Hewlett Packard
Enterprise

HPE ProLiant DL380 Gen10 Server-Configuring ILO in Online Mode on ESXi 6.7 Through HPONCFG

Objective

ILO 4 and ILO 5 Configuration in online mode through HPONCFG

Environment

ML/DL/BL servers

Running Esxi 6.7 Operating system

ILO 4 and ILO 5

Steps

Steps to configure:

NOTE: Below Images are given only for reference.

1.Verify if the **HPONCFG is installed.**

Run the command ./hponcfg -h

Same screen will appear for ILO 4 and ILO 5.Image is only for reference.

```
/opt/hp/tools # ./hponcfg -h
HP Lights-Out Online Configuration utility

Version 4.4-0 (c) Hewlett-Packard Company, 2014
Firmware Revision = 2.20 Device type = [redacted] Driver name = hpilo
iLO IP Address: 192.168.10.2

USAGE:
  hponcfg  -?
  hponcfg  -h
  hponcfg  -m minFw
  hponcfg  -r [-m minFw ]
  hponcfg  [-a] -w filename [-m minFw]
  hponcfg  -g [-m minFw]
  hponcfg  -f filename [-l filename] [-s namevaluepair] [-v] [-m minFw]
  hponcfg  -i [-l filename] [-s namevaluepair] [-v] [-m minFw]
```

HPONCFG is included with the Hewlett Packard Enterprise custom VMware ESXi 6.5,6.7, or 7.0 image.

The hpilo driver is included in the image (either Hewlett Packard Enterprise custom or standard VMware).

In case if you find it not installed then install the below offline bundle and offline Utility.

below links are given for ILO 5.

*** RECOMMENDED * HPE Offline Bundle for ESXi 6.7**

https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX_c22d7d37bd6f43cfae054b3693&swEnvOid=2000343#tab1

*** RECOMMENDED * HPE Utilities Bundle Smart Component for ESXi 6.7**

https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX_e254b102f55344fdacbe889683&swEnvOid=2000343

Once installed we can see the screen as above while running the command **./hponcfg -h.**

IP Address of ILO will be shown as 0.0.0.0.

2.We need to Export the current Management Processor configuration to a file for editing, As below

```
/opt/hp/tools # ./hponcfg -w /tmp/hp-ilo.txt
HP Lights-Out Online Configuration utility

Version 4.4-0 (c) Hewlett-Packard Company, 2014
Firmware Revision = 2.20 Device type = [redacted] Driver name = hpilo
iLO IP Address: 0.0.0.0
Management Processor configuration is successfully written to file "/tmp/
```

3.This will export the current configuration and save to a file /tmp/hp-ilo.txt. If modifying iLO IP settings for the first time, the file should look like below

```
/opt/hp/tools # cat /tmp/hp-ilo.txt
<!-- HPONCFG VERSION = "4.4-0.0" -->
<!-- Generated 11/2/2018 17:17:32 -->
<RIBCL VERSION="2.1">
 <LOGIN USER_LOGIN="Administrator" PASSWORD="password">
  <DIR_INFO MODE="write">
  <MOD_DIR_CONFIG>
    <DIR_AUTHENTICATION_ENABLED VALUE = "N"/>
    <DIR_LOCAL_USER_ACCT VALUE = "Y"/>
    <DIR_SERVER_ADDRESS VALUE = ""/>
    <DIR_SERVER_PORT VALUE = "636"/>
    <DIR_OBJECT_DN VALUE = ""/>
    <DIR_OBJECT_PASSWORD VALUE = ""/>
    <DIR_USER_CONTEXT_1 VALUE = ""/>
    <DIR_USER_CONTEXT_2 VALUE = ""/>
    <DIR_USER_CONTEXT_3 VALUE = ""/>
  </MOD_DIR_CONFIG>
  </DIR_INFO>
  <RIB_INFO MODE="write">
  <MOD_NETWORK_SETTINGS>
    <SPEED_AUTOSELECT VALUE = "Y"/>
    <NIC_SPEED VALUE = "10"/>
    <FULL_DUPLEX VALUE = "N"/>
```

```
    <IP_ADDRESS VALUE = "0.0.0.0"/>
    <SUBNET_MASK VALUE = "0.0.0.0"/>
    <GATEWAY_IP_ADDRESS VALUE = "0.0.0.0"/>
    <DNS_NAME VALUE = "ILOCZJ5380DM1"/>
    <PRIM_DNS_SERVER value = "0.0.0.0"/>
    <DHCP_ENABLE VALUE = "Y"/>
    <DOMAIN_NAME VALUE = ""/>
    <DHCP_GATEWAY VALUE = "Y"/>
    <DHCP_DNS_SERVER VALUE = "Y"/>
    <DHCP_STATIC_ROUTE VALUE = "Y"/>
    <DHCP_WINS_SERVER VALUE = "Y"/>
    <REG_WINS_SERVER VALUE = "Y"/>
    <PRIM_WINS_SERVER value = "0.0.0.0"/>
    <STATIC_ROUTE_1 DEST = "0.0.0.0" GATEWAY = "0.0.0.0"/>
    <STATIC_ROUTE_2 DEST = "0.0.0.0" GATEWAY = "0.0.0.0"/>
    <STATIC_ROUTE_3 DEST = "0.0.0.0" GATEWAY = "0.0.0.0"/>
  </MOD_NETWORK_SETTINGS>
  </RIB_INFO>
  <USER_INFO MODE="write">
  </USER_INFO>
 </LOGIN>
</RIBCL>
```

4.Edit the file to set your iLO IP Address, Subnet mask, and Default gateway.

```
# vi /tmp/hp-ilo.txt
```

For Example: Provide the Values

```
<IP_ADDRESS VALUE = "[redacted]
<SUBNET_MASK VALUE = "[redacted]
<GATEWAY_IP_ADDRESS VALUE = "[redacted]
<PRIM_DNS_SERVER value = "[redacted]
```

disable DHCP If using static IP address

```
<DHCP_ENABLE VALUE = "N"/>
```

5.When done, save the file.

Initiate firmware reset to apply new settings by running the command

```
/opt/hp/tools # ./hponcfg -f  /tmp/hp-ilo.txt
HP Lights-Out Online Configuration utility

Version 4.4-0 (c) Hewlett-Packard Company, 2014
Firmware Revision = 2.20 Device type = [redacted] Driver name = hpilo
iLO IP Address: 0.0.0.0
<INFORM> DHCP is currently disabled, enable DHCP to use any DHCP setting.
<INFORM>Integrated Lights-Out will reset at the end of the script.</INFOR

Please wait while the firmware is reset. This might take a minute
Script succeeded
```

6.Once you receive the message “Script succeeded ,kindly Confirm new IP settings .

```
/opt/hp/tools # ./hponcfg -g
HP Lights-Out Online Configuration utility

Version 4.4-0 (c) Hewlett-Packard Company, 2014
Firmware Revision = 2.20 Device type = [redacted] Driver name = hpilo
iLO IP Address: 192.168.10.2
Host Information:
                        Server Name: Esxi01
                        Server Serial Number: [redacted]
```

7.Once you get the ILO IP address, check by pinging and opening the ILO page.