

Hypercheck : Hyperflex健康&升级前检查工具

目录

[简介](#)

[支持的HX系统](#)

[什么时候使用](#)

[如何使用](#)

[分析输出的工具-以下步骤](#)

[CLI命令](#)

简介

本文描述进程运行Hypercheck健康&升级前工具。此工具是执行在hyperflex系统的积极的自检的工具保证其稳定性和弹性。在hyperflex升级和维护操作期间，它帮助自动化健康列表和在hyperflex系统的升级前检查节省时间。

NOTE: 总是工具的下载新版本，在您使用它前。因为工具频繁地被提高，使用早版本可以导致错过重要检查。

支持的HX系统

- Hyperflex版本1.8， 2.0， 2.1， 2.5， 2.6， 3.0， 3.5， 4.0
- Hyperflex标准簇
- Hyperflex边缘簇(2节点， 3节点& 4节点)
- 只支持在VMWare ESXi的Hyperflex簇

什么时候使用

- 在Hyperflex升级前。
- Hyperflex在维护Windows前后的健康检查
- 识别发生故障的驱动器/磁盘。
- 当与Cisco TAC一起使用时
- 任何时候积极的健康检查。

如何使用

步骤1.从Cisco github devnet的下载Hyperflex-Hypercheck.zip认为得[这里](#)。请获得将有最新的改进和更新的新副本。

注意：请使用从Cisco github devnet帐户下载的仅脚本。

步骤2.加载它到存储控制器VM (SCVM)与集群管理IP (CMIP)

请使用您的首选的方法- **scp/sftp/ftp/tftp** -复制Hyperflex-Hypercheck.zip到/tmp目录

MAC :

执行从CLI的SCP (请确认Hyperflex-Hypercheck.zip在同一个文件夹从您运行scp)

```
# scp Hyperflex-Hypercheck.zip root@<scvm-eth0:mgmtip>:/tmp/
```

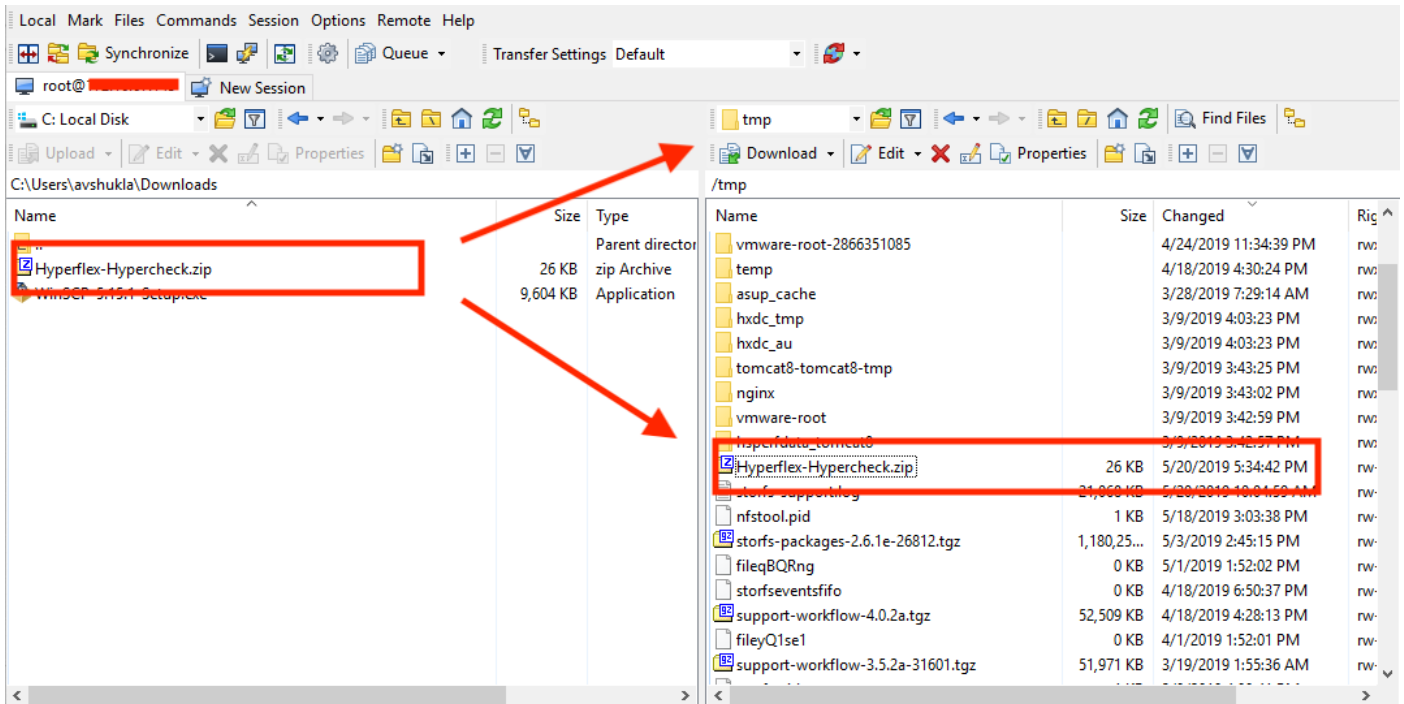
请使用以下识别在您的HX环境[Hyperflex脚本的](#)集群管理IP

```
[AVSHUKLA-M-Q13M:Downloads avshukla$ scp Hyperflex-Hypercheck.zip root@[REDACTED]:/tmp/
HyperFlex StorageController 3.5(2a)
[root@[REDACTED]:~] password:
Hyperflex-Hypercheck.zip
[AVSHUKLA-M-Q13M:Downloads avshukla$
[AVSHUKLA-M-Q13M:Downloads avshukla$
```

100% 26KB 107.4KB/s 00:00

Windows :

我们能使用WINSOCP调用文件如下所示



步骤3.提取Hyperflex-Hypercheck.zip内容

键入`cd /tmp`更改到/tmp目录

```
root@SpringpathController7PVQWP6WV1:~# cd /tmp/
类型解Hyperflex-Hypercheck.zip压缩抽出文件
```

```
root@SpringpathController7PVQWP6WV1:/tmp# unzip Hyperflex-Hypercheck.zip
Archive: Hyperflex-Hypercheck.zip
b61c59f7962b72902692ce70548ba3d760efdf06
  creating: Hyperflex-Hypercheck/
  inflating: Hyperflex-Hypercheck/HXTool.py
  inflating: Hyperflex-Hypercheck/LICENSE.txt
  inflating: Hyperflex-Hypercheck/ReadMe.txt
  inflating: Hyperflex-Hypercheck/TestInfo.txt
  inflating: Hyperflex-Hypercheck/prettytable.py
  inflating: Hyperflex-Hypercheck/progressbar.py
root@SpringpathController7PVQWP6WV1:/tmp#
```

步骤4.执行HXTool Python脚本

键入`cd Hyperflex-Hypercheck`去Hyperflex-Hypercheck目录

```
root@SpringpathControllerABCDE01234:/tmp# cd Hyperflex-Hypercheck
```

键入Python HXTool.py执行脚本

```
root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# python HXTool.py
```

步骤5.输入SCVM根密码，当提示

```
Please enter below info of HX-Cluster:
Enter the HX-Cluster Root Password:
Enter the ESX Root Password:
```

步骤6. Hyperflex-Hypercheck工具开始其检查。将需要大约执行的3-10分钟能根据聚合的节点的编号在簇的完成

步骤7.了解被执行的输出/检查

以下检查由Hyperflex-Hyperchecktool执行

Hyperflex Checks: (Below checks are performed on all the storage controller VMs)

Cluster services check - Verifies the status of storfs, stMgr and stNodeMgr services.

Enospc state check - Checks if the cluster space usage is above the warning threshold or no.

Zookeeper check - Checks whether the Zookeeper is running or no.

Exhibitor check - Verifies the status of the Exhibitor service which manages the ZK.

HDD health check - Reports if you have any blacklisted disk in your cluster.

DNS check - Checks whether DNS is configured and reachable.

vCenter reachability check - Checks whether the vCenter is reachable on the required ports.

Timestamp check - Checks if all the controller VMs have the exact same time.

NTP sync check - Checks whether NTP is reachable from the storage controller VMs and synced.

Check package & versions - Checks for packages and versions on Storage Controller VMs.

Check Iptables count - Checks for Iptables count on and ensure it is same on all Storage Controller VMs.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.

Extra pnodes check - Looks for any extra/duplicate pnode entries in the cluster.

Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.

Out of memory check - Checks through the log files if the cluster had any oom event.

Supported vSphere versions - Shows all the vSphere Versions supported with your current HXDP version.

Network Checks - Checks the connectivity between Mgmt and Storage network.

ESXi Checks: (Below checks are performed on each ESXi node)

HX User Account check - Verifies if the HXUser is created on all the esxi hosts and has admin rights.

vMotion enabled check - Checks if the vMotion network is configured.

vMotion reachability check - Checks the connectivity between vMotion network.

Check for ESXi Failback timer - Check for ESXi Failback timer on ESXi host.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Check the dumpfile in springpathDS - Check to confirm if SpringpathDS is configured for coreDump.

vMotion reachability check is only performed if vMotion enabled check is successful/PASS

步骤8.得到脚本输出的报告

详细的每节点输出在目录安置

目录用命名HX_Report_<date>创建

它位于/tmp/ Hyperflex-Hypercheck目录

键入ls HX_Report_<date>查看Hyperflex-Hypercheck工具创建的文件

Hyperflex Checks: (Below checks are performed on all the storage controller VMs)

Cluster services check - Verifies the status of storfs, stMgr and stNodeMgr services.

Enospc state check - Checks if the cluster space usage is above the warning threshold or no.

Zookeeper check - Checks whether the Zookeeper is running or no.

Exhibitor check - Verifies the status of the Exhibitor service which manages the ZK.
HDD health check - Reports if you have any blacklisted disk in your cluster.
DNS check - Checks whether DNS is configured and reachable.
vCenter reachability check - Checks whether the vCenter is reachable on the required ports.
Timestamp check - Checks if all the controller VMs have the exact same time.
NTP sync check - Checks whether NTP is reachable from the storage controller VMs and synced.
Check package & versions - Checks for packages and versions on Storage Controller VMs.
Check Iptables count - Checks for Iptables count on and ensure it is same on all Storage Controller VMs.
Cluster upgrade check - Checks if there are any previous stale upgrade entries.
Extra pnodes check - Looks for any extra/duplicate pnode entries in the cluster.
Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.
Out of memory check - Checks through the log files if the cluster had any oom event.
Supported vSphere versions - Shows all the vSphere Versions supported with your current HXDP version.
Network Checks - Checks the connectivity between Mgmt and Storage network.

ESXi Checks: (Below checks are performed on each ESXi node)

HX User Account check - Verifies if the HXUser is created on all the esxi hosts and has admin rights.
vMotion enabled check - Checks if the vMotion network is configured.
vMotion reachability check - Checks the connectivity between vMotion network.
Check for ESXi Failback timer - Check for ESXi Failback timer on ESXi host.
Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.
No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.
Check the dumpfile in springpathDS - Check to confirm if SpringpathDS is configured for coredump.

vMotion reachability check is only performed if vMotion enabled check is successful/PASS

类型tar - cvf report.tar放置所有文件的HX_Report_<date>到tarfile

Hyperflex Checks: (Below checks are performed on all the storage controller VMs)

Cluster services check - Verifies the status of storfs, stMgr and stNodeMgr services.
Enospc state check - Checks if the cluster space usage is above the warning threshold or no.
Zookeeper check - Checks whether the Zookeeper is running or no.
Exhibitor check - Verifies the status of the Exhibitor service which manages the ZK.
HDD health check - Reports if you have any blacklisted disk in your cluster.
DNS check - Checks whether DNS is configured and reachable.
vCenter reachability check - Checks whether the vCenter is reachable on the required ports.
Timestamp check - Checks if all the controller VMs have the exact same time.
NTP sync check - Checks whether NTP is reachable from the storage controller VMs and synced.
Check package & versions - Checks for packages and versions on Storage Controller VMs.
Check Iptables count - Checks for Iptables count on and ensure it is same on all Storage Controller VMs.
Cluster upgrade check - Checks if there are any previous stale upgrade entries.
Extra pnodes check - Looks for any extra/duplicate pnode entries in the cluster.
Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more than 80% or no.
Out of memory check - Checks through the log files if the cluster had any oom event.
Supported vSphere versions - Shows all the vSphere Versions supported with your current HXDP version.
Network Checks - Checks the connectivity between Mgmt and Storage network.

ESXi Checks: (Below checks are performed on each ESXi node)

HX User Account check - Verifies if the HXUser is created on all the esxi hosts and has admin rights.
vMotion enabled check - Checks if the vMotion network is configured.
vMotion reachability check - Checks the connectivity between vMotion network.
Check for ESXi Failback timer - Check for ESXi Failback timer on ESXi host.
Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage

network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Check the dumpfile in springpathDS - Check to confirm if SpringpathDS is configured for coredump.

vMotion reachability check is only performed if vMotion enabled check is successful/PASS

确认report.tar文件的类型Is在/tmp/ Hyperflex-Hypercheck目录里被创建

Hyperflex Checks: (Below checks are performed on all the storage controller VMs)

Cluster services check - Verifies the status of storfs, stMgr and stNodeMgr services.

Enospc state check - Checks if the cluster space usage is above the warning threshold or no.

Zookeeper check - Checks whether the Zookeeper is running or no.

Exhibitor check - Verifies the status of the Exhibitor service which manages the ZK.

HDD health check - Reports if you have any blacklisted disk in your cluster.

DNS check - Checks whether DNS is configured and reachable.

vCenter reachability check - Checks whether the vCenter is reachable on the required ports.

Timestamp check - Checks if all the controller VMs have the exact same time.

NTP sync check - Checks whether NTP is reachable from the storage controller VMs and synced.

Check package & versions - Checks for packages and versions on Storage Controller VMs.

Check Iptables count - Checks for Iptables count on and ensure it is same on all Storage Controller VMs.

Cluster upgrade check - Checks if there are any previous stale upgrade entries.

Extra pnodes check - Looks for any extra/duplicate pnode entries in the cluster.

Disk usage(/var/stv) check - Checks if the utilization of /var/stv is more that 80% or no.

Out of memory check - Checks through the log files if the cluster had any oom event.

Supported vSphere versions - Shows all the vSphere Versions supported with your current HXDP version.

Network Checks - Checks the connectivity between Mgmt and Storage network.

ESXi Checks: (Below checks are performed on each ESXI node)

HX User Account check - Verifies if the HXUser is created on all the esxi hosts and has admin rights.

vMotion enabled check - Checks if the vMotion network is configued.

vMotion reachability check - Checks the connectivity between vmotion network.

Check for ESXi Failback timer - Check for ESXi Failback timer on ESXi host.

Check ping to vmk0, eth0, eth1 - Checks the connectivity between the Mgmt and Storage network.

No extra controller vm folders check - Checks if there are any extra controller VM folders in the Springpath datastore.

Check the dumpfile in springpathDS - Check to confirm if SpringpathDS is configured for coredump.

vMotion reachability check is only performed if vMotion enabled check is successful/PASS

步骤9.导出Report.tar并且与TAC共享它(若需要)

请使用您的首选的方法- scp/sftp/ftp/tftp -从SCVM导出report.tar

步骤10.示例从3 NODE簇输出的HXTool。

```
root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# python HXTool.py
```

HX Health Check 3.1

Please enter below info of HX-Cluster: Enter the HX-Cluster Root Password: Enter the ESX Root Password: SSH connection established to HX Node: 10.X.X.79 SSH connection established to HX Node: 10.X.X.80 SSH connection established to HX Node: 10.X.X.81 HX Cluster Nodes: +-----+-----

Nodes	IP Address	HostName
1	10.X.X.79	SpringpathControllerABCD123456

```

-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ | 2 | 10.X.X.80 |
SpringpathControllerABCD123457 | +-----+-----+-----+-----+-----+-----+-----+-----+-----+ | 3
| 10.X.X.81 | SpringpathControllerABCD123458 | +-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+ SSH connection established to ESX Host: 10.X.X.76 SSH connection established to ESX
Host: 10.X.X.75 SSH connection established to ESX Host: 10.X.X.77 HX Controller: 10.X.X.79
Cluster services check [#####] PASS ZooKeeper & Exhibitor check
[#####] PASS HDD health check [#####] PASS Pre-Upgrade
Check [#####] PASS Network check [#####] PASS HX
Controller: 10.X.X.80 Cluster services check [#####] PASS ZooKeeper &
Exhibitor check [#####] PASS HDD health check [#####] PASS
Pre-Upgrade Check [#####] PASS Network check [#####] PASS
HX Controller: 10.X.X.81 Cluster services check [#####] PASS ZooKeeper &
Exhibitor check [#####] PASS HDD health check [#####] PASS
Pre-Upgrade Check [#####] PASS Network check [#####] PASS
HX Controller: 10.X.X.79 Test Summary: +-----+-----+-----+-----+-----+ |
Name | Result | Comments | +-----+-----+-----+-----+-----+-----+ | Cluster
services check | PASS | | +-----+-----+-----+-----+-----+-----+ | Enospc state
check | PASS | | +-----+-----+-----+-----+-----+-----+ | Zookeeper check | PASS
| | +-----+-----+-----+-----+-----+-----+ | Exhibitor check | PASS | | +-----+
-----+-----+-----+ | HDD health check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | DNS check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | vCenter reachability check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | Timestamp check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | NTP sync check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | Check package & versions | PASS | |
+-----+-----+-----+-----+-----+
| Check Iptables count | PASS | |
+-----+-----+-----+-----+-----+ | Cluster upgrade status | PASS | | +-----+
-----+-----+-----+ | Extra pnodes check | PASS | | +-----+-----+-----+
-----+-----+-----+ | Disk usage(/var/stv) check | PASS | | +-----+-----+-----+
-----+-----+-----+
| Memory usage check | PASS | |
+-----+-----+-----+-----+-----+ | Incidence of OOM | PASS | | +-----+-----+
-----+-----+-----+ | Supported vSphere versions | 6.0.0-U3 | | | 6.5.0-
U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1 | | +-----+-----+-----+-----+
-----+-----+-----+ HX Controller: 10.X.X.80 Test Summary: +-----+-----+-----+
-----+-----+ | Name | Result | Comments | +-----+-----+-----+-----+-----+
| Cluster services check | PASS | | +-----+-----+-----+-----+-----+ |
Enospc state check | PASS | | +-----+-----+-----+-----+-----+ | Zookeeper
check | PASS | | +-----+-----+-----+-----+-----+ | Exhibitor check | PASS
| | +-----+-----+-----+-----+-----+ | HDD health check | PASS | | +-----+
-----+-----+-----+ | DNS check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | vCenter reachability check | PASS | | +-----+-----+-----+
-----+-----+-----+ | Timestamp check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | NTP sync check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | Check package & versions | PASS | |
+-----+-----+-----+-----+-----+
| Check Iptables count | PASS | |
+-----+-----+-----+-----+-----+ | Cluster upgrade status | PASS | | +-----+
-----+-----+-----+ | Extra pnodes check | PASS | | +-----+-----+-----+
-----+-----+-----+ | Disk usage(/var/stv) check | PASS | |
+-----+-----+-----+-----+-----+
| Memory usage check | PASS | |
+-----+-----+-----+-----+-----+ | Incidence of OOM | PASS | | +-----+-----+
-----+-----+-----+ | Supported vSphere versions | 6.0.0-U3 | | | 6.5.0-
U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1 | | +-----+-----+-----+-----+
-----+-----+-----+ HX Controller: 10.X.X.81 Test Summary: +-----+-----+-----+
-----+-----+ | Name | Result | Comments | +-----+-----+-----+-----+-----+
| Cluster services check | PASS | | +-----+-----+-----+-----+-----+ |
Enospc state check | PASS | | +-----+-----+-----+-----+-----+ | Zookeeper
check | PASS | | +-----+-----+-----+-----+-----+ | Exhibitor check | PASS
| | +-----+-----+-----+-----+-----+ | HDD health check | PASS | | +-----+
-----+-----+-----+ | DNS check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+ | vCenter reachability check | PASS | | +-----+-----+-----+
-----+-----+-----+

```

```

+-----+-----+ | Timestamp check | PASS | | +-----+-----+
+-----+ | NTP sync check | PASS | | +-----+-----+
| Check package & versions | PASS | |
+-----+-----+
| Check Iptables count | PASS | |
+-----+-----+ | Cluster upgrade status | PASS | | +-----+
+-----+-----+ | Extra pnodes check | PASS | | +-----+
+-----+-----+ | Disk usage(/var/stv) check | PASS | |
+-----+-----+
| Memory usage check | PASS | | +-----+-----+ |
Incidence of OOM | PASS | | +-----+-----+ | Supported
vSphere versions | 6.0.0-U3 | | | 6.5.0-U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1
| | +-----+-----+
##### Network check:
##### ESX vmk0:
10.X.X.75, 10.X.X.76, 10.X.X.77 ESX vmk1: 10.X.X.102, 10.X.X.103, 10.X.X.104 SCVM eth0:
10.X.X.79, 10.X.X.80, 10.X.X.81 SCVM eth1: 10.X.X.98, 10.X.X.99, 10.X.X.100 ESX Host: 10.X.X.76
+-----+-----+
+-----+-----+ | Name | Result | Comments | +-----+
+-----+-----+
---+ | HX User Account check | PASS | | +-----+-----+
+-----+-----+ | vMotion enabled
check | PASS | | +-----+-----+
+-----+-----+
| vMotion reachability check | PASS | |
+-----+-----+
+-----+-----+ | Check for ESXI Failback timer | PASS | | +-----+
+-----+-----+
+-----+-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----+
+-----+-----+
-+ | Check the dump in springpathDS | PASS | | +-----+-----+
+-----+-----+
| No extra controller vm folders check | PASS | |
+-----+-----+
+-----+-----+
ESX Host: 10.X.X.75 +-----+-----+
+-----+-----+ | Name | Result | Comments | +-----+
+-----+-----+
+-----+-----+ | HX User Account check | PASS | | +-----+-----+
+-----+-----+
| vMotion enabled check | PASS | | +-----+-----+
+-----+-----+
| vMotion reachability check | PASS | |
+-----+-----+
+-----+-----+ | Check for ESXI Failback timer | PASS | | +-----+
+-----+-----+
+-----+-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----+
+-----+-----+
-+
| Check the dump in springpathDS | PASS | |
+-----+-----+
+-----+-----+ | No extra controller vm folders check | PASS | | +-----+
+-----+-----+
+-----+-----+ ESX Host: 10.X.X.77 +-----+-----+
+-----+-----+ | Name |
Result | Comments | +-----+-----+
+-----+-----+ | HX User Account check | PASS | | +-----+
+-----+-----+
+-----+-----+ | vMotion enabled check | PASS | | +-----+
+-----+-----+
+-----+-----+
+-----+-----+
+-----+-----+
+-----+-----+ | vMotion reachability check | PASS | |
+-----+-----+
+-----+-----+ | Check for ESXI Failback timer | PASS | | +-----+

```



```

-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| Check the dump in springpathDS | PASS | |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+ | No extra controller vm folders check | PASS | | +-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+
Main Report File: HX_Tool_Main_Report.txt

```

Release Notes:
<https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/products-release-notes-list.html>

Upgrade Guides:
<https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/products-installation-guides-list.html>

Note: Please check the status of Compute nodes manually, script only verifies the config on the converged nodes.

vMotion reachability check is only performed if vMotion enabled check is successful/PASS

分析输出的工具-以下步骤

- 工具自动化运行手工的on命令Hyperflex系统的进程。
- 如果工具运行好并且产生在所有测试的**PASS**。HX系统是有效对于脚本执行了的所有检查。
- 在，在的一些的工具**FAIL**成功检查或不运行的情况下，您能使用CLI命令(如下所示)执行在Hyperflex系统的同样检查象手工完成由脚本。
- 工具不检查其中任一老/新/打开/解决的警告并且是高度推荐的在其中任一前查看Hyperflex版本注释和升级指南升级或维护活动。

注意： 因为脚本没有能运行，请勿开TAC案例。请手工请运行命令，识别问题并且打开SR识别的问题。

CLI命令

在Hyperflex SCVM-

```

root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# python HXTool.py

HX Health Check 3.1
Please enter below info of HX-Cluster: Enter the HX-Cluster Root Password: Enter the ESX Root Password: SSH connection established to HX Node: 10.X.X.79 SSH connection established to HX Node: 10.X.X.80 SSH connection established to HX Node: 10.X.X.81 HX Cluster Nodes: +-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+ | Nodes | IP Address | HostName | +-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+ | 1 | 10.X.X.79 | SpringpathControllerABCD123456 | +-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+ | 2 | 10.X.X.80 |
SpringpathControllerABCD123457 | +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ | 3
| 10.X.X.81 | SpringpathControllerABCD123458 | +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+ SSH connection established to ESX Host: 10.X.X.76 SSH connection established to ESX Host: 10.X.X.75 SSH connection established to ESX Host: 10.X.X.77 HX Controller: 10.X.X.79
Cluster services check [#####] PASS ZooKeeper & Exhibitor check [#####] PASS HDD health check [#####] PASS Pre-Upgrade Check [#####] PASS Network check [#####] PASS HX Controller: 10.X.X.80 Cluster services check [#####] PASS ZooKeeper & Exhibitor check [#####] PASS HDD health check [#####] PASS

```

```

Pre-Upgrade Check [#####] PASS Network check [#####] PASS
HX Controller: 10.X.X.81 Cluster services check [#####] PASS ZooKeeper &
Exhibitor check [#####] PASS HDD health check [#####] PASS
Pre-Upgrade Check [#####] PASS Network check [#####] PASS
HX Controller: 10.X.X.79 Test Summary: +-----+-----+-----+ |
Name | Result | Comments | +-----+-----+-----+ | Cluster
services check | PASS | | +-----+-----+-----+ | Enospc state
check | PASS | | +-----+-----+-----+ | Zookeeper check | PASS
| | +-----+-----+-----+ | Exhibitor check | PASS | | +-----
-----+-----+-----+ | HDD health check | PASS | | +-----
-----+-----+-----+ | DNS check | PASS | | +-----
-----+-----+-----+ | vCenter reachability check | PASS | | +-----
-----+-----+-----+ | Timestamp check | PASS | | +-----
-----+-----+-----+ | NTP sync check | PASS | | +-----
-----+-----+-----+ | Check package & versions | PASS | |
+-----+-----+-----+
| Check Iptables count | PASS | |
+-----+-----+-----+ | Cluster upgrade status | PASS | | +-----
-----+-----+-----+ | Extra pnodes check | PASS | | +-----
-----+-----+-----+ | Disk usage(/var/stv) check | PASS | | +-----
-----+-----+-----+
| Memory usage check | PASS | |
+-----+-----+-----+ | Incidence of OOM | PASS | | +-----
-----+-----+-----+ | Supported vSphere versions | 6.0.0-U3 | | | 6.5.0-
U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1 | | +-----
-----+-----+-----+ HX Controller: 10.X.X.80 Test Summary: +-----
-----+-----+-----+
| Name | Result | Comments | +-----+-----+-----+ +-----+
| Cluster services check | PASS | | +-----+-----+-----+ +-----+
Enospc state check | PASS | | +-----+-----+-----+ +-----+ | Zookeeper
check | PASS | | +-----+-----+-----+ +-----+ | Exhibitor check | PASS
| | +-----+-----+-----+ +-----+ | HDD health check | PASS | | +-----
-----+-----+-----+ | DNS check | PASS | | +-----
-----+-----+-----+ | vCenter reachability check | PASS | | +-----
-----+-----+-----+ | Timestamp check | PASS | | +-----
-----+-----+-----+ | NTP sync check | PASS | | +-----
-----+-----+-----+ | Check package & versions | PASS | |
+-----+-----+-----+
| Check Iptables count | PASS | |
+-----+-----+-----+ | Cluster upgrade status | PASS | | +-----
-----+-----+-----+ | Extra pnodes check | PASS | | +-----
-----+-----+-----+ | Disk usage(/var/stv) check | PASS | |
+-----+-----+-----+
| Memory usage check | PASS | |
+-----+-----+-----+ | Incidence of OOM | PASS | | +-----
-----+-----+-----+ | Supported vSphere versions | 6.0.0-U3 | | | 6.5.0-
U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1 | | +-----
-----+-----+-----+ HX Controller: 10.X.X.81 Test Summary: +-----
-----+-----+-----+
| Name | Result | Comments | +-----+-----+-----+ +-----+
| Cluster services check | PASS | | +-----+-----+-----+ +-----+
Enospc state check | PASS | | +-----+-----+-----+ +-----+ | Zookeeper
check | PASS | | +-----+-----+-----+ +-----+ | Exhibitor check | PASS
| | +-----+-----+-----+ +-----+ | HDD health check | PASS | | +-----
-----+-----+-----+ | DNS check | PASS | | +-----
-----+-----+-----+ | vCenter reachability check | PASS | | +-----
-----+-----+-----+ | Timestamp check | PASS | | +-----
-----+-----+-----+ | NTP sync check | PASS | | +-----
-----+-----+-----+ | Check package & versions | PASS | |
+-----+-----+-----+
| Check Iptables count | PASS | |
+-----+-----+-----+ | Cluster upgrade status | PASS | | +-----
-----+-----+-----+ | Extra pnodes check | PASS | | +-----
-----+-----+-----+ | Disk usage(/var/stv) check | PASS | |
+-----+-----+-----+
| Memory usage check | PASS | | +-----+-----+-----+ +-----+

```

```

Incidence of OOM | PASS | | +-----+-----+-----+-----+-----+-----+ | Supported
vSphere versions | 6.0.0-U3 | | | 6.5.0-U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1
| | +-----+-----+-----+-----+-----+-----+
##### Network check:
##### ESX vmk0:
10.X.X.75, 10.X.X.76, 10.X.X.77 ESX vmk1: 10.X.X.102, 10.X.X.103, 10.X.X.104 SCVM eth0:
10.X.X.79, 10.X.X.80, 10.X.X.81 SCVM eth1: 10.X.X.98, 10.X.X.99, 10.X.X.100 ESX Host: 10.X.X.76
+-----+-----+-----+-----+-----+-----+
-----+ | Name | Result | Comments | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
---+ | HX User Account check | PASS | | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
check | PASS | | +-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
| vMotion reachability check | PASS | |
+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | Check for ESXI Failback timer | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-+ | Check the dump in springpathDS | PASS | | +-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| No extra controller vm folders check | PASS | |
+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
ESX Host: 10.X.X.75 +-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | Name | Result | Comments | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | HX User Account check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
| vMotion enabled check | PASS | | +-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
| vMotion reachability check | PASS | |
+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | Check for ESXI Failback timer | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-+
| Check the dump in springpathDS | PASS | |
+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | No extra controller vm folders check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ ESX Host: 10.X.X.77 +-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | Name |
Result | Comments | +-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | HX User Account check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | vMotion enabled check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
----+
| vMotion reachability check | PASS | |
+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | Check for ESXI Failback timer | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-+
| Check the dump in springpathDS | PASS | |
+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+ | No extra controller vm folders check | PASS | | +-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+
Main Report File: HX_Tool_Main_Report.txt

```

Release Notes:

https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/products-release-notes-list.html

Upgrade Guides:

https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/products-installation-guides-list.html

Note: Please check the status of Compute nodes manually, script only verifies the config on the converged nodes.

***vMotion reachability check is only performed if vMotion enabled check is successful/PASS*
在ESXi系统**

root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# python HXTool.py

HX Health Check 3.1

Please enter below info of HX-Cluster: Enter the HX-Cluster Root Password: Enter the ESX Root Password: SSH connection established to HX Node: 10.X.X.79 SSH connection established to HX Node: 10.X.X.80 SSH connection established to HX Node: 10.X.X.81 HX Cluster Nodes: +-----+-----

Nodes	IP Address	HostName
1	10.X.X.79	SpringpathControllerABCD123456
2	10.X.X.80	SpringpathControllerABCD123457
3	10.X.X.81	SpringpathControllerABCD123458

SpringpathControllerABCD123457 | +-----+-----+-----+-----+ | 3 | 10.X.X.81 | SpringpathControllerABCD123458 | +-----+-----+-----+-----+

-----+ SSH connection established to ESX Host: 10.X.X.76 SSH connection established to ESX Host: 10.X.X.75 SSH connection established to ESX Host: 10.X.X.77 HX Controller: 10.X.X.79

Cluster services check [#####] PASS ZooKeeper & Exhibitor check [#####] PASS HDD health check [#####] PASS Pre-Upgrade Check [#####] PASS Network check [#####] PASS HX Controller: 10.X.X.80 Cluster services check [#####] PASS ZooKeeper & Exhibitor check [#####] PASS HDD health check [#####] PASS Pre-Upgrade Check [#####] PASS Network check [#####] PASS HX Controller: 10.X.X.81 Cluster services check [#####] PASS ZooKeeper & Exhibitor check [#####] PASS HDD health check [#####] PASS Pre-Upgrade Check [#####] PASS Network check [#####] PASS HX Controller: 10.X.X.79 Test Summary: +-----+-----+-----+-----+ |

Name	Result	Comments	Cluster services check	Enospc state check	Zookeeper check	Exhibitor check	HDD health check	DNS check	vCenter reachability check	Timestamp check	NTP sync check	Check package & versions
Cluster services check	PASS				PASS							
Enospc state check	PASS											
Zookeeper check	PASS											
Exhibitor check	PASS											
HDD health check	PASS											
DNS check	PASS											
vCenter reachability check	PASS											
Timestamp check	PASS											
NTP sync check	PASS											
Check package & versions	PASS											

+-----+-----+-----+-----+ | Check Iptables count | PASS | | +-----+-----+-----+-----+ | Cluster upgrade status | PASS | | +-----+-----+-----+-----+ | Extra pnodes check | PASS | | +-----+-----+-----+-----+ | Disk usage(/var/stv) check | PASS | | +-----+-----+-----+-----+

+-----+-----+-----+-----+ | Memory usage check | PASS | | +-----+-----+-----+-----+ | Incidence of OOM | PASS | | +-----+-----+-----+-----+ | Supported vSphere versions | 6.0.0-U3 | | | 6.5.0-U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1 | | +-----+-----+-----+-----+

-----+ HX Controller: 10.X.X.80 Test Summary: +-----+-----+-----+-----+ | Name | Result | Comments | +-----+-----+-----+-----+ | Cluster services check | PASS | | +-----+-----+-----+-----+ | Enospc state check | PASS | | +-----+-----+-----+-----+ | Zookeeper

```

check | PASS | | +-----+-----+-----+-----+ | Exhibitor check | PASS
| | +-----+-----+-----+-----+ | HDD health check | PASS | | +-----
-----+-----+-----+ | DNS check | PASS | | +-----
-----+-----+-----+ | vCenter reachability check | PASS | | +-----
+-----+-----+ | Timestamp check | PASS | | +-----
+-----+ | NTP sync check | PASS | | +-----+-----+
| Check package & versions | PASS | |
+-----+
| Check Iptables count | PASS | |
+-----+-----+-----+-----+ | Cluster upgrade status | PASS | | +-----
-----+-----+-----+ | Extra pnodes check | PASS | | +-----
-----+-----+-----+ | Disk usage(/var/stv) check | PASS | |
+-----+-----+
| Memory usage check | PASS | |
+-----+-----+-----+-----+ | Incidence of OOM | PASS | | +-----
-----+-----+-----+ | Supported vSphere versions | 6.0.0-U3 | | | 6.5.0-
U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1 | | +-----
-----+-----+ HX Controller: 10.X.X.81 Test Summary: +-----
+-----+ | Name | Result | Comments | +-----+-----+
| Cluster services check | PASS | | +-----+-----+-----+ |
Enospc state check | PASS | | +-----+-----+-----+ | Zookeeper
check | PASS | | +-----+-----+-----+ | Exhibitor check | PASS
| | +-----+-----+-----+ | HDD health check | PASS | | +-----
-----+-----+-----+ | DNS check | PASS | | +-----
-----+-----+-----+ | vCenter reachability check | PASS | | +-----
+-----+-----+ | Timestamp check | PASS | | +-----
+-----+ | NTP sync check | PASS | | +-----+-----+
| Check package & versions | PASS | |
+-----+-----+
| Check Iptables count | PASS | |
+-----+-----+-----+-----+ | Cluster upgrade status | PASS | | +-----
-----+-----+-----+ | Extra pnodes check | PASS | | +-----
-----+-----+-----+ | Disk usage(/var/stv) check | PASS | |
+-----+-----+
| Memory usage check | PASS | | +-----+-----+-----+ |
Incidence of OOM | PASS | | +-----+-----+-----+ | Supported
vSphere versions | 6.0.0-U3 | | | 6.5.0-U1 | | | 6.5.0-U2 | | | 6.7.0-UGA | | | 6.7.0-U1
| | +-----+-----+-----+
##### Network check:
##### ESX vmk0:
10.X.X.75, 10.X.X.76, 10.X.X.77 ESX vmk1: 10.X.X.102, 10.X.X.103, 10.X.X.104 SCVM eth0:
10.X.X.79, 10.X.X.80, 10.X.X.81 SCVM eth1: 10.X.X.98, 10.X.X.99, 10.X.X.100 ESX Host: 10.X.X.76
+-----+-----+
-----+ | Name | Result | Comments | +-----
-----+-----+
---+ | HX User Account check | PASS | | +-----+-----+
-----+-----+ | vMotion enabled
check | PASS | | +-----+-----+
+-----+
| vMotion reachability check | PASS | |
+-----+-----+-----+-----+
-----+-----+-----+ | Check for ESXI Failback timer | PASS | | +-----
-----+-----+
-----+-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----
+-----+-----+
-+ | Check the dump in springpathDS | PASS | | +-----+-----+
+-----+
| No extra controller vm folders check | PASS | |
+-----+-----+-----+-----+
-----+
ESX Host: 10.X.X.75 +-----+-----+-----+
-----+-----+-----+ | Name | Result | Comments | +-----
-----+-----+
-----+-----+ | HX User Account check | PASS | | +-----

```

```

-----+
| vMotion enabled check | PASS | | +-----+-----+-----+
-----+
| vMotion reachability check | PASS | |
+-----+-----+-----+
-----+ | Check for ESXI Failback timer | PASS | | +-----+
-----+-----+-----+
-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----+
-----+-----+-----+
-+
| Check the dump in springpathDS | PASS | |
+-----+-----+-----+
-----+ | No extra controller vm folders check | PASS | | +-----+
-----+-----+-----+
-----+ ESX Host: 10.X.X.77 +-----+-----+
-----+-----+-----+ | Name |
Result | Comments | +-----+-----+-----+
-----+-----+-----+ | HX User Account check | PASS | | +-----+
-----+-----+-----+
-----+ | vMotion enabled check | PASS | | +-----+
-----+-----+-----+
-----+
| vMotion reachability check | PASS | |
+-----+-----+-----+
-----+ | Check for ESXI Failback timer | PASS | | +-----+
-----+-----+-----+
-----+ | Check ping to vmk0, eth0, eth1 | PASS | | +-----+
-----+-----+-----+
-+
| Check the dump in springpathDS | PASS | |
+-----+-----+-----+
-----+ | No extra controller vm folders check | PASS | | +-----+
-----+-----+-----+
-----+
Main Report File: HX_Tool_Main_Report.txt

```

Release Notes:

<https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/products-release-notes-list.html>

Upgrade Guides:

<https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/products-installation-guides-list.html>

Note: Please check the status of Compute nodes manually, script only verifies the config on the converged nodes.

vMotion reachability check is only performed if vMotion enabled check is successful/PASS