SPP Automation Team

Mphasis

**SPP Automation**

USER GUIDE

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# **0. Prerequisites**

If you are a RG administrator, please go through the instructions below.

After doing a GIT Pull from Team forge, below steps have to be addressed first. This is a onetime setup process and user doesn't have to repeat it again on same RG setup.

* Before running any of the below steps we are assuming that user has cloned RG repo and developed setup.py from RG repo successfully.
* Go to SPP repo folder and from there open "cmd" and run **python setup.py develop**. This command should execute successfully.
* Install Chrome - Version 50 or above is needed. Preferred choice is latest chrome release available in market.
  + Once Chrome is installed, download latest released chrome driver from <https://sites.google.com/a/chromium.org/chromedriver/> and copy it to C:\Python27\Scripts.
* Download PsTools from <https://technet.microsoft.com/en-us/sysinternals/pxexec.aspx> and add path till PsTools folder into environment variables.
* Install WinCDemu from “\spp\tools\third\_party\WinCDEmu 4.1.exe”. After installation locate installation folder (mostly C:\Program Files (x86)\WinCDEmu ) and add path to environment variables.
* Install latest version of strawberry Perl (recommended is 64bit) from <http://strawberryperl.com/>.
* Once all above steps are completed successfully restart the central RG.

*On instruction about how to add environment variable follow the below link*.

* <https://msdn.microsoft.com/en-us/library/office/ee537574(v=office.14).aspx>

# **1. Win Auto Script**

* Command

|  |  |
| --- | --- |
| Script Name | Command |
| Win\_auto.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> -v SIGNATURE\_BYPASS:<Signature-bypass> win\_auto.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variables** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |
| **SIGNATURE\_BYPASS** | Optional | True, False; default \_True\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services should be installed and running. MacAfee and other windows updates should be installed by user.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting server. In this step script also do a TPM check before reboot.
  + After reboot script will generate second deploy preview report and execute HPSUM\SUM for second time. It will reboot server again after log collection.
  + In last step script will generate third deploy preview report and compare it with first report to check everything is installed or not.

# **2. Win Auto Downgrade Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| Win\_auto\_downgrade.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> -v SIGNATURE\_BYPASS:<Signature-bypass> win\_auto\_downgrade.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |
| **SIGNATURE\_BYPASS** | Optional | True, False; default \_True\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services should be installed and running. MacAfee and other windows updates should be installed by user.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time with downgrade parameter and will collect all HPSUM\SUM logs before rebooting server.
  + After reboot script will generate second deploy preview report and compare it with first report to check everything is installed or not.

# **3. Win Auto Force Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| Win\_auto\_force.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> -v SIGNATURE\_BYPASS:<Signature-bypass> win\_auto\_force.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |
| **SIGNATURE\_BYPASS** | Optional | True, False; default \_True\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services should be installed and running. MacAfee and other windows updates should be installed by user.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time with force parameter and will collect all HPSUM\SUM logs before rebooting server.
  + After reboot script will generate second deploy preview report and compare it with first report to check everything is installed or not.

# **4. Win Auto Force Romonly Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| win\_auto\_force\_romonly.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_auto\_force\_romonly.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |
| **SIGNATURE\_BYPASS** | Optional | True, False; default \_True\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services should be installed and running. MacAfee and other windows updates should be installed by user.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time with force romonly parameter and will collect all HPSUM\SUM logs before rebooting server.
  + After reboot script will generate second deploy preview report and compare it with first report to check everything is installed or not.

# **5. Win Auto Rewrite Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| win\_auto\_rewrite.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> -v SIGNATURE\_BYPASS:<Signature-bypass> win\_auto\_rewrite.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |
| **SIGNATURE\_BYPASS** | Optional | True, False; default \_True\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services should be installed and running. MacAfee and other windows updates should be installed by user.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time with rewrite parameter and will collect all HPSUM\SUM logs before rebooting server.
  + After reboot script will generate second deploy preview report and compare it with first report to check everything is installed or not.

# **6. Win Guided Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| win\_guided.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> -v SIGNATURE\_BYPASS:<Signature-bypass> win\_guided.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |
| **SIGNATURE\_BYPASS** | Optional | True, False; default \_True\_ |

* Prerequisites
  + Firefox should be installed on RG server
  + Firewall should be disabled on OS.
  + SNMP services should be installed and running. MacAfee and other windows updates should be installed by user.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO.
  + Script will then generate first Deploy preview report, after that it will start HPSUM\SUM service on SUT. Script will then open Firefox on RG and access HPSUM\SUM from there.
  + Script will do GUI install and will collect all HPSUM\SUM logs before rebooting server.
  + After reboot script will generate second deploy preview report and again execute HPSUM\SUM. It will collect log before going for reboot again.
  + Script will then generate third deploy preview report and compare it with first report to check everything is installed or not.
* Note
  + While executing HPSUM\SUM first time if no components are found for installation, script will throw a warning and exit.

# **7. Windows Post Install Verification**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| win\_piv.txt | pybot -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> win\_piv.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |

* Prerequisites
  + Firefox should be installed on RG server
  + Firewall should be disabled on OS.
  + SPP installation should be done through automation script only.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO.
  + Script will SSA, SSA CLI, IML utility and take screenshots.
  + Script will check device manager and will report any yellow bang items.
  + Script will collect event information and will report system and application events.
  + Script will check if all required HPSUM\SUM log files are present or not.
  + Script will check all HP services as well as run a SMH and Insight Diagnostic check.
    - Before checking services, script will check weather server is Synergy server or not.
    - If server is synergy server only specific services will be checked.
  + Script will read HPSUM\SUM detail log and if any information related to component number, name and return code is missing. It will report the same.
  + In last step script will uninstall certain programs installed by SPP.

# **8. Windows Post Install Verification for VMware**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| win\_piv\_remote\_vmware.txt | pybot -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> win\_piv\_remote\_vmware.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |

* Prerequisites
  + Firewall should be disabled on both Windows and VMware OS.
  + SPP installation should be done through automation script only.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Script will check if all required HPSUM\SUM logs are present or not.
  + It will report if any log has 0 size.
  + Script will read HPSUM\SUM detail log and if any information related to component number, name and return code is missing. It will report the same.
  + All the above steps will be executed on Host i.e. Windows in this case.

# **9. Windows Remote Install**

* Command
  + **Windows to VMware**
  + **Windows to Linux**

|  |  |
| --- | --- |
| Script Name |  |
| win\_remote.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v REMOTE\_NODE\_IP:<Remote-Node-IP> -v REMOTE\_NODE\_USERNAME:<Remote-Node-Username> -v REMOTE\_NODE\_PASSWORD:<Remote-Node-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_remote.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| REMOTE\_NODE\_IP | Required | System IP address of the target |
| REMOTE\_NODE\_USERNAME | Required | System username of the target; default \_Administrator\_ |
| REMOTE\_NODE\_PASSWORD | Required | System password of the target; default \_Compaq123\_ |
| HTTP\_IMAGE\_PATH | Required | Image location of the SPP source media (must be in HTTP format) |
| SPP\_MOUNT\_TYPE | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Windows and VMware OS.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be checked on both host and target.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting server.
  + After reboot script will generate second deploy preview report and execute HPSUM\SUM for second time. It will reboot server again after log collection.
  + In last step script will generate third deploy preview report and compare it with first report to check everything is installed or not.
  + All HPSUM\SUM related steps will be executed from windows host.
  + In case of VMware target script will generate second deploy preview report, however it will not install SPP since only Firmware are getting installed. Hence script will compare both deploy preview report in this step only.

# **10. Windows Remote Force Install**

* Command
  + **Windows to VMware**
  + **Windows to Linux**

|  |  |
| --- | --- |
| Script Name |  |
| win\_remote\_force.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v REMOTE\_NODE\_IP:<Remote-Node-IP> -v REMOTE\_NODE\_USERNAME:<Remote-Node-Username> -v REMOTE\_NODE\_PASSWORD:<Remote-Node-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_remote\_force.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| REMOTE\_NODE\_IP | Required | System IP address of the target |
| REMOTE\_NODE\_USERNAME | Required | System username of the target; default \_Administrator\_ |
| REMOTE\_NODE\_PASSWORD | Required | System password of the target; default \_Compaq123\_ |
| HTTP\_IMAGE\_PATH | Required | Image location of the SPP source media (must be in HTTP format) |
| SPP\_MOUNT\_TYPE | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Windows and VMware OS.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be checked on both host and target.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting server. Script will use force parameter for SPP installation.
  + After reboot script will generate second deploy preview report and compare it with first preview report to make sure all components installed successfully or not.

# **11. Windows Remote OA Install**

* Command
  + **Windows to OA**

|  |  |
| --- | --- |
| Script Name |  |
| win\_remote\_oa.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v OA\_IP:<OA\_IP> -v OA\_USERNAME:<OA\_Username> -v OA\_PASSWORD:<OA\_Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_remote\_oa.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **OA\_IP** | Required | IP address of the target (OA). |
| **OA\_USERNAME** | Required | OA username of the target; default \_Administrator\_ |
| **OA\_PASSWORD** | Required | OA password of the target; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Windows.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be performed on Windows host.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting server. Script will use CLI parameter for flashing OA as target.
  + After reboot script will generate second deploy preview report and compare it with first preview report to make sure all components installed successfully or not.

# **12. Windows Remote OA Downgrade Install**

* Command
  + **Windows to OA**

|  |  |
| --- | --- |
| Script Name |  |
| win\_remote\_oa\_downgrade.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v REMOTE\_NODE\_IP:<Remote-Node-IP> -v REMOTE\_NODE\_USERNAME:<Remote-Node-Username> -v REMOTE\_NODE\_PASSWORD:<Remote-Node-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_remote\_oa\_downgrade.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **OA\_IP** | Required | IP address of the target (OA). |
| **OA\_USERNAME** | Required | OA username of the target; default \_Administrator\_ |
| **OA\_PASSWORD** | Required | OA password of the target; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Windows.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be performed on Windows host.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting server. Script will use CLI parameter for flashing OA as target.
  + After reboot script will generate second deploy preview report and compare it with first preview report to make sure all components installed successfully or not.

# **13. Windows Remote VC Install**

* Command
  + **Windows to VC**

|  |  |
| --- | --- |
| Script Name |  |
| win\_remote\_vc.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v OA\_USERNAME:<OA\_Username> -v OA\_PASSWORD:<OA\_Password> -v VC\_PRIMARY\_IP:<vc\_primary\_ip> -v VC\_SECONDARY\_IP:<vc\_secondary\_ip> -v VC\_USERNAME:<VC\_username> -v VC\_PASSWORD:<VC\_password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_remote\_vc.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **OA\_USERNAME** | Required | OA username of the target; default \_Administrator\_ |
| **OA\_PASSWORD** | Required | OA password of the target; default \_Compaq123\_ |
| **VC\_PRIMARY\_IP** | Required | Primary IP address of the target (VC) |
| **VC\_SECONDARY\_IP** | Required | Secondary IP address of the target (VC |
| **VC\_USERNAME** | Required | Username of the target VC; default \_Administrator\_ |
| **VC\_PASSWORD** | Required | Password of the target UV; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Windows.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be performed on Windows host.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting server. Script will use CLI parameter for flashing VC as target.
  + After reboot script will generate second deploy preview report and compare it with first preview report to make sure all components installed successfully or not.

# **14. Windows Signature Validation Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| win\_signature\_validation.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> -v SIGNATURE\_BYPASS:<Signature-bypass> win\_signature\_validation.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Required | Image location of the SPP source media (must be in HTTP format) |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |
| **SIGNATURE\_BYPASS** | Optional | True, False; default \_True\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services should be installed and running. MacAfee and other windows updates should be installed by user.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time with downgrade parameter and will collect all HPSUM\SUM logs before rebooting server.
  + After reboot script will generate second deploy preview report and compare it with first report to check everything is installed or not.
  + Script will then start checking unsigned component. It will pull information from device manager and validate it for unsigned component. If any component is found unsigned it will cross check it against deploy preview report and fail the test.

# **15. Windows to Windows Remote Install**

* Command
  + **Windows to Windows**

|  |  |
| --- | --- |
| Script Name |  |
| win\_to\_win\_remote.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v REMOTE\_NODE\_IP:<Remote-Node-IP> -v REMOTE\_NODE\_USERNAME:<Remote-Node-Username> -v REMOTE\_NODE\_PASSWORD:<Remote-Node-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_to\_win\_remote |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| REMOTE\_NODE\_IP | Required | System IP address of the target |
| REMOTE\_NODE\_USERNAME | Required | System username of the target; default \_Administrator\_ |
| REMOTE\_NODE\_PASSWORD | Required | System password of the target; default \_Compaq123\_ |
| HTTP\_IMAGE\_PATH | Required | Image location of the SPP source media (must be in HTTP format) |
| SPP\_MOUNT\_TYPE | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Windows and VMware OS.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be checked on both host and target.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting server.
  + After reboot script will generate second deploy preview report and execute HPSUM\SUM for second time. It will reboot server again after log collection.
  + In last step script will generate third deploy preview report and compare it with first report to check everything is installed or not.
  + All HPSUM\SUM related steps will be executed from windows host.

# **16. Windows Input file Install**

* Command
  + **Windows Input File parameters**

|  |  |
| --- | --- |
| Script Name |  |
| win\_inputfile.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> -v SIGNATURE\_BYPASS:<Signature-bypass> win\_inputfile.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| HTTP\_IMAGE\_PATH | Required | Image location of the SPP source media (must be in HTTP format) |
| SPP\_MOUNT\_TYPE | Optional | Virtual, DVD, USB; default \_Virtual\_ |
| **SIGNATURE\_BYPASS** | Optional | True, False; default \_True\_ |

* Prerequisites
  + Firewall should be disabled on Windows.
  + PSexec is needed on RG and path needs to be added to environment variable. One time setup.
* Brief Description
  + Clean up and server set up – Clean all SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. Check for SUM Version.
  + Script will then update the input file present in \dev\spp\tools\input\_files directory with the current system username and password and then copy those to the SUT.
  + Script will start test cases in the order mentioned below :

1. SUM Software Only with Force Bundle
2. SUM Force Software
3. SUM Downgrade
4. SUM Rom Only
5. SUM Force Rom with AMS
6. SUM Force All
7. SUM Rewrite
8. SUM Reports
9. SUM Component List
10. SUM Dry Run with Reboot
    * For each test case, the script will clean old logs, run SUM with the specified input file, collect logs and reboot the SUT (For scenarios where HPSUM\SUM is reboot the SUT the script will check if the server is rebooted or not).
    * All SUM related steps will be executed from windows host.

# **16. Generic Pointer for Windows Scripts**

* + SIGNATURE\_BYPASS Variable
    - If SIGNATURE\_BYPASS is set to False, script will not install certificates and will not suppress any driver signature pop ups. All signature component will fail with -3 return code in this case.
    - Default value for SIGNATURE\_BYPASS is true, so if user doesn’t provide any input, script will automatically take it as True. In this case all certificates will be installed and script will handle all pop ups.
    - Script will only use certificates present in “\spp\tools\windows\_certificate” folder. User has to provide any new certificates added to SPP beforehand, so dev. team can include same in scripts.
  + SPP\_MOUNT\_TYPE Variable
    - Default value is Virtual (iLO URL Media), if user provides USB or DVD then providing HTTP\_IMAGE\_PATH is not required and user can remove this variable.
    - Similarly is user is providing HTTP\_IMAGE\_PATH and SPP\_MOUNT\_TYPE as USB then script will take USB media for SPP install.
    - In case you have provided HTTP\_IMAGE\_PATH, you can remove SPP\_MOUNT\_TYPE from command line as default value for this variable is Virtual media.
  + Each script copies all SUM logs to temp folder (present under %temp%) before running third deploy preview report. This is done to avoid overwriting of logs. In PIV script will check logs present in temp folder only.
  + Each script perform dependency check while running HPSUM\SUM. It omits the component which is showing dependency and continue with install. However for script which install SPP two times, if script find any dependency second time it will report failure.
  + HPSUM\SUM doesn’t generate ‘HPSUM\SUMInstall\_Details.xml’ in scenarios when system is already up to date and installation is invoked using CLI parameters, hence warning for that is expected in this scenario.
  + RG, CIRRUS, WEB SERVER and SUT needs to be in same network.
  + While using pybot options if user want script to use default value for any of the variable then that variable must be removed from pybot parameters. Otherwise script will take the value provided by user. In case user left variable as blank then it will be considered as null by script.

# **17. Lin Auto Script**

* Command

|  |  |
| --- | --- |
| Script Name | Command |
| Lin\_auto.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_auto.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variables** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Image location of the SPP source media (must be in HTTP format), while using iLo virtual media |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services should be installed and running. MacAfee should be installed by user.
* Brief Description
  + Initial setup, closing all existing connection and establishing connection to ILO and SUT.
  + Check SUM version based on batch file present in SPP ISO.
  + Kill any existing SUM session and clean all SUM logs.
  + Script will then generate first Deploy preview report and parse it to check if system is already up to date or not. After this it cleans all HPSUM\SUM logs, so system will be fresh before SPP install.
  + After that it will execute HPSUM\SUM for first time.
  + Script will then collect HPSUM\SUM install detail log and check it for any component failures. It will then execute gather logs and collect all HPSUM\SUM logs.
  + In this step script also does a TPM check and dependency check before going for reboot.
  + After reboot script will generate second deploy preview report and execute HPSUM\SUM for second time. It will analyze install details and collect all debugging logs. Script will perform a dependency check before rebooting server.
  + In last step script will generate third deploy preview report and compare it with first report to check everything is installed or not. Before generating third preview report, script will move all HPSUM\SUM\SUM logs into a “temp” folder created under “/tmp” directory.

# **18. Lin Auto Downgrade Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| Lin\_auto\_downgrade.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_auto\_downgrade.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services and MacAfee should be installed by user.
* Brief Description
  + Initial setup, closing all existing connection and establishing connection to ILO and SUT.
  + Check SUM version based on batch file present in SPP ISO.
  + Kill any existing HPSUM\SUM session and clean all HPSUM\SUM logs.
  + Script will then generate first Deploy preview report and parse it to check if system is already up to date or not. After this it cleans all HPSUM\SUM logs, so system will be fresh before SPP install.
  + After that it will execute HPSUM\SUM with downgrade parameter.
  + Post installation script will collect HPSUM\SUM install detail log and check it for any component failures. It will then execute gather logs and collect all HPSUM\SUM logs.
  + In this step script will perform a dependency check before going for reboot.
  + In last step script will generate second deploy preview report and parse it to check everything is installed or not. Before generating second preview report, script will move all HPSUM\SUM logs into a “temp” folder created under “/tmp” directory.

# **19. Lin Auto Force Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| Lin\_auto\_force.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_auto\_force.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services and MacAfee should be installed by user.
* Brief Description
  + Initial setup, closing all existing connection and establishing connection to ILO and SUT.
  + Check SUM version based on batch file present in SPP ISO.
  + Kill any existing HPSUM\SUM session and clean all HPSUM\SUM logs.
  + Script will then generate first Deploy preview report and parse it to check if system is already up to date or not. After this it cleans all HPSUM\SUM logs, so system will be fresh before SPP install.
  + After that it will execute HPSUM\SUM with force parameter.
  + Post installation script will collect HPSUM\SUM install detail log and check it for any component failures. It will then execute gather logs and collect all HPSUM\SUM\SUM logs. Script will then perform a dependency check before going for reboot.
  + In last step script will generate second deploy preview report and parse it to check everything is installed or not. Before generating second preview report, script will move all HPSUM\SUM\SUM logs into a “temp” folder created under “/tmp” directory.

# **20. Lin Auto Force Romonly Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| Lin\_auto\_force\_romonly.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_auto\_force\_romonly.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP and MacAfee should be installed by user.
* Brief Description
  + Initial setup, closing all existing connection and establishing connection to ILO and SUT.
  + Check SUM version based on batch file present in SPP ISO.
  + Kill any existing HPSUM\SUM session and clean all HPSUM\SUM logs.
  + Script will then generate first Deploy preview report and parse it to check if system is already up to date or not. After this it cleans all HPSUM\SUM logs, so system will be fresh before SPP install.
  + After that it will execute HPSUM\SUM with force romonly parameter.
  + Post installation script will collect HPSUM\SUM install detail log and check it for any component failures. It will then execute gather logs and collect all HPSUM\SUM logs. Script will then perform a dependency check before going for reboot.
  + In last step script will generate second deploy preview report and parse it to check everything is installed or not. Before generating second preview report, script will move all HPSUM\SUM\SUM logs into a “temp” folder created under “/tmp” directory.

# **21. Lin Auto Rewrite Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| lin\_auto\_rewrite.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_auto\_rewrite.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on OS.
  + SNMP services and MacAfee should be installed by user.
* Brief Description
  + Initial setup, closing all existing connection and establishing connection to ILO and SUT.
  + Check SUM version based on batch file present in SPP ISO.
  + Kill any existing HPSUM\SUM session and clean all HPSUM\SUM logs.
  + Script will then generate first Deploy preview report and parse it to check if system is already up to date or not. After this it cleans all HPSUM\SUM logs, so system will be fresh before SPP install.
  + After that it will execute HPSUM\SUM with rewrite parameter.
  + Post installation script will collect HPSUM\SUM install detail log and check it for any component failures. It will then execute gather logs and collect all HPSUM\SUM logs. Script will then perform a dependency check before going for reboot.
  + In last step script will generate second deploy preview report and parse it to check everything is installed or not. Before generating second preview report, script will move all HPSUM\SUM\SUM logs into a “temp” folder created under “/tmp” directory.

# **22. Lin Guided Script**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| lin\_guided.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_guided.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firefox\Chrome should be installed on RG server
  + Firewall should be disabled on OS.
  + SNMP services and MacAfee should be installed by user.
* Brief Description
  + Initial setup, closing all existing connection and establishing connection to ILO and SUT.
  + Check SUM version based on batch file present in SPP ISO.
  + Kill any existing HPSUM\SUM session and clean all HPSUM\SUM logs.
  + Script will then generate first Deploy preview report and parse it to check if system is already up to date or not. After this it cleans all HPSUM\SUM logs, so system will be fresh before SPP install.
  + After that it will execute HPSUM\SUM for first time.
  + Script will then collect HPSUM\SUM install detail log and check it for any component failures. It will then execute gather logs and collect all HPSUM\SUM logs. Script also does a dependency check before going for reboot.
  + After reboot script will generate second deploy preview report and execute HPSUM\SUM for second time. It will analyze install details and collect all debugging logs. Script will perform a dependency check before rebooting server.
  + In last step script will generate third deploy preview report and compare it with first report to check everything is installed or not. Before generating third preview report, script will move all HPSUM\SUM\SUM logs into a “temp” folder created under “/tmp” directory.
* Note
  + HPSUM\SUM will launch in GUI mode. On SUT only HPSUM\SUM service will start and rest of the session will be accessed on RG.
  + Script will use HPSUM\SUM GUI for server reboot.
  + While executing HPSUM\SUM first time if no components are found for installation, script will throw a warning and exit.

# **23. Linux Post Install Verification**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| win\_piv.txt | pybot -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> win\_piv.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |

* Prerequisites
  + Firefox\chrome should be installed on RG server
  + Firewall should be disabled on OS.
  + SPP installation should be done through automation script only.
* Brief Description
  + Open connection to SUT.
  + Execute command for SNMP agent configuration.
  + Script will verify if all required services are running or not.
  + Script will check if all required HPSUM\SUM log files are present or not. If log is not present or size of log is 0 then it will report the same.
  + Script will check permissions of HPSUM\SUM logs.
  + Script will read HPSUM\SUM detail log and if any information related to component number, name and return code is missing. It will report the same.
  + Script will enable HP SSA service and start SMH verification. While doing SMH verification script will take snapshot of all the pages.

# **24. Linux Post Install Verification for VMware**

* Command

|  |  |
| --- | --- |
| Script Name |  |
| lin\_piv\_remote\_vmware.txt | pybot -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v IMAGE\_LOCATION:<Image-Location> -v REMOTE\_NODE\_IP:<Remote-IP> -v REMOTE\_USERNAME:<Remote-Username> -v REMOTE\_PASSWORD:<Remote-Password> lin\_piv\_remote\_vmware.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| REMOTE\_NODE\_IP | Required | System IP address of the target |
| REMOTE\_NODE\_USERNAME | Required | System username of the target; default \_Administrator\_ |
| REMOTE\_NODE\_PASSWORD | Required | System password of the target; default \_Compaq123\_ |

* Prerequisites
  + Firewall should be disabled on both Linux and VMware OS.
  + SPP installation should be done through automation script only.
* Brief Description
  + Script will check if all required HPSUM\SUM logs are present or not.
  + It will report if any log has 0 size.
  + Script will read HPSUM\SUM detail log and if any information related to component number, name and return code is missing. It will report the same.
  + All the above steps will be executed on Host i.e. Linux in this case.

# **25. Linux Remote Install**

* Command
  + **Linux to VMware**
  + **Linux to Linux**

|  |  |
| --- | --- |
| Script Name |  |
| win\_remote.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v REMOTE\_NODE\_IP:<Remote-Node-IP> -v REMOTE\_NODE\_USERNAME:<Remote-Node-Username> -v REMOTE\_NODE\_PASSWORD:<Remote-Node-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> win\_remote.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| REMOTE\_NODE\_IP | Required | System IP address of the target |
| REMOTE\_NODE\_USERNAME | Required | System username of the target; default \_Administrator\_ |
| REMOTE\_NODE\_PASSWORD | Required | System password of the target; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| SPP\_MOUNT\_TYPE | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Linux and VMware OS.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be checked on both host and target.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting remote server.
  + After reboot script will generate second deploy preview report and execute HPSUM\SUM for second time. It will reboot remote server again after log collection.
  + In last step script will generate third deploy preview report and compare it with first report to check everything is installed or not.
  + All HPSUM\SUM related steps will be executed from Linux host.
  + In case of VMware target script will generate second deploy preview report, however it will not install SPP since only Firmware are getting installed. Hence script will compare both deploy preview report in this step only.

# **26. Linux Remote Force Install**

* Command
  + **Linux to VMware**
  + **Linux to Linux**

|  |  |
| --- | --- |
| Script Name |  |
| lin\_remote\_force.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v REMOTE\_NODE\_IP:<Remote-Node-IP> -v REMOTE\_NODE\_USERNAME:<Remote-Node-Username> -v REMOTE\_NODE\_PASSWORD:<Remote-Node-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_remote\_force.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| REMOTE\_NODE\_IP | Required | System IP address of the target |
| REMOTE\_NODE\_USERNAME | Required | System username of the target; default \_Administrator\_ |
| REMOTE\_NODE\_PASSWORD | Required | System password of the target; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| SPP\_MOUNT\_TYPE | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Linux and VMware OS.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be checked on both host and target.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before rebooting remote server. Script will use force parameter for SPP installation.
  + After reboot script will generate second deploy preview report and compare it with first preview report to make sure all components installed successfully or not.

# **27. Linux Remote OA Install**

* Command
  + **Linux to OA**

|  |  |
| --- | --- |
| Script Name |  |
| lin\_remote\_oa.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v OA\_IP:<OA\_IP> -v OA\_USERNAME:<OA\_Username> -v OA\_PASSWORD:<OA\_Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_remote\_oa.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **OA\_IP** | Required | IP address of the target (OA). |
| **OA\_USERNAME** | Required | OA username of the target; default \_Administrator\_ |
| **OA\_PASSWORD** | Required | OA password of the target; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on Linux.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be performed on Windows host.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs. Script will use CLI parameter for flashing OA as target.
  + After that script will generate second deploy preview report and compare it with first preview report to make sure all components installed successfully or not.

# **28. Linux Remote OA Downgrade Install**

* Command
  + **Linux to OA**

|  |  |
| --- | --- |
| Script Name |  |
| lin\_remote\_oa\_downgrade.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v REMOTE\_NODE\_IP:<Remote-Node-IP> -v REMOTE\_NODE\_USERNAME:<Remote-Node-Username> -v REMOTE\_NODE\_PASSWORD:<Remote-Node-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_remote\_oa\_downgrade.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **OA\_IP** | Required | IP address of the target (OA). |
| **OA\_USERNAME** | Required | OA username of the target; default \_Administrator\_ |
| **OA\_PASSWORD** | Required | OA password of the target; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on Linux.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be performed on Windows host.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs. Script will use CLI parameter for flashing OA as target.
  + After that script will generate second deploy preview report and compare it with first preview report to make sure all components installed successfully or not.

# **29. Linux Remote VC Install**

* Command
  + **Linux to VC**

|  |  |
| --- | --- |
| Script Name |  |
| lin\_remote\_vc.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v OA\_USERNAME:<OA\_Username> -v OA\_PASSWORD:<OA\_Password> -v VC\_PRIMARY\_IP:<vc\_primary\_ip> -v VC\_SECONDARY\_IP:<vc\_secondary\_ip> -v VC\_USERNAME:<VC\_username> -v VC\_PASSWORD:<VC\_password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_remote\_vc.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| **OA\_USERNAME** | Required | OA username of the target; default \_Administrator\_ |
| **OA\_PASSWORD** | Required | OA password of the target; default \_Compaq123\_ |
| **VC\_PRIMARY\_IP** | Required | Primary IP address of the target (VC) |
| **VC\_SECONDARY\_IP** | Required | Secondary IP address of the target (VC |
| **VC\_USERNAME** | Required | Username of the target VC; default \_Administrator\_ |
| **VC\_PASSWORD** | Required | Password of the target UV; default \_Compaq123\_ |
| **HTTP\_IMAGE\_PATH** | Optional | Required while using Virtual media. Image location of the SPP source media must be in HTTP format. |
| **SPP\_MOUNT\_TYPE** | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on Linux.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. This will be performed on Windows host.
  + Script will then generate first Deploy preview report, after that it will execute HPSUM\SUM first time and will collect all HPSUM\SUM logs before. Script will use CLI parameter for flashing VC as target.
  + After that script will generate second deploy preview report and compare it with first preview report to make sure all components installed successfully or not.

# **30. Linux Input file Install**

* Command
  + **Linux Input File parameters**

|  |  |
| --- | --- |
| Script Name |  |
| lin\_inputfile.txt | pybot -v ILO\_IP:<iLO-IP> -v ILO\_USERNAME:<iLO-Username> -v ILO\_PASSWORD:<iLO-Password> -v SYSTEM\_IP:<System-IP> -v SYSTEM\_USERNAME:<System-Username> -v SYSTEM\_PASSWORD:<System-Password> -v HTTP\_IMAGE\_PATH:<SPP-Image-Location> -v SPP\_MOUNT\_TYPE:<Mount-Type> lin\_inputfile.txt |

* Variables

|  |  |  |
| --- | --- | --- |
| **Variable** | **Need** | **Description** |
| **ILO\_IP** | Required | iLO IP address of the SUT |
| **ILO\_USERNAME** | Required | iLO username of the SUT; default \_Administrator\_ |
| **ILO\_PASSWORD** | Required | iLO password of the SUT; default \_Compaq123\_ |
| **SYSTEM\_IP** | Required | System IP address of the SUT |
| **SYSTEM\_USERNAME** | Required | System username of the SUT; default \_Administrator\_ |
| **SYSTEM\_PASSWORD** | Required | System password of the SUT; default \_Compaq123\_ |
| HTTP\_IMAGE\_PATH | Required | Image location of the SPP source media (must be in HTTP format) |
| SPP\_MOUNT\_TYPE | Optional | Virtual, DVD, USB; default \_Virtual\_ |

* Prerequisites
  + Firewall should be disabled on both Linux.
* Brief Description
  + Clean up and server set up – Clean all HPSUM\SUM logs, Kill any existing HPSUM\SUM session, Disconnect any image mounted on ILO. Check for HPSUM\SUM Version.
  + Script will then update the input file present in \dev\spp\tools\input\_files directory with the current system username and password and then copy those to the SUT.
  + Script will start test cases in the order mentioned below :

1. HPSUM\SUM Software Only with Force Bundle
2. HPSUM\SUM Force Software
3. HPSUM\SUM Downgrade
4. HPSUM\SUM Rom Only
5. HPSUM\SUM Force Rom with AMS
6. HPSUM\SUM Force All
7. HPSUM\SUM Rewrite
8. HPSUM\SUM Reports
9. HPSUM\SUM Component List
10. HPSUM\SUM Dry Run with Reboot
    * For each test case, the script will clean old logs, run HPSUM\SUM with the specified input file, collect logs and reboot the SUT (For scenarios where HPSUM\SUM is reboot the SUT the script will check if the server is rebooted or not).

# **31. Generic Pointer for Linux Scripts**

* + Linux OS should have firewall disabled and SSH enabled for scripts to work successfully.
  + Each script copies all HPSUM\SUM logs to temp folder (present under “/tmp”) before running third deploy preview report. This is done to avoid overwriting of logs. In PIV script we will check logs present in temp folder only.
  + Each script perform dependency check while running HPSUM\SUM. It omits the component which is showing dependency and continue with install. However for script which install SPP two times, if script find any dependency second time it will report failure.
  + HPSUM\SUM doesn’t generate ‘HPSUM\SUMInstall\_Details.xml’ when system is up to date and install is invoked by CLI parameter, hence warning for that is expected in this scenario.
  + RG, CIRRUS, WEB SERVER and SUT needs to be in same network.
  + While using pybot options if user want script to use default value for any of the variable then that variable must be removed from pybot parameters. Otherwise script will take the value provided by user. In case user left variable as blank then it will be considered as null by script.

# **32. Troubleshooting**

* While running any job through Cirrus if job fails due to any of the reason mentioned below.
  + Hardware details are not up to date in database
  + User forgot to pull latest code on RG.

Then, in these cases don’t resubmit the job as it will take the old data only. Instead submit a fresh job.

* If your SUT has RHEL OS, make sure
  + Disable Firewall using below command. Works on RHEL 7 and above.

“systemctl disable firewalld”

* + In network connection, connect always\automatically should be selected before starting script.

While doing OS install through L2ADD above steps will be taken care by L2ADD.

* If you update Environment variables on RG server make sure of rebooting it, only then it will reflect in Cirrus.
* Script will fail in case RG is not logged in.
* Script will fail in case user has taken Remote Desktop to SUT while script is running.
* While running remote script, host should not be used for multiple jobs at the same time.
* Below error will be observed if System and ILO IP are incorrect.

“Errno 11004] getaddrinfo failed Also teardown failed: Several failures occurred: 1) gaierror: [Errno 11004] getaddrinfo failed 2) Connection not open 3) AttributeError: 'NoneType' object has no attribute 'split' 4) gaierror: [Errno 11004] getaddrinfo failed 5) Connection not open 6) Connection not open 7) Connection not open 8) No started commands to read output from. 9) Connection not open 10) No started commands to read output from. 11) Variable '${LOG\_PATH}' not found”

* iLO version 3 and earlier (Gen 7 and previous) require image URLs to contain 79 characters or less