运行Hyperflex运行状况和升级前检查工具

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简介

本文档介绍运行Hypercheck运行状况和预升级工具的流程。

先决条件

要求

Cisco 建议您了解以下主题：

- Hyperflex

使用的组件

本文档中的信息基于Hypercheck运行状况和升级前工具。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

背景信息

此工具是在Hyperflex系统上执行主动自检查以确保其稳定性和恢复能力的实用程序。它有助于在Hyperflex系统上自动执行运行状况和升级前检查列表，以节省Hyperflex升级和维护操作期间的时间。



注意：在使用之前，请始终下载该工具的最新版本。由于该工具经常增强，因此使用早期版本可能导致丢失重要检查。

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、4.5、5.0、5.5
- Hyperflex标准集群
- Hyperflex扩展集群
- Hyperflex边缘集群（2节点、3节点和4节点）
- 仅在VMWare ESXi的Hyperflex集群上受支持



注意：有关如何在Hyperflex HyperV集群上运行超级检查的信息，请参阅超级检查：Hyperflex运行状况和升级前检查工具 — HyperV。

适用场合

使用Hyperflex运行状况和升级前检查工具的有效时间是：

- 在Hyperflex升级之前
- 维护窗口前后的Hyperflex运行状况检查
- 为了识别发生故障的驱动器/磁盘
- 当您与Cisco TAC合作时
- 随时主动进行运行状况检查

操作方法

HX版本4.5及更高版本

步骤1.使用群集管理IP(CMIP)（您的HX连接IP）启动与存储控制器VM(SCVM)的SSH连接。

步骤2.执行命令hypercheck。

```
admin:~$ hypercheck
```

步骤3.根据提示输入SCVM admin 密码，并输入ESXi的root密码。

```
admin:~$ hypercheck

                  HX Health Check 4.5.0

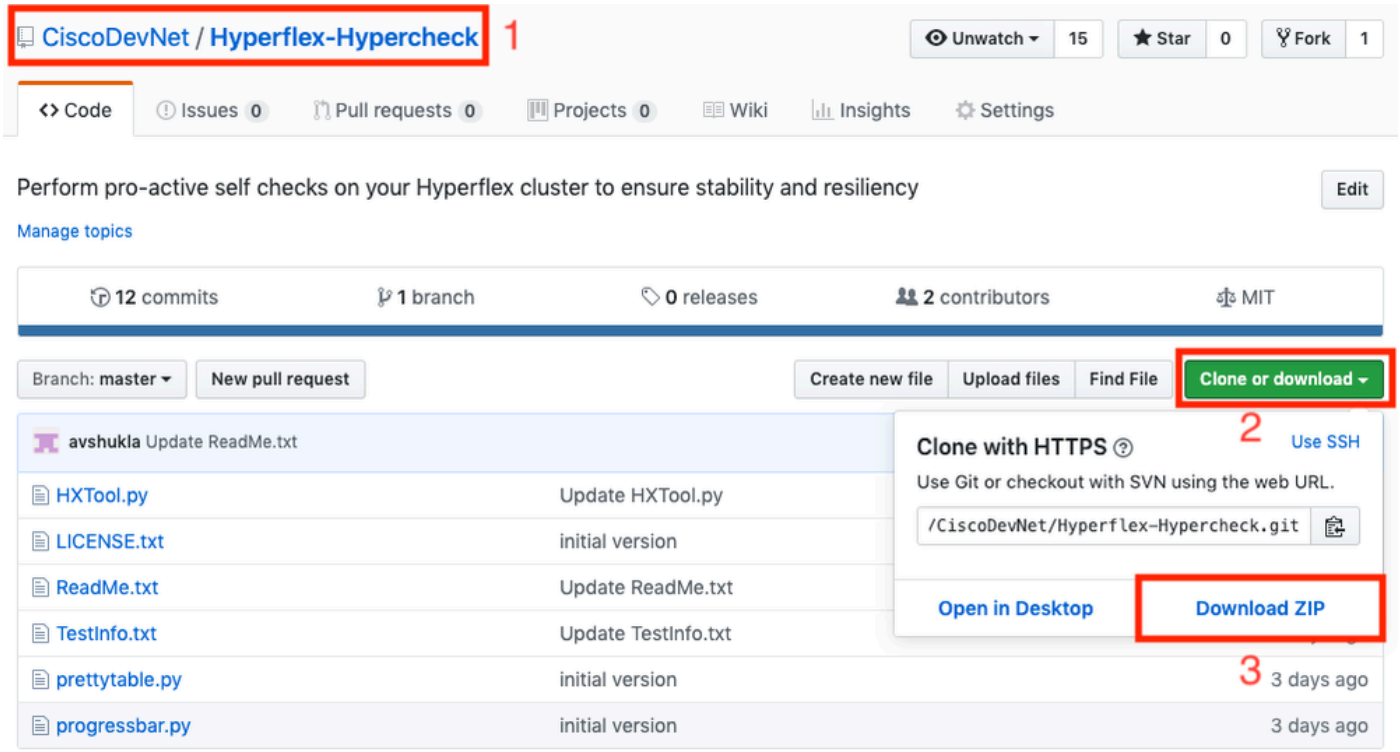
Please enter below info of HX-Cluster:
Enter the HX-Cluster Root Password:
Enter the HX-Cluster Admin Password:
Enter the ESX Root Password:
```

HX版本4.0及更低版本

步骤1.从Cisco Hyperflex-Hypercheck.zip github devnet帐户下载..获取最新改进和更新的最新副本。

注意：只有注册的思科用户才能访问内部思科工具、文件和信息。

注意：仅使用从Cisco github devnet帐户下载的脚本。



步骤2.使用CMIP将其上传到SCVM。

使用您的首选scp/sftp/ftp/tftp方法 — 将复制Hyperflex-Hypercheck.zip到目/tmp录。

对于MAC:

从CLI执行SCP（请确认Hyperflex-Hypercheck.zip位于运行SCP的同一文件夹中）。

 # scp Hyperflex-Hypercheck.zip root@

:/tmp/

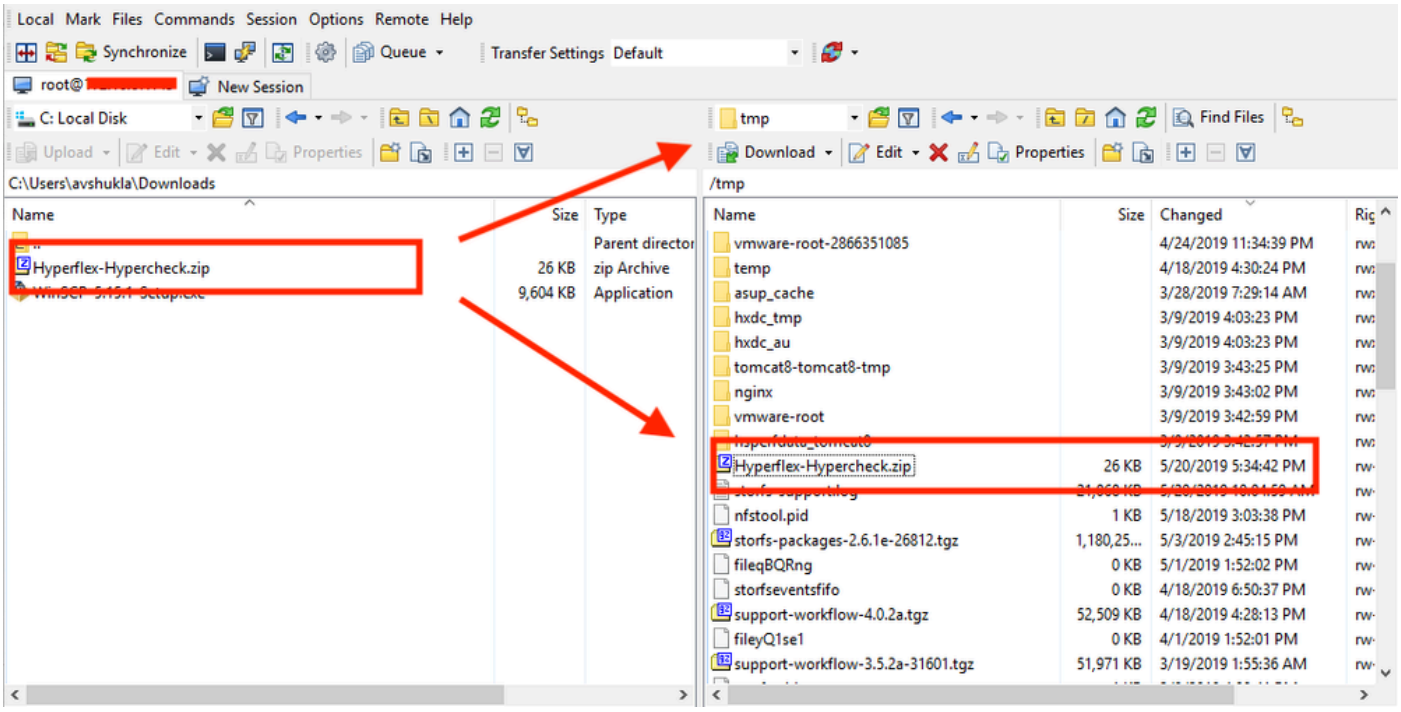
.

使用此命令可确定HX环境中的集群管理IP - Hyperflex手册。

```
AVSHUKLA-M-Q13M:Downloads avshukla$ scp Hyperflex-Hypercheck.zip root@[redacted]:/tmp/
  HyperFlex StorageController 3.5(2a)
root@[redacted]'s password:
Hyperflex-Hypercheck.zip                                      100%   26KB 107.4KB/s   00:00
AVSHUKLA-M-Q13M:Downloads avshukla$
AVSHUKLA-M-Q13M:Downloads avshukla$
```

Windows：

可以使用WINSCP来传输文件，如下所示：



步骤3.提取的内容Hyperflex-Hypercheck.zip。

键cd /tmp入以更改为目/tmp录。

```
root@SpringpathController7PVQWP6WV1:~# cd /tmp/
```

键入unzip Hyperflex-Hypercheck.zip 以解压文件。

```
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**以导航到目Hyperflex-Hypercheck录。

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

键入 以便执行脚本。

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

步骤5.根据提示输入SCVM根密码。

```
Enter this information of HX-Cluster:
Enter the HX-Cluster Root Password:
Enter the ESX Root Password:
```



注意：要停止脚本执行，请使用键(CTRL+Z)并立即停止。

步骤6. Hyperflex-Hypercheck工具开始检查。完成该操作大约需要3-10分钟，具体取决于集群中的融合节点数量。

步骤7.获取脚本输出报告。您可以按如下所示接收它：

文件Hypercheck Report tar，保存在和/var/log/springpath下/tmp/Hyperflex-Hypercheck。因此，您可以从或下下载tar捆绑包。或者，您可以只生成并上传或/tmp/Hyperflex-Hypercheck支持捆绑包，该捆绑包还包含超级检查报告tar。

报告tar文件示例HX_Report_2020_08_30_10_43_50.tar — 复制到路径： /var/log/springpath .

键入ls -l | grep HX_Report以查看Hyperflex-Hypercheck工具创建的文件。

```
Under /var/log/springpath,

root@SpringpathControllerABCDE01234:/var/log/springpath# ls -l | grep HX_Report
-rw-r--r-- 1 root root 380K Sep 23 15:41 HX_Report_2020_08_30_10_43_50.tar
root@SpringpathControllerABCDE01234:/var/log/springpath#

Under /tmp/Hyperflex-Hypercheck,

root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# ls
HX_Report_2020_08_30_10_43_50.tar prettytable.py HX_Report_2020_08_30_10_43_50 TestInfo.txt progressbar
HXTool.py prettytable.pyc ReadMe.txt progressbar.pyc LICENSE.txt
root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck#
```

Hypercheck日志捆绑包中的文件和日志：

```
root@SpringpathControllerABCDE01234:/tmp/Hyperflex-Hypercheck# ls HX_Report_2020_08_30_10_43_50/
HX_Tool_2020-08-30_10-43-50.log
HX_Tool_Main_Report_2020-08-30_10-54-34.txt
HX_Tool_Summary.json
```

步骤8.导出HX_YYYY_MM_DD_HH_MM_SS.tar并与TAC共享。

使用您首选的方法从SCVM导出使用超级检查日scp/sftp/ftp/tftp志，或者下载包含HX_Report tar捆绑包的storfs-support捆绑包。

了解执行的输出/检查

通过超级检查执行的检查

这些检查由Hyperflex-Hypercheck工具执行：

```
<#root>

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

- Verfies the status of the Exhibitor service which manages the ZK

System Disks Usage

- Checks if /sda1, var/stv and /var/zookeeper is less than 80%

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.

Extra pnodes check

- Looks for any extra/duplicate pnode entries in the cluster

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

Permissions for /tmp

- Checks if the /tmp permissions are set correctly

Check Cluster Policy

- Checks the Configured Cluster Policy

Check springpath_keystore.jceks file

- Check if All the SCVM have same keystore file

SED Capable

- Checks if the cluster is SED Capable

SED Enabled

- Checks if Encryption is enabled in the Cluster

USB-0 Check

- If Encryption is enabled, Checks that USB0 interface is present on all the SCVMs

SED 5100/5200

Drive Check - If we have Micron SED 5100 drives and version is below 3.5.2b, we wont be able to replac

Disk Lock Check

- If Encryption is enabled, Checks for any Locked drives

Network Checks

- Checks the connectivity in Storage network

Check ZK-Cleanup-Script

- Checks to identify ZKTxnCleanUp Script

Replication Checks

- If replication is enabled, we check the local and remote network connectivity (HX 4.5 Only)

Stretched Cluster Checks

- Checks the latency between the sites and the witness VM (HX 4.5 Only)

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 confirgued

Check for ESXI Failback timer

- Check for ESXi Failback timer on ESXi host

Check connectivity between vmk1 and eth1

- Checks the connectivity between the Mgmt and Storage network

No extra controller vm folders check

- Checks for duplicate Controller SCVM Folders

VMware Tools location check

- Checks for Non default VMware Tools location

vfat Disk Usage check

- Checks for vfat Disk Usage

Check /tmp usage

- Checking for /tmp usage

Compute Node Checks

- All the ESXI checks are also performed on Compute nodes (HX 4.5 Only)

4节点扩展集群的超检查输出示例

```
Enter this information of HX-Cluster:
Enter the HX-Cluster Root Password:
Enter the ESX Root Password:

Cluster Name: HX-10-Stretched
 Site-100
 Site-97

Cluster Type: STRETCH_CLUSTER

SSH connection established to HX Node: 192.168.53.135
SSH connection established to HX Node: 192.168.53.136
SSH connection established to HX Node: 192.168.53.137
SSH connection established to HX Node: 192.168.53.138

HX Cluster Nodes:
+-------+-------------+--------------------------------+
| Nodes | IP Address   | HostName                       |
+-------+-------------+--------------------------------+
| 1     | 10.39.53.134 | SpringpathControllerOHCWUK9X3N |
+-------+-------------+--------------------------------+
| 2     | 10.39.53.135 | SpringpathController37MHMEIBCY |
+-------+-------------+--------------------------------+
| 3     | 10.39.53.136 | SpringpathControllerDWRWWIBFLF |
+-------+-------------+--------------------------------+
| 4     | 10.39.53.137 | SpringpathControllerWB4UNXDKX3 |
+-------+-------------+--------------------------------+

SSH connection established to ESX Host: 10.39.53.133
SSH connection established to ESX Host: 10.39.53.130
```

```
SSH connection established to ESX Host: 10.39.53.132
SSH connection established to ESX Host: 10.39.53.131

HX Controller: 192.168.53.135
Cluster services check      [########################] COMPLETED
ZooKeeper & Exhibitor check [########################] COMPLETED
HDD health check            [########################] COMPLETED
Pre-Upgrade Check           [########################] COMPLETED
Network check               [########################] COMPLETED

HX Controller: 192.168.53.136
Cluster services check      [########################] COMPLETED
ZooKeeper & Exhibitor check [########################] COMPLETED
HDD health check            [########################] COMPLETED
Pre-Upgrade Check           [########################] COMPLETED
Network check               [########################] COMPLETED

HX Controller: 192.168.53.137
Cluster services check      [########################] COMPLETED
ZooKeeper & Exhibitor check [########################] COMPLETED
HDD health check            [########################] COMPLETED
Pre-Upgrade Check           [########################] COMPLETED
Network check               [########################] COMPLETED

HX Controller: 192.168.53.138
Cluster services check      [########################] COMPLETED
ZooKeeper & Exhibitor check [########################] COMPLETED
HDD health check            [########################] COMPLETED
Pre-Upgrade Check           [########################] COMPLETED
Network check               [########################] COMPLETED


HX Controller: 192.168.53.135
Test Summary:
+-------------------------------------+-----------+-----------------------------------------------
| Name                                | Result    | Comments
+-------------------------------------+-----------+-----------------------------------------------
| Cluster services check              | PASS      | Checks storfs, stMgr, sstNodeMgr service running or
+-------------------------------------+-----------+-----------------------------------------------
| Enospc state check                  | PASS      | Checks if the cluster storage utilization is above
+-------------------------------------+-----------+-----------------------------------------------
| Zookeeper check                     | PASS      | Checks if Zookeeper service is running.
+-------------------------------------+-----------+-----------------------------------------------
| Exhibitor check                     | PASS      | Checks if Exhibitor in running.
+-------------------------------------+-----------+-----------------------------------------------
| System Disks Usage                  | PASS      | Checks if /sda1, var/stv and /var/zookeeper is less
+-------------------------------------+-----------+-----------------------------------------------
| HDD Health check                    | PASS      | Checks if any drive is in blacklisted state.
+-------------------------------------+-----------+-----------------------------------------------
| DNS check                           | PASS      | Checks if configured DNS is reachable.
+-------------------------------------+-----------+-----------------------------------------------
| vCenter reachability check          | PASS      | Checks if vCenter is network reachable using PING.
+-------------------------------------+-----------+-----------------------------------------------
| Timestamp check                     | PASS      | Checks if the timestamp is same across all Nodes.
+-------------------------------------+-----------+-----------------------------------------------
| NTP sync check                      | PASS      | Checks if the NTP is synced with NTP server.
+-------------------------------------+-----------+-----------------------------------------------
| Check package & versions            | PASS      | Checks for count and version of HX packages on each
+-------------------------------------+-----------+-----------------------------------------------
| Check Iptables count                | PASS      | Checks if the IP Table count matches on all nodes.
+-------------------------------------+-----------+-----------------------------------------------
| Extra pnodes check                  | PASS      | Checks for any stale Node entry.
```

Memory usage check	PASS	Checks for available memory more than 2GB.
Incidence of OOM in the log file	PASS	Checks for any previous incidence of Out Of Memory
Supported vSphere versions	6.0.0-U3 6.5.0-U1 6.5.0-U2 6.5.0-U3 6.7.0-UGA 6.7.0-U1 6.7.0-U2 6.7.0-U3	Prints the supported ESXi versions.
Check permissions for /tmp	PASS	Checks if the /tmp permissions are set correctly.
Check Cluster Policy	Lenient	Checks the Configured Cluster Policy
Check springpath_keystore.jceks file	PASS	All the SCVM have same keystore file.
SED Capable	NO	Checks if the cluster is SED Capable.
Check Witness Reachability	PASS	Checks Witness VM IP address is reachabile.
Check ZK-Cleanup-Script	PASS	Checks to identify ZKTxnCleanUp Script.

HX Controller: 192.168.53.136
Test Summary:

Name	Result	Comments
Cluster services check	PASS	Checks storfs, stMgr, sstNodeMgr service running or
Enospc state check	PASS	Checks if the cluster storage utilization is above
Zookeeper check	PASS	Checks if Zookeeper service is running.
Exhibitor check	PASS	Checks if Exhibitor in running.
System Disks Usage	PASS	Checks if /sda1, var/stv and /var/zookeeper is less
HDD Health check	PASS	Checks if any drive is in blacklisted state.
DNS check	PASS	Checks if configured DNS is reachable.
vCenter reachability check	PASS	Checks if vCenter is network reachable using PING.
Timestamp check	PASS	Checks if the timestamp is same across all Nodes.
NTP sync check	PASS	Checks if the NTP is synced with NTP server.
Check package & versions	PASS	Checks for count and version of HX packages on each
Check Iptables count	PASS	Checks if the IP Table count matches on all nodes.
Extra pnodes check	PASS	Checks for any stale Node entry.
Memory usage check	PASS	Checks for available memory more than 2GB.
Incidence of OOM in the log file	PASS	Checks for any previous incidence of Out Of Memory

Supported vSphere versions	6.0.0-U3 6.5.0-U1 6.5.0-U2 6.5.0-U3 6.7.0-UGA 6.7.0-U1 6.7.0-U2 6.7.0-U3	Prints the supported ESXi versions.
Check permissions for /tmp	PASS	Checks if the /tmp permissions are set correctly.
Check Cluster Policy	Lenient	Checks the Configured Cluster Policy
Check springpath_keystore.jceks file	PASS	All the SCVM have same keystore file.
SED Capable	NO	Checks if the cluster is SED Capable.
Check Witness Reachability	PASS	Checks Witness VM IP address is reachabile.
Check ZK-Cleanup-Script	PASS	Checks to identify ZKTxnCleanUp Script.

HX Controller: 192.168.53.137
Test Summary:

Name	Result	Comments
Cluster services check	PASS	Checks storfs, stMgr, sstNodeMgr service running or
Enospc state check	PASS	Checks if the cluster storage utilization is above
Zookeeper check	PASS	Checks if Zookeeper service is running.
Exhibitor check	PASS	Checks if Exhibitor in running.
System Disks Usage	PASS	Checks if /sda1, var/stv and /var/zookeeper is less
HDD Health check	PASS	Checks if any drive is in blacklisted state.
DNS check	PASS	Checks if configured DNS is reachable.
vCenter reachability check	PASS	Checks if vCenter is network reachable using PING.
Timestamp check	PASS	Checks if the timestamp is same across all Nodes.
NTP sync check	PASS	Checks if the NTP is synced with NTP server.
Check package & versions	PASS	Checks for count and version of HX packages on each
Check Iptables count	PASS	Checks if the IP Table count matches on all nodes.
Extra pnodes check	PASS	Checks for any stale Node entry.
Memory usage check	PASS	Checks for available memory more than 2GB.
Incidence of OOM in the log file	PASS	Checks for any previous incidence of Out Of Memory
Supported vSphere versions	6.0.0-U3 6.5.0-U1 6.5.0-U2 6.5.0-U3 6.7.0-UGA	Prints the supported ESXi versions.

```
|                                      | 6.7.0-U1  |
|                                      | 6.7.0-U2  |
|                                      | 6.7.0-U3  |
+--------------------------------------+-----------+-----------------------------------------------------
| Check permissions for /tmp           | PASS      | Checks if the /tmp permissions are set correctly.
+--------------------------------------+-----------+-----------------------------------------------------
| Check Cluster Policy                 | Lenient   | Checks the Configured Cluster Policy
+--------------------------------------+-----------+-----------------------------------------------------
| Check springpath_keystore.jceks file | PASS      | All the SCVM have same keystore file.
+--------------------------------------+-----------+-----------------------------------------------------
| SED Capable                          | NO        | Checks if the cluster is SED Capable.
+--------------------------------------+-----------+-----------------------------------------------------
| Check Witness Reachability           | PASS      | Checks Witness VM IP address is reachabile.
+--------------------------------------+-----------+-----------------------------------------------------
| Check ZK-Cleanup-Script              | PASS      | Checks to identify ZKTxnCleanUp Script.
+--------------------------------------+-----------+-----------------------------------------------------

HX Controller: 192.168.53.138
Test Summary:
+--------------------------------------+-----------+-----------------------------------------------------
| Name                                 | Result    | Comments
+--------------------------------------+-----------+-----------------------------------------------------
| Cluster services check               | PASS      | Checks storfs, stMgr, sstNodeMgr service running or
+--------------------------------------+-----------+-----------------------------------------------------
| Enospc state check                   | PASS      | Checks if the cluster storage utilization is above
+--------------------------------------+-----------+-----------------------------------------------------
| Zookeeper check                      | PASS      | Checks if Zookeeper service is running.
+--------------------------------------+-----------+-----------------------------------------------------
| Exhibitor check                      | PASS      | Checks if Exhibitor in running.
+--------------------------------------+-----------+-----------------------------------------------------
| System Disks Usage                   | PASS      | Checks if /sda1, var/stv and /var/zookeeper is less
+--------------------------------------+-----------+-----------------------------------------------------
| HDD Health check                     | PASS      | Checks if any drive is in blacklisted state.
+--------------------------------------+-----------+-----------------------------------------------------
| DNS check                            | PASS      | Checks if configured DNS is reachable.
+--------------------------------------+-----------+-----------------------------------------------------
| vCenter reachability check           | PASS      | Checks if vCenter is network reachable using PING.
+--------------------------------------+-----------+-----------------------------------------------------
| Timestamp check                      | PASS      | Checks if the timestamp is same across all Nodes.
+--------------------------------------+-----------+-----------------------------------------------------
| NTP sync check                       | PASS      | Checks if the NTP is synced with NTP server.
+--------------------------------------+-----------+-----------------------------------------------------
| Check package & versions             | PASS      | Checks for count and version of HX packages on each
+--------------------------------------+-----------+-----------------------------------------------------
| Check Iptables count                 | PASS      | Checks if the IP Table count matches on all nodes.
+--------------------------------------+-----------+-----------------------------------------------------
| Extra pnodes check                   | PASS      | Checks for any stale Node entry.
+--------------------------------------+-----------+-----------------------------------------------------
| Memory usage check                   | PASS      | Checks for available memory more than 2GB.
+--------------------------------------+-----------+-----------------------------------------------------
| Incidence of OOM in the log file     | PASS      | Checks for any previous incidence of Out Of Memory
+--------------------------------------+-----------+-----------------------------------------------------
| Supported vSphere versions           | 6.0.0-U3  | Prints the supported ESXi versions.
|                                      | 6.5.0-U1  |
|                                      | 6.5.0-U2  |
|                                      | 6.5.0-U3  |
|                                      | 6.7.0-UGA |
|                                      | 6.7.0-U1  |
|                                      | 6.7.0-U2  |
|                                      | 6.7.0-U3  |
+--------------------------------------+-----------+-----------------------------------------------------
| Check permissions for /tmp           | PASS      | Checks if the /tmp permissions are set correctly.
```

Check Cluster Policy	Lenient	Checks the Configured Cluster Policy
Check springpath_keystore.jceks file	PASS	All the SCVM have same keystore file.
SED Capable	NO	Checks if the cluster is SED Capable.
Check Witness Reachability	FAIL	Checks Witness VM IP address is reachabile.
Check ZK-Cleanup-Script	PASS	Checks to identify ZKTxnCleanUp Script.
Check Disk for SMART Failure.	PASS	Checks disks for SMART Failure.

##

Network check:

##

ESX vmk0: 10.39.53.130, 10.39.53.131, 10.39.53.132, 10.39.53.133

ESX vmk1: 192.168.53.130, 192.168.53.131, 192.168.53.132, 192.168.53.133

SCVM eth0: 10.39.53.134, 10.39.53.135, 10.39.53.136, 10.39.53.137

SCVM eth1: 192.168.53.135, 192.168.53.136, 192.168.53.137, 192.168.53.138

ESX Host: 10.39.53.130

Name	Result	Comments
HX User Account check	PASS	Checks if HXUSER is present.
vMotion enabled check	PASS	Checks if vMotion is enabled on the host.
Check for ESXI Failback timer	PASS	Checks for ESXi FAILBACK timer set to 30000ms.
Check vmk1 ping to eth1	PASS	Checks Network between ESXi vmk1 and SCVM eth1.
No extra controller vm folders check	PASS	Checks for duplicate Controller SCVM Folders.
VMware Tools location check	PASS	Checks for Non default VMware Tools location.
vfat Disk Usage check	PASS	Checks for vfat Disk Usage.
Check /tmp usage	PASS	Checking for /tmp usage.

ESX Host: 10.39.53.131

Name	Result	Comments
HX User Account check	PASS	Checks if HXUSER is present.
vMotion enabled check	PASS	Checks if vMotion is enabled on the host.
Check for ESXI Failback timer	PASS	Checks for ESXi FAILBACK timer set to 30000ms.
Check vmk1 ping to eth1	PASS	Checks Network between ESXi vmk1 and SCVM eth1.
No extra controller vm folders check	PASS	Checks for duplicate Controller SCVM Folders.
VMware Tools location check	PASS	Checks for Non default VMware Tools location.

```
| vfat Disk Usage check                | PASS   | Checks for vfat Disk Usage.                      |
+--------------------------------------+--------+--------------------------------------------------+
| Check /tmp usage                     | PASS   | Checking for /tmp usage.                         |
+--------------------------------------+--------+--------------------------------------------------+

ESX Host: 10.39.53.132
+--------------------------------------+--------+--------------------------------------------------+
| Name                                 | Result | Comments                                         |
+--------------------------------------+--------+--------------------------------------------------+
| HX User Account check                | PASS   | Checks if HXUSER is present.                     |
+--------------------------------------+--------+--------------------------------------------------+
| vMotion enabled check                | PASS   | Checks if vMotion is enabled on the host.        |
+--------------------------------------+--------+--------------------------------------------------+
| Check for ESXI Failback timer        | PASS   | Checks for ESXi FAILBACK timer set to 30000ms.   |
+--------------------------------------+--------+--------------------------------------------------+
| Check vmk1 ping to eth1              | PASS   | Checks Network between ESXi vmk1 and SCVM eth1.  |
+--------------------------------------+--------+--------------------------------------------------+
| No extra controller vm folders check | PASS   | Checks for duplicate Controller SCVM Folders.    |
+--------------------------------------+--------+--------------------------------------------------+
| VMware Tools location check          | PASS   | Checks for Non default VMware Tools location.    |
+--------------------------------------+--------+--------------------------------------------------+
| vfat Disk Usage check                | PASS   | Checks for vfat Disk Usage.                      |
+--------------------------------------+--------+--------------------------------------------------+
| Check /tmp usage                     | PASS   | Checking for /tmp usage.                         |
+--------------------------------------+--------+--------------------------------------------------+

Main Report File: HX_Tool_Main_Report_2020-08-26_09-54-59.txt
Report tar file: HX_Report_2020_08_26_09_43_18.tar
Report file copied to path: /var/log/springpath

Release Notes:
https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/product

Upgrade Guides:
https://www.cisco.com/c/en/us/support/hyperconverged-systems/hyperflex-hx-data-platform-software/product

Note:
1) If upgrading to HX 4.0(2a), please review the following link and perform workaround – https://tinyurl
2) Please check the status of Compute nodes manually, script only verifies the config on the converged n
3) Hypercheck doesnot perform FAILOVER TEST, so please ensure that the upstream is configured for networ
4) If you have performed any activity on your vcenter(like upgrade, certificate replacement,etc.), it is
```

分析工具输出

后续步骤

- 该工具可自动在Hyperflex系统上运行手动命令。
- 如果工具运行OK并在所有测试上发出PASS，则HX系统适用于脚本执行的所有检查。
- 如果工具在某些检查中失败或无法成功运行，您可以使用CLI命令（已列出）在Hyperflex系统上执行与脚本手动执行的检查相同的检查。
- 该工具不检查任何旧/新/打开/解决的警告，因此强烈建议在任何升级或维护活动之前查看

Hyperflex发行说明和升级指南。

注意：请勿打开TAC案例，因为脚本无法运行。手动运行命令，确定问题并打开SR查找所发现的问题。

CLI命令

在Hyperflex SCVM上：

```
SSH to All Hyperflex SCVMs-

# service_status.sh

# sysmtool --ns cluster --cmd enospcinfo

# echo srvr | nc 0 2181

# pidof exhibitor

# stcli disk list --ip <Corresponding ESXi Mgmt IP Address> |grep -B 2 -A 8 blacklisted

# stcli services dns show (and ping the IPs listed)

# ping <vCenter IP Address>

# date ; compare the time on all SCVMs. They should ideally be identical

# stcli services ntp show

# stcli cleaner info

# ntpq -p -4

# dpkg -l | grep -i springpath | grep -v storfs-support*

# sysmtool --ns disk --cmd list | grep -i blacklisted

# iptables -L -n | wc -l

# stcli cluster info

# df -h ; check that /var/stv should be less than 80%

# zgrep -i “out of memory” /var/log/springpath/debug-storfs.*

# ping -I eth0 <eth0> of all SCVMs

# ping -I eth1 <eth1> of all SCVMs

# "ls -ld /tmp" check for 775 and 777
```

```
# stcli cluster info | grep -i 'clusterAccessPolicy:' | head -1

# md5sum /etc/springpath/secure/springpath_keystore.jceks

# cat /etc/springpath/sed_capability.conf

# cat /etc/springpath/sed.conf

# cat /var/log/springpath/diskslotmap-v2.txt

# stcli cluster info | grep dataZkIp (ping dataZkIp for latency)
```

在ESXi系统上：

```
SSH to all ESXi hosts

# esxcli system account list

# esxcli network firewall ruleset list | grep -i vMotion

# esxcli software vib list| egrep -i 'scvm|stHyper|stfs'

# chkconfig --list | grep -E 'ntpd|hostd|vpxa|stHypervisorSvc|scvmclient|hxctlvm'

# esxcfg-vmknic -l ; confirm that vMotion VMK2 is created

# vmkping -I vmk1 <eth1> of all SCVMs

# cd /vmfs/volumes/Springpath-XXXXXXXXXX ; Ensure that it has only one Folder that has the Storage Cont

# df -h | grep vfat  ; Ensure dir has free space
```

相关信息

- 思科技术支持和下载

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思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

请注意：即使是最好的机器翻译，其准确度也不及专业翻译人员的水平。

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