



Hewlett Packard
Enterprise

HPE Security ArcSight High Availability Module

Software Version: 6.8c

Upgrade HA Environment on ESM 6.8c to RHEL 6.8 or CentOS 6.8

September 29, 2016

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Support

Contact Information

Phone	A list of phone numbers is available on the HPE Security ArcSight Technical Support Page: https://softwaresupport.hp.com/documents/10180/14684/esp-support-contact-list
Support Web Site	https://softwaresupport.hp.com
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Upgrade Procedure

This document provides information on how to upgrade ESM 6.8c with the High Availability module (HA) as implemented on:

- RHEL6.5 to support RHEL6.8
- CentOS 6.5 to support CentOS 6.8

The starting state (before upgrade) is assumed to be:

- ESM 6.8c with or without any patches
- HA implemented on the primary and secondary servers
- RHEL 6.5, 6.6, or 6.7
- CentOS 6.5 or 6.7

To perform the upgrade:

1. Run the following `chkconfig` command as user *root* on both servers before you start the upgrade:

```
chkconfig drbd off
```

To verify, run:

```
chkconfig --list drbd
```

```
drbd 0:off 1:off 2:off 3:off 4:off 5:off 6:off
```

This setting should persist.

2. Run the following command as user *root* on the secondary server to put it on standby:
`crm_standby -v true`
3. Run the following command as user *root* on the secondary server to take it offline:
`service heartbeat stop`

4. On the secondary server:

- a. Have yum configured to upgrade to the new operating system.
- b. Add an exclude statement for the following packages to your CentOS/RHEL 6 base repo configuration (/etc/yum.repos.d/CentOS-Base.repo), under the updates section. It should look something like this for CentOS:

```
[updates]
name=CentOS-$releasever - Updates
mirrorlist=http://mirrorlist.centos.org/?release=$releasever&arch=$basearch&repo=updates
#baseurl=http://mirror.centos.org/centos/$releasever/updates/$basearch/
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6
exclude=heartbeat* corosync* pacemaker* drbd* resource-agents cluster-glue*
```

It should look something like this for RHEL:

```
[updates]
name=RHEL-$releasever - Updates
mirrorlist=http://mirrorlist.rhel.org/?release=$releasever&arch=$basearch&repo=updates
#baseurl=http://mirror.rhel.org/rhel/$releasever/updates/$basearch/
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-RHEL-6
exclude=heartbeat* corosync* pacemaker* drbd* resource-agents cluster-glue*
```

- c. Upgrade the operating system to CentOS 6.8 or RHEL 6.8.
- d. Make sure the operating system version is upgraded correctly.
- e. Download the HA Upgrade from the HP Software Support Online site (<http://softwaresupport.hpe.com>). The file name is HA_1.0_Update_For_6.80S.tgz
Be sure to verify the upgrade file. HPE provides a digital public key to enable you to verify that the signed software you received is indeed from HPE and has not been manipulated in any way by a third party. Visit the following site for information and instructions:
<https://h20392.www2.hpe.com/portal/swdepot/displayProductInfo.do?productNumber=HPLinuxCodeSigning>
- f. Copy the HA upgrade to the server.
- g. Install the HA upgrade using these commands:

```
tar -xzf <filename>.tgz
cd <filename>
yum -y update *.rpm
```

5. Run the following command as user *root* on the secondary server to bring it online:
`service heartbeat start`
6. Repeat steps 3 through 5 on the primary server. It is expected that ESM will go down while the primary server is updating.
7. Run the following command as user *root* on the secondary server to take it off standby:
`crm_standby -D`
8. Run the following command as user *root*, (on either server) to check the HA installation, as described in the HA Users Guide, in the "Verify HA Installation" section:
`/usr/lib/arcsight/highavail/bin/arcsight_cluster status`

Note: If, after the upgrade, the disks will not connect, run `arcsight_cluster diagnose` to clear the problem.

9. HPE recommends that you to upgrade your ESM installation to the latest patch. Copy that patch to the primary server and install it as directed in the patch release notes.

Note: If you are planning to eventually upgrade to ESM 6.9.1 (with or without patches), review the HPE ArcSight ESM Support Matrix for the supported ESM upgrade paths and supported versions of operating systems.

Route Metric Size Issue:

If the route metric for the route associated with the Service-IP interface is larger than that of the default route this may cause pacemaker problems determining the netmask. One of the symptoms of this problem is pairs of messages in `/var/log/messages`:

```
'....: info: RA output: (Service-IP:start:stderr) ERROR: Cannot use default
route w/o netmask...'
'...: ERROR: [/usr/lib64/heartbeat/findif -C] failed...'
```

If these messages appear, run the following steps on the primary and secondary servers:

1. Run this command:
`ip route`
Results should be several lines including some similar to the following (in this example, the Host IP address is 12.34.156.78).
`default via xxx.xxx.xxx.xxx dev ens32 proto static metric 100`
`12.34.128.0/19 dev ens32 proto kernel scope link src 12.34.156.78 metric 1000`
2. Identify the Network ID and metric specified for:
 - a. Default
 - b. Host IP (this line should include the Host IP)
3. If the metric is larger for the Host IP route than for the default route, run the following commands as user *root*:
`ip route replace <CIDR and interface> metric <default route metric>`

```
ip route delete <CIDR and interface> metric <host route metric>
```

In the example, these commands would be:

```
ip route replace 12.34.128.0/19 dev ens32 metric 100
```

```
ip route delete 12.34.128.0/19 dev ens32 metric 1000
```

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