp load balance: "<span <div contenteditable="true"/><i>source-
destination-ip source-destination-port</i></span>&quot;
#-----
# IPL variables
#-----
#Inter-Peer Link Portchannel
#ipl portchannel to be defined in the format - Po100
ipl portchannel: <span <div contenteditable="true"/><i>Po100</i></span>
#Inter-Peer Link Addresses
#The IPL IP address should not be part of the management network. This is
typically a private network
ipl ipaddr a: <span <div contenteditable="true"/><i>10.0.0.1</i>//i>//span>
ipl ipaddr b: <span <div contenteditable="true"/><i>10.0.0.2</i></span>
#Define the subnet mask in CIDR number format. Eg: For subnet /22, use
ipl ip subnet: 22
ipl ip subnet: <span <div contenteditable="true"/><i>24</i></span>
#Inter-Peer Link Interfaces
#members to be defined with Eth in the format. Eq: Eth1/1
peer link interfaces:
  description: " <span <div contenteditable="true"/><i>peer link
interfaces</i></span>&quot;
  members:
    - " <span <div contenteditable="true"/><i>Eth1/20</i></span>&quot;
    - "<span <div contenteditable="true"/><i>Eth1/22</i></span>&quot;
<a id="more peerlink interfaces" href="javascript:ipldropdown();">More
Peer-Link Interfaces</a><div id="select more peerlink interfaces"></div><a
id="more peerlink interfaces button" href="javascript:addipls();">Enter
peer-link Interface details</a><div id="extra peerlink_interfaces"></div>
#MLAG VIP IP address should be in the same subnet as that of the switches'
mgmt0 interface subnet
#mlag vip ip to be defined in the format - <vip ip>/<subnet mask>. Eg:
x.x.x.x/y and must be unique for each MLAG domain
```

```
mlag vip ip: <span <div</pre>
contenteditable="true"/><i>10.195.60.111/24</i></span>
#MLAG VIP Domain Name
#The mlag domain must be unique name for each mlag domain.
#In case you have more than one pair of MLAG switches on the same network,
each domain (consist of two switches) should be configured with different
mlag domain name: <span <div contenteditable="true"/><i>MLAG-VIP-DOM-10-
16</i></span>
#-----
# Interface Details
#-----
#Storage Bond10G Interface details
#members to be defined with Eth in the format. Eg: Eth1/1
#Only numerical digits between 100 to 1000 allowed for mlag id
#Operational link speed [variable 'speed' below] to be defined in terms of
#For 10 Gigabyte operational speed, define 10G. [Possible values - 10G and
25G1
#Interface descriptions append storage node data port numbers assuming all
Storage Nodes' Port C -> Mellanox Switch A and all Storage Nodes' Port D
-> Mellanox Switch B
#List the storage Bond10G interfaces, their description, speed and MLAG
IDs in list of dictionaries format
storage interfaces:
  - {members: " <span <div
contenteditable="true"/><i>Eth1/13</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node 01</i></span>&quot;, mlag id:
<span <div contenteditable="true"/><i>113</i></span>, speed: <span <div</pre>
contenteditable="true"/><i>10G</i></span>}
  - {members: " <span <div
contenteditable="true"/><i>Eth1/14</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node 02</i></span>&quot;, mlag id:
<span <div contenteditable="true"/><i>114</i></span>, speed: <span <div</pre>
contenteditable="true"/><i>10G</i></span>}
  - {members: " <span <div
contenteditable="true"/><i>Eth1/15</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node 03</i></span>&quot;, mlag id:
<span <div contenteditable="true"/><i>115</i></span>, speed: <span <div</pre>
```

```
contenteditable="true"/><i>10G</i></span>}
  - {members: " <span <div
contenteditable="true"/><i>Eth1/16</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node 04</i></span>&quot;, mlag id:
<span <div contenteditable="true"/><i>116</i></span>, speed: <span <div</pre>
contenteditable="true"/><i>10G</i></span>}
<a id="more storage interfaces" href="javascript:storagedropdown();">More
Interfaces towards Storage Nodes</a><div</pre>
id="select_more_storage_interfaces"></div><a</pre>
id="more storage interfaces button"
href="javascript:addstorageinterfaces();">Enter Storage Interface
details</a><div id="extra storage interfaces"></div>
#Storage Bond1G Interface
#Mention whether or not these Mellanox switches will also be used for
Storage Node Mgmt connections
#Possible inputs for storage mgmt are 'yes' and 'no'
storage mgmt: <span <div contenteditable="true"/><i>no</i></span>
#Storage Bond1G (Mgmt) interface details. Only if 'storage mgmt' is set to
'ves'
#Members to be defined with Eth in the format. Eq: Eth1/1
#Interface descriptions append storage node management port numbers
assuming all Storage Nodes' Port A -> Mellanox Switch A and all Storage
Nodes' Port B -> Mellanox Switch B
#List the storage Bond1G interfaces and their description in list of
dictionaries format
storage mgmt interfaces:
  - {members: " <span <div
contenteditable="true"/><i>Eth1/5</i></span>&quot;, description:
" < span < div
contenteditable="true"/><i>HCI Storage Node 01</i></span>&quot;}
  - {members: " <span <div
contenteditable="true"/><i>Eth1/6</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node 02</i></span>&quot;}
  - {members: " <span <div
contenteditable="true"/><i>Eth1/7</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node 03</i></span>&quot;}
  - {members: " <span <div
contenteditable="true"/><i>Eth1/8</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node 04</i></span>&quot;}
<a id="more storage mgmt interfaces"
```

```
href="javascript:storagemgmtdropdown();">More management interfaces
towards storage nodes</a><div
id="select more storage mgmt interfaces"></div><a</pre>
id="more storage mgmt interfaces button"
href="javascript:addstoragemgmtinterfaces();">Enter Storage Management
Interface details</a><div id="extra storage mgmt interfaces"></div>
#Compute Interface details
#Members to be defined with Eth in the format. Eq: Eth1/1
#Fill the mlag id field only if you intend to configure interfaces of
compute nodes into bond or LAG with LACP
#In case you do not intend to configure LACP on interfaces of compute
nodes, either leave the mlag id field unfilled or comment it or enter NA
in the mlag id field
#In case you have a mixed architecture where some compute nodes require
LACP and some don't,
#1. Fill the mlag id field with appropriate MLAG ID for interfaces that
connect to compute nodes requiring LACP
#2. Either fill NA or leave the mlag id field blank or comment it for
interfaces connecting to compute nodes that do not require LACP
#Only numerical digits between 100 to 1000 allowed for mlag id.
#Operational link speed [variable 'speed' below] to be defined in terms of
#For 10 Gigabyte operational speed, define 10G. [Possible values - 10G and
#Interface descriptions append compute node port numbers assuming all
Compute Nodes' Port D -> Mellanox Switch A and all Compute Nodes' Port E
-> Mellanox Switch B
#List the compute interfaces, their speed, MLAG IDs and their description
in list of dictionaries format
compute interfaces:
  - members: " <span <div
contenteditable="true"/><i>Eth1/2</i></span>&quot;
    description: " <span <div
contenteditable="true"/><i>HCI Compute Node 01</i></span>&quot;
    mlag id: <span <div contenteditable="true"/><i> </i></span> #Fill the
mlag id only if you wish to use LACP on interfaces towards compute nodes
    speed: <span <div contenteditable="true"/><i>10G</i></span>
  - members: " <span <div
contenteditable="true"/><i>Eth1/4</i></span>&quot;
    description: " <span <div
contenteditable="true"/><i>HCI Compute Node 02</i></span>&quot;
    mlag id: <span <div contenteditable="true"/><i>104</i></span> #Fill
the mlag id only if you wish to use LACP on interfaces towards compute
    speed: <span <div contenteditable="true"/><i>10G</i></span>
```

```
<a id="more compute interfaces" href="javascript:computedropdown();">More
interfaces towards compute nodes</a><div
id="select more compute interfaces"></div><a
id="more compute interfaces button"
href="javascript:addcomputeinterfaces();">Enter Compute Interface
details</a><div id="extra compute interfaces"></div>
#Spanning-tree protocol type for uplink connections.
#The valid options are 'network' and 'normal'; selection depends on the
uplink switch model.
uplink stp type: <span <div contenteditable="true"/><i>network</i></span>
#Uplink Switch LACP support
#Possible options are 'yes' and 'no' - Set to 'yes' only if your uplink
switch supports LACP
uplink switch lacp: <span <div contenteditable="true"/><i>yes</i></span>
#Uplink Interface details
#Members to be defined with Eth in the format. Eq: Eth1/1
#Only numerical digits between 100 to 1000 allowed for mlag id.
#Operational link speed [variable 'speed' below] to be defined in terms of
bytes.
#For 10 Gigabyte operational speed, define 10G. [Possible values in
Mellanox are 1G, 10G and 25G]
#List the uplink interfaces, their description, MLAG IDs and their speed
in list of dictionaries format
uplink interfaces:
  - members: " <span <div
contenteditable="true"/><i>Eth1/18</i></span>&quot;
    description switch a: " <span <div
contenteditable="true"/><i>SwitchA:Ethx/y ->
Uplink Switch:Ethx/y</i></span>&quot;
    description switch b: " <span <div
contenteditable="true"/><i>SwitchB:Ethx/y ->
Uplink Switch:Ethx/y</i></span>&quot;
    mlag id: <span <div contenteditable="true"/><i>118</i></span> #Fill
the mlag id only if 'uplink switch lacp' is set to 'yes'
    speed: <span <div contenteditable="true"/><i>10G</i></span>
    mtu: <span <div contenteditable="true"/><i>1500</i></span>
<a id="more uplink interfaces" href="javascript:uplinkdropdown();">More
interfaces towards uplink switches</a><div</pre>
id="select more uplink interfaces"></div><a</pre>
id="more uplink interfaces button"
href="javascript:adduplinkinterfaces();">Enter Uplink Interface
details</a><div
id="extra uplink interfaces"></div></code></div></div></ri>
```

```
<script>
function CopyClassText() {
    var textToCopy = document.getElementById("CopyMeID");
    var currentRange;
    if(document.getSelection().rangeCount > 0)
        currentRange = document.getSelection().getRangeAt(0);
        window.getSelection().removeRange(currentRange);
    else
       currentRange = false;
    var CopyRange = document.createRange();
    CopyRange.selectNode(textToCopy);
    window.getSelection().addRange(CopyRange);
    document.getElementById("more vlans").style.display = "none";
    document.getElementById("more peerlink interfaces").style.display =
"none";
    document.getElementById("more storage interfaces").style.display =
    document.getElementById("more storage mgmt interfaces").style.display
= "none";
    document.getElementById("more compute interfaces").style.display =
"none";
    document.getElementById("more uplink interfaces").style.display =
"none";
    var command = document.execCommand("copy");
      if (command)
          document.getElementById("copy-button").innerHTML = "Copied!";
          setTimeout(revert copy, 3000);
    window.getSelection().removeRange(CopyRange);
    if(currentRange)
        window.getSelection().addRange(currentRange);
function revert copy() {
      document.getElementById("copy-button").innerHTML = "Copy";
      document.getElementById("more vlans").style.display = "block";
      document.getElementById("more peerlink interfaces").style.display =
"block";
      document.getElementById("more storage interfaces").style.display =
"block";
```

```
document.getElementById("more storage mgmt interfaces").style.display =
"block";
     document.getElementById("more compute interfaces").style.display =
     document.getElementById("more uplink interfaces").style.display =
"block";
function vlandropdown() {
    document.getElementById("more vlans").style.display = "none";
    document.getElementById("more vlans button").style.display = "block";
   var x=1;
   var myHTML = '';
   var buildup = '';
   var wrapper = document.getElementById("select more vlans");
   while (x < 100) {
     buildup += '<option value="' + x + '">' + x + '</option>';
     x++;
    myHTML += '<a id="more vlans info">How many extra VLANs do you wish to
add?</a><select name="number_of_extra_vlans" id="number_of_extra_vlans">'
+ buildup + '</select>';
    wrapper.innerHTML = myHTML;
}
function addvlans() {
   var y = document.getElementById("number of extra vlans").value;
   var j=0;
   var myHTML = '';
   var wrapper = document.getElementById("extra vlans");
   while (j < y) {
        j++;
        myHTML += ' - {vlan id: <span <div contenteditable="true"/><i>
</i></span>, vlan name: &quot;<span <div contenteditable="true"/><i>
</i></span>&quot;}<br>';
   }
   wrapper.innerHTML = myHTML;
    document.getElementById("select more vlans").style.display = "none";
    document.getElementById("more vlans button").style.display = "none";
}
function ipldropdown() {
    document.getElementById("more peerlink interfaces").style.display =
"none";
document.getElementById("more peerlink interfaces button").style.display =
"block";
```

```
var x=1;
    var myHTML = '';
   var buildup = '';
   var wrapper =
document.getElementById("select more peerlink interfaces");
    while (x < 10) {
       buildup += '<option value="' + x + '">' + x + '</option>';
        x++;
    myHTML += '<a id="more peerlink interfaces info">How many more Peer-
Link Interfaces do you wish to add?</a><select
name="number of extra peerlink interfaces"
id="number of extra peerlink interfaces">' + buildup + '</select>';
    wrapper.innerHTML = myHTML;
function addipls() {
   var y =
document.getElementById("number of extra peerlink interfaces").value;
   var j=0;
   var myHTML = '';
   var wrapper = document.getElementById("extra peerlink interfaces");
   while (j < y) {
        j++;
        myHTML += ' - "<span <div contenteditable="true"/><i>
</i></span>&quot;<br>';
    wrapper.innerHTML = myHTML;
document.getElementById("select more peerlink interfaces").style.display =
"none";
document.getElementById("more peerlink interfaces button").style.display =
"none";
function storagedropdown() {
    document.getElementById("more storage interfaces").style.display =
"none";
document.getElementById("more storage interfaces button").style.display =
"block";
   var x=1;
   var myHTML = '';
   var buildup = '';
   var wrapper =
document.getElementById("select more storage interfaces");
    while (x < 10) {
```

```
buildup += '<option value="' + x + '">' + x + '</option>';
        x++;
    }
    myHTML += '<a id="more storage interfaces info">How many more Storage
Interfaces do you wish to add?</a><select
name="number of extra storage interfaces"
id="number of extra storage interfaces">' + buildup + '</select>';
    wrapper.innerHTML = myHTML;
function addstorageinterfaces() {
    var y =
document.getElementById("number of extra storage interfaces").value;
    var j=0;
   var myHTML = '';
   var wrapper = document.getElementById("extra storage interfaces");
   while (j < y) {
        j++;
        myHTML += ' - {members: "<span <div</pre>
contenteditable="true"/><i>Ethx/y</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node x</i></span>&quot;, mlag id:
<span <div contenteditable="true"/><i>xxx</i></span>, speed: <span <div</pre>
contenteditable="true"/><i>10G</i></span>}<br>';
    wrapper.innerHTML = myHTML;
document.getElementById("select more storage interfaces").style.display =
"none";
document.getElementById("more storage interfaces button").style.display =
"none";
function storagemgmtdropdown() {
    document.getElementById("more storage mgmt interfaces").style.display
= "none";
document.getElementById("more storage mgmt interfaces button").style.displ
ay = "block";
   var x=1;
   var myHTML = '';
   var buildup = '';
   var wrapper =
document.getElementById("select more storage mgmt interfaces");
    while (x < 10) {
        buildup += '<option value="' + x + '">' + x + '</option>';
```

```
myHTML += '<a id="more storage mgmt interfaces info">How many more
Storage Management Interfaces do you wish to add?</a><select
name="number of extra storage mgmt interfaces"
id="number of extra storage mgmt interfaces">' + buildup + '</select>';
    wrapper.innerHTML = myHTML;
}
function addstoragemgmtinterfaces() {
document.getElementById("number of extra storage mgmt interfaces").value;
   var j=0;
   var myHTML = '';
   var wrapper =
document.getElementById("extra storage mgmt interfaces");
    while (j < y) {
        j++;
        myHTML += ' - {members: "<span <div</pre>
contenteditable="true"/><i>Ethx/y</i></span>&quot;, description:
" <span <div
contenteditable="true"/><i>HCI Storage Node x</i></span>&quot;}<br>';
    wrapper.innerHTML = myHTML;
document.getElementById("select more storage mgmt interfaces").style.displ
ay = "none";
document.getElementById("more storage mgmt interfaces button").style.displ
ay = "none";
}
function computedropdown() {
    document.getElementById("more compute interfaces").style.display =
"none";
document.getElementById("more compute interfaces button").style.display =
"block";
   var x=1;
   var myHTML = '';
   var buildup = '';
   var wrapper =
document.getElementById("select more compute interfaces");
    while (x < 10) {
       buildup += '<option value="' + x + '">' + x + '</option>';
        x++;
    myHTML += '<a id="more compute interfaces info">How many more Compute
Interfaces do you wish to add?</a><select
```

```
name="number of extra compute interfaces"
id="number of extra compute interfaces">' + buildup + '</select>';
    wrapper.innerHTML = myHTML;
}
function addcomputeinterfaces() {
   var y =
document.getElementById("number of extra compute interfaces").value;
   var j=0;
   var myHTML = '';
   var wrapper = document.getElementById("extra compute interfaces");
   while (j < y) {
        j++;
        myHTML += ' - members: "<span <div</pre>
contenteditable="true"/><i>Ethx/y</i></span>&quot;<br> description:
" <span <div
contenteditable="true"/><i>HCI Compute Node x</i></span>&quot;<br>
mlag id: <span <div contenteditable="true"/><i> </i></span> #Fill the
mlag id only if you wish to use LACP on interfaces towards compute
nodes<br/>speed: <span <div</pre>
contenteditable="true"/><i>10G</i></span><br>';
   wrapper.innerHTML = myHTML;
document.getElementById("select more compute interfaces").style.display =
"none";
document.getElementById("more compute interfaces button").style.display =
"none";
function uplinkdropdown() {
    document.getElementById("more uplink interfaces").style.display =
"none";
    document.getElementById("more uplink interfaces button").style.display
= "block";
   var x=1;
   var myHTML = '';
   var buildup = '';
   var wrapper =
document.getElementById("select more uplink interfaces");
    while (x < 10) {
       buildup += '<option value="' + x + '">' + x + '</option>';
    myHTML += '<a id="more uplink interfaces info">How many more Uplink
Interfaces do you wish to add?</a><select
name="number_of_extra_uplink interfaces"
```

```
id="number of extra uplink interfaces">' + buildup + '</select>';
   wrapper.innerHTML = myHTML;
}
function adduplinkinterfaces() {
   var y =
document.getElementById("number of extra uplink interfaces").value;
   var j=0;
   var myHTML = '';
   var wrapper = document.getElementById("extra uplink interfaces");
   while (j < y) {
       j++;
       myHTML += ' - members: "<span <div</pre>
contenteditable="true"/><i>Ethx/y</i></span>&quot;<br>
description switch a: " <span <div
contenteditable="true"/><i>SwitchA:Ethx/y ->
Uplink Switch:Ethx/y</i></span>&quot;<br/>description switch b:
"<span <div contenteditable="true"/><i>SwitchB:Ethx/y ->
contenteditable="true"/><i>xxx</i></span> #Fill the mlag id only if
uplink switch lacp is set to yes<br/>
speed: <span <div
contenteditable="true"/><i>1500</i></span><br>';
   wrapper.innerHTML = myHTML;
   document.getElementById("select more uplink interfaces").style.display
= "none";
   document.getElementById("more uplink interfaces button").style.display
= "none";
}
</script>
```

- 4. Create a new variable file (yml file) in the current directory (directory same as that of the playbook) and paste the copied variables into the file and save it.
- 5. Fill the IP addresses/hostnames of Mellanox switches below and copy the content. Open the hosts file, clear all the information present and paste the copied content to it.

```
<style>
div {
position: relative;
}
div button {
position: absolute;
top: 0;
right: 0;
}
```

```
button {
  transition-duration: 0.4s;
 background-color: white;
 color: #1563a3;
 border: 2px solid #1563a3;
}
button:hover {
 background-color: #1563a3;
 color: white;
</style>
<div class="listingblock"><div class="content"><div><button id="copy-host-</pre>
button" onclick="CopyHostClass()">Copy</button></div><code><div
class="CopyMeHostClass" id="CopyMeHostID">[mellanox]
<span <div contenteditable="true"/><i>x.x.x</i></span> id="A" #IP
Address of the Mellanox Switch A
<span <div contenteditable="true"/><i>y.y.y</i></span> id="B" #IP
Address of the Mellanox Switch B</div></code></div></div>
<script>
function CopyHostClass() {
    var textToCopy = document.getElementById("CopyMeHostID");
   var currentRange;
    if(document.getSelection().rangeCount > 0)
        currentRange = document.getSelection().getRangeAt(0);
        window.getSelection().removeRange(currentRange);
    else
       currentRange = false;
    var CopyRange = document.createRange();
    CopyRange.selectNode(textToCopy);
    window.getSelection().addRange(CopyRange);
    var command = document.execCommand("copy");
     if (command)
          document.getElementById("copy-host-button").innerHTML =
"Copied!";
          setTimeout(revert host copy, 3000);
    window.getSelection().removeRange(CopyRange);
    if(currentRange)
        window.getSelection().addRange(currentRange);
```

```
function revert_host_copy() {
    document.getElementById("copy-host-button").innerHTML = "Copy";
}
</script>
```

6. Run the playbook by passing the variable file and mellanox switch username. Fill the password for Mellanox switches when prompted.

```
<style>
div {
position: relative;
div button {
position: absolute;
top: 0;
right: 0;
button {
  transition-duration: 0.4s;
 background-color: white;
 color: #1563a3;
 border: 2px solid #1563a3;
}
button:hover {
 background-color: #1563a3;
  color: white;
}
</style>
<div class="listingblock"><div class="content"><div><button id="copy-</pre>
playbook-button"
onclick="CopyPlaybookClass()">Copy</button></div><code><div
class="CopyMePlaybookClass" id="CopyMePlaybookCommand">ansible-playbook -i
hosts nar hci mellanox deploy playbook.yml -u <span <div
contenteditable="true"/><i>mellanox switch username</i></span> -k -e
@mellanox vars.yml</div></code></div></div>
<script>
function CopyPlaybookClass() {
    var textToCopy = document.getElementById("CopyMePlaybookCommand");
    var currentRange;
    if(document.getSelection().rangeCount > 0)
        currentRange = document.getSelection().getRangeAt(0);
        window.getSelection().removeRange(currentRange);
```

```
else
        currentRange = false;
    var CopyRange = document.createRange();
    CopyRange.selectNode(textToCopy);
    window.getSelection().addRange(CopyRange);
   var command = document.execCommand("copy");
      if (command)
          document.getElementById("copy-playbook-button").innerHTML =
"Copied!";
          setTimeout(revert playbook copy, 3000);
    window.getSelection().removeRange(CopyRange);
    if(currentRange)
        window.getSelection().addRange(currentRange);
function revert playbook copy() {
      document.getElementById("copy-playbook-button").innerHTML = "Copy";
</script>
```

a

Replace mellanox\_switch\_username with the appropriate username for logging in the mellanox switches before running the playbook with above command.

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