Nokia Firewall IPSO and Checkpoint R65 HFA30 Install Checklist

This check list assumes you already know how to access the firewalls Via Voyager (SSL Putty Tunnel), SSH, and SCP. You have access to latest Checkpoint and IPSO Software and patches. And that you have access to Checkpoint P-1 MDS.

## Install R65 with HFA30

**Pre-Upgrade Check List**

This check list assumes you already know how to access the firewalls Via Voyager, SSH, SCP, and FTP and have already installed IPSO.

1. Log onto firewalls Via Voyager and record the following
   1. Print out Configuration Summary
   2. Create backup of system (use host name to name backup file, select all the bullets to backup everything.)
      1. In Voyager
         1. Click the config menu
         2. Then under the heading “system configuration” Select backup and restore
         3. Select all bullets for backup options
         4. Type in the name of the backup file (Copy and paste the firewall name into the field). The system will automatically add a date stamp to the file name.
         5. Apply the changes wait for backup to complete before continuing.
2. Log onto firewalls Via SSH command line and record the following:
   1. Active interfaces: Run “ifconfig –a”
   2. Date/Time on each firewall: Run “date”
   3. Licenses: Run “fw printlic”
   4. Installed policy: Run “fw stat”
   5. Check sync connections: Run “fw tab –t connections –s”
   6. Goto ICLID, run “iclid”.
   7. Run a “show vrrp” (This is only valid if the firewall is running VRRP for Fail-over).
      1. ensure Coldstart Delay is set (120 is required value)
      2. Ensure the number of interfaces configured equals the number of interfaces in either Master or Backup state

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**Installation/Upgrade Procedure**

(Estimated time to complete: About 1 hour)

1. Download files from vendor sites and copy to the firewall or locate them on the land share in “\FW - Checkpoint\R65.”
   1. Files needed to upgrade to NG R65
      1. ipso-4.2b88.tgz (IPSO 4.2.88) – Nokia IPSO Image file. [www.nokia.com](http://www.nokia.com/)
      2. IPSO\_wrapper\_R65.tgz– Checkpoint Image file for R65. [www.checkpoint.com](http://www.checkpoint.com/)
      3. VPN-1\_R65\_HFA\_30.ipso.tgz– Checkpoint hotfix for R65P\_02. [www.checkpoint.com](http://www.checkpoint.com/)
   2. Copy required files to the Firewall. Make directory if required.
      1. FTP or SCP IPSO image to “var/admin/IPSO/”.
      2. FTP or SCP Checkpoint code to “var/admin/R65/”.
      3. FTP or SCP Checkpoint hotfix code to “/var/admin/R65/”.
2. From firewall console:
   1. Install new IPSO image. (Skip This Step If you are just installing checkpoint)
      1. SSH into the firewall form the EMC. Install the new IPSO image by typing “newimage –i
      2. Type “y” for yes to continue.
      3. Choose option 4.
      4. Type in the path to the ipso image should be /var/admin/IPSO/
      5. Select ipso.tgz
      6. Select option 2 ‘newly installed image’
      7. Reboot the firewall.
      8. If checkpoint R65 is already installed you will need re-enable checkpoint. This can be done via voyager. (Skip This Step If you are doing a fresh install of checkpoint). (these commands are unverified for R65)
         1. Log into Voyager..
         2. Select “Config”.
         3. Select “Manage installed Packages”.
         4. Select the “YES” Bullet for Check Point **SVN** Foundation NG with Application Intelligence (R55) for IPSO 3.8 (Mon Mar 8 15:54:37 IST 2004 Build 541000577).
         5. Select “Apply”
         6. Select the “YES” Check Point **CPinfo** NG with Application Intelligence (R55) for IPSO 3.8 (Sun Nov 30 17:35:10 IST 2003 Build 541000522)
         7. Select “Apply”
         8. Select the “YES” Check Point **VPN-1** NG with Application Intelligence (R55) for IPSO 3.8 (Sun May 2 22:37:33 IDT 2004 Build 541000584)
         9. Select “Apply”
         10. Select “Save” and Reboot the firewall
      9. After reboot login and go to ICLID run “iclid”, then run “sho ver” to ensure that the proper version is listed. (Ipsrd version ipsrd-IPSO-4.2-BUILD088-07.17.2008-12:39:22)
3. Install new CheckPoint Image. (Skip this step If Checkpoint is already R65 or if you are applying a hotfix for R65)
   * 1. Run “newpkg” from the command line.
     2. Choose option 4 for NEW install or Option 2 for Upgrade.
     3. Specify the directory to the Checkpoint code. Should be “/var/admin/R65/”
     4. Package Description: Check Point Suite wrapper package NGX R65Reboot should come up. Select 1 or 2 if you are doing a fresh install or an upgrade.
     5. Stop and Validate new package if chose to upgrade only, Continue to next step if you are doing a fresh install.
     6. Configure the hostname through voyager to refer to the IP of the box if not already present.
     7. After reboot run “cpconfig”
     8. ‘CTRL-C’ out of licenses agreement
     9. Choose option 1 (Check Point Power) {you might need to hit enter twice here}
     10. Choose option 2 (Distributed Install)
     11. Choose option 1 (VPN-1 Pro Gateway)
     12. Answer “No” to is this a dynamically assigned IP address gateway installation
     13. Answer ‘Yes’ to install clustering product.
     14. Answer ‘No’ to add a new licenses (this will be done later)
     15. Hit Return when asked to Please specify group name.
     16. Confirm this with Yes
     17. Type in random keygen by pressing random keys until the install says “Thank You”
     18. Put in new sync password. WRITE THIS DOWN, Will be used later to establish connectivity to the SmartCenter Server.
     19. Reboot
     20. Through SmartDashboard GUI, re-establish SIC using the password created earlier
         1. NOTE: If this does not work. Physically log into the firewall from the console and run ‘fw unloadlocal’
     21. From within the properties of the gateway cluster change version to “NG with application intelligence” on corresponding firewall object.
     22. On the interfaces tab of the gateway cluster object perform a ‘Get interfaces’ and verify all interfaces are listed.
     23. Save your changes
     24. Open SmartUpdate and detach the current valid license from the corresponding firewall.
     25. Re-attach the license to the firewall..
     26. Re-push your firewall rules.
4. Install the Hotfix
   1. Go to /var/admin/R65/ and unzip the hotfix. Run “tar –xvzf the hotfix file “tar -xvzf VPN-1\_R65\_HFA\_30.ipso.tgz”
   2. Execute hotfix. Run “./UnixInstallScript” from the /var/admin/R65/ directory.
   3. Enter “Y” to condinue and install HFA R65\_30
   4. Reboot after successful install of the hotfix. Run “sync; sync; reboot”.
   5. Verify hotfix by checking install. Run
      1. “fw ver” (This is Check Point VPN-1(TM) & FireWall-1(R) NGX (R65) HFA\_30, Hotfix 630 - Build 058).
      2. “fw ver –k”. (This is Check Point VPN-1(TM) & FireWall-1(R) NGX (R65) HFA\_30, Hotfix 630 - Build 058 kernel: NGX (R65) HFA\_30, Hotfix 630 - Build 058).
   6. Re-push firewall policies to upgraded firewall(s).
   7. Check that the firewall service is set to start on reboot. Run “cpconfig”
      1. Select option 9.
      2. Verify that VPN-1 & FireWall-1 module will start automatically at boot time.
   8. Verify everything is functioning properly by checking VRRP, fw stat, system status, tcpdump, firewall logs, etc.
5. Post Install Steps for New CP/Ipso installation
   1. Complete New Device Checklist located under Processes and Procedures on the Firewall Sharepoint.