

超级检查：Hyperflex运行状况&升级前检查工具 — HyperV

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简介

本文档介绍在Hyperflex HyperV群集上运行Hypercheck运行状况检查和预升级工具的过程。此工具是一种实用程序，用于对hyperflex系统执行主动自检，以确保其稳定性和恢复能力。它有助于自动列出hyperflex系统的运行状况和升级前检查，以节省hyperflex升级和维护操作期间的的时间。

注意：在使用工具之前，请务必先下载最新版本的工具。由于工具经常增强，使用较旧版本可能导致缺少重要检查。

支持的HX系统

- Hyperflex版本 — 3.0、3.5、4.0
- Hyperflex标准集群
- 仅在Microsoft Hyper-V中的Hyperflex群集上受支持

注意：如何在hyperflex ESXi群集上运行Hypercheck,请访问 —

<https://www.cisco.com/c/en/us/support/docs/hyperconverged-infrastructure/hyperflex-hx-data-platform/214101-hypercheck-hyperflex-health-pre-upgr.html>

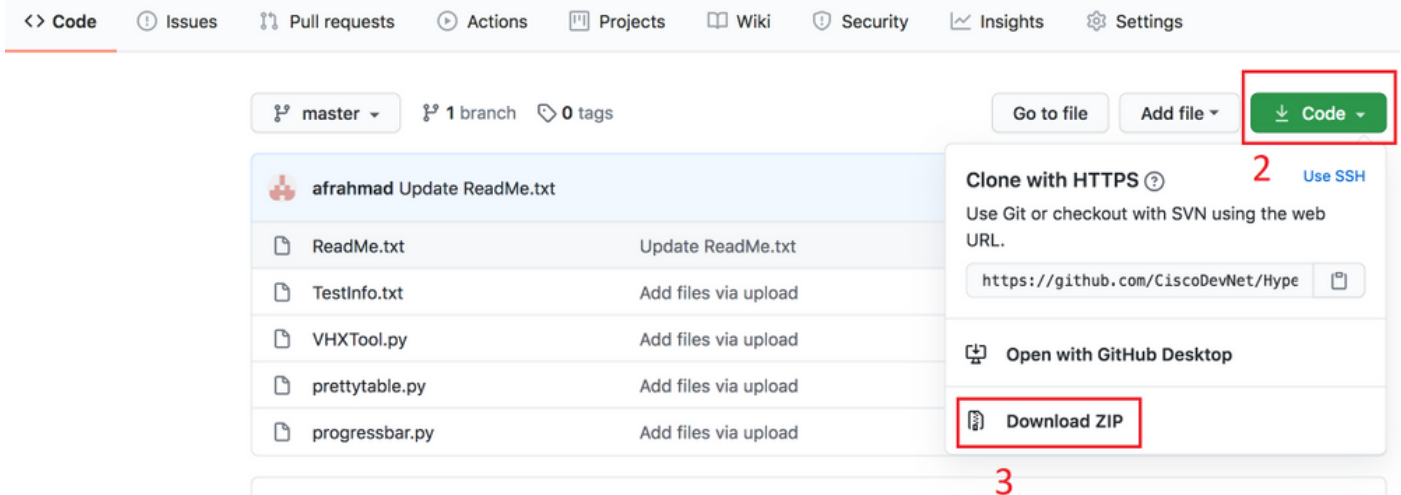
何时使用

- 在Hyperflex升级之前。
- 维护窗口前后的Hyperflex运行状况检查
- 识别故障驱动器/磁盘。
- 使用思科TAC时
- 随时进行主动运行状况检查。

如何使用

步骤1.从此处的Cisco github devnet帐户下载Hyperflex-Hypercheck.zip。[请](#)获取最新副本，其中包含最新的改进和更新。

注意：仅使用从Cisco github devnet帐户下载脚脚本。



步骤2.使用集群管理IP(CMIP)将其上传到存储控制器VM(SCVM)。

使用首选方法scp/sftp/ftp/tftp — 将Hypercheck-HyperV-master.zip复制到/tmp目录中。

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 Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

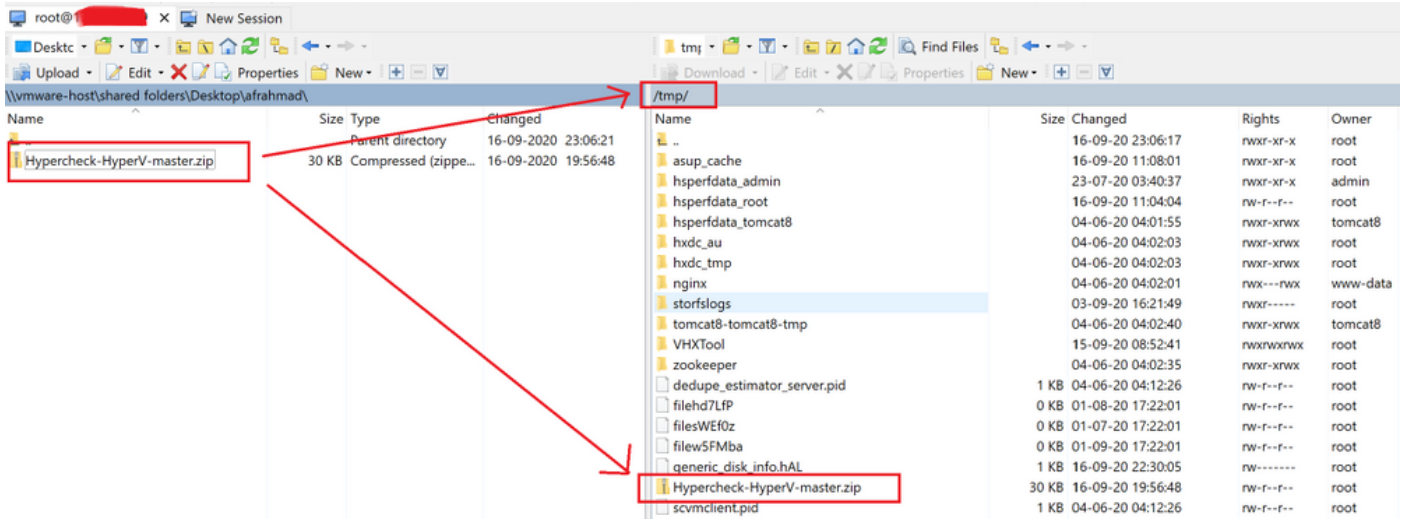
使用以下内容确定HX环境中的集群管理IP - Hyperflex攻略

```
afrahmad@AFRAHMAD-M-C3RS Desktop $ scp Hypercheck-HyperV-master.zip root@10.10.10.10:/tmp/
HyperFlex StorageController 4.0(1b)
Password:
Hypercheck-HyperV-master.zip
afrahmad@AFRAHMAD-M-C3RS Desktop $
```

100% 30KB 40.9KB/s 00:00

Windows :

我们可以使用WINSOCP传输文件，如下所示 —



步骤3.提取Hypercheck-HyperV-master.zip的内容

键入cd /tmp以更改为/tmp目录

```
root@hyper11-stc:~# cd /tmp/
```

键入unzip Hypercheck-HyperV-master.zip以解压文件

```
root@hyper11-stc:/tmp# unzip Hypercheck-HyperV-master.zip
Archive: Hypercheck-HyperV-master.zip
67f0d63639785f5c18b8ed35ff789f748157e944
creating: Hypercheck-HyperV-master/
inflating: Hypercheck-HyperV-master/README.md
inflating: Hypercheck-HyperV-master/ReadMe.txt
inflating: Hypercheck-HyperV-master/TestInfo.txt
inflating: Hypercheck-HyperV-master/VHXTTool.py
inflating: Hypercheck-HyperV-master/prettytable.py
inflating: Hypercheck-HyperV-master/progressbar.py
root@hyper11-stc:/tmp#
```

步骤4.执行VHXTTool Python脚本

键入cd Hypercheck-HyperV-master以转到Hypercheck-HyperV-master目录

```
root@hyper11-stc:/tmp# cd Hypercheck-HyperV-master
```

键入python VHXTTool.py以执行脚本

```
root@hyper11-stc:/tmp/Hypercheck-HyperV-master# python VHXTTool.py
```

步骤5.在出现提示时输入HyperV管理员用户名、密码和集群根密码

```
Please enter below info of Hyper-V Cluster:
Enter the Hyper-V Username(Ex: Domain\Username):
Enter the Hyper-V Password:
Enter the HX-Cluster Root Password:
```

注意：要停止脚本执行，请使用键[CTRL+Z]，它将立即停止

步骤6. Hyperflex-Hypercheck工具将提示您查询Active Directory是否安装在环境中的裸机上。

注意:无论此处提供的输入（是/否），脚本都将继续运行。以下消息将显示为警告字。

“请注意，所有Active Directory服务器/ DNS服务器不应嵌套在Hyperflex Datastore虚拟机中。您的环境中应始终有物理（裸机）AD”

步骤7. Hyperflex-Hypercheck工具开始检查。根据集群中的融合节点数，执行过程大约需要5-10分钟

步骤8.了解执行的输出/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.

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.
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.

Cache Disks check - Checks the number of Cache Disks.
Extra pnodes check - Looks for any extra/duplicate pnode entries in the cluster.
Memory usage check - Checks for available memory more than 2GB.
Incidence of OOM in the log file - Checks for any previous incidence of Out Of Memory Condition.

Check permissions for /tmp - Checks if the /tmp permissions are set correctly.
Check Cluster Access Policy - Checks the Configured Cluster Access Policy
CMIP Hostname - Check if the clustermanagementip has hostname defined
Check domain join health - checking domain join health of the node.

HYPER-V Checks: (Below checks are performed on each HyperV node)

Hostname - check and print the hostname of the node.
Cluster Failover - check and ensure cluster failover is enabled.
Hyper-V Role - Check and ensure HyperV role is enabled.
Node State - Checks the state of the node.
Network Interfaces State - Checks the Network Interfaces State of the node.
Remote Management Enabled - Check if the Remote Management is enabled on the node.
MTU for Storage Data Network - Check MTU for the Storage Data Network of the node.

Domain and forest details - Check the Domain and forest details of the cluster.
Host file entries- Check if the host file have correct entries.
Check Adapter details - Check Adapter details of the node.
Drivers test - Check the status of minifilter drivers.
SMB Test - Checking SMB Path reachability from the node.
VMMS - Checking the VMMS Service status

步骤9.获取脚本输出的报告。您可以按如下所示获得

Hypercheck Report tar文件保存在/var/log/springpath和/tmp/Hypercheck-HyperV-master下。因此，您可以从/var/log/springpath 或/tmp/Hypercheck-HyperV-master下载tar捆绑包。或者，您只能生成并上传一个storfs-support捆绑包，该捆绑包还将包含hypercheck报告tar。

Hypercheck Report tar文件保存在/var/log/springpath下。

报告tar文件示例- VHX_Report_2020_08_29_08_40_20.tar被复制到路径：/var/log/springpath

类型ls -l | grep VHX_Report，用于查看Hyperflex-Hypercheck工具创建的文件

Under /var/log/springpath,

```
root@hyper11-stc:/var/log/springpath# ls -l | grep VHX_Report
-rw-r--r-- 1 root root 370K Aug 29 08:47 VHX_Report_2020_08_29_08_40_20.tar
root@hyper10-stc:/var/log/springpath#
```

Under /tmp/Hypercheck-HyperV-master

```
root@hyper11-stc:/tmp/Hypercheck-HyperV-master# ls -ltrh
total 576K
-rwxrwxrwx 1 root root 53K Apr 10 2018 prettytable.py
-rwxrwxrwx 1 root root 1.4K Jan 22 2019 progressbar.py
-rwxrwxrwx 1 root root 1.6K Aug 28 00:27 ReadMe.txt
-rwxrwxrwx 1 root root 75K Aug 28 06:32 VHXTool.py
```

```
-rwxrwxrwx 1 root root 3.5K Aug 28 06:46 TestInfo.txt
-rw-r--r-- 1 root root 49K Aug 29 08:40 prettytable.pyc
-rw-r--r-- 1 root root 1.8K Aug 29 08:40 progressbar.pyc
drwxr-xr-x 2 root root 4.0K Aug 29 08:47 VHX_Report_2020_08_29_08_40_20
-rw-r--r-- 1 root root 370K Aug 29 08:47 VHX_Report_2020_08_29_08_40_20.tar
```

Hypercheck日志捆绑包中的文件和日志 —

```
root@hyper11-stc: tmp/Hypercheck-HyperV-master # cd VHX_Report_2020_08_29_08_40_20
root@hyper11-stc: tmp/Hypercheck-HyperV-master # ls -ltrh
-rw-r--r-- 1 root root 27K Aug 29 08:44 VHX_Report_10.8.16.65.txt
-rw-r--r-- 1 root root 27K Aug 29 08:45 VHX_Report_10.8.16.66.txt
-rw-r--r-- 1 root root 27K Aug 29 08:47 VHX_Report_10.8.16.67.txt
-rw-r--r-- 1 root root 101K Aug 29 08:47 VHX_Tool_Main_Report_2020-08-29_08-47-43_HYPER11-SMB.txt
-rw-r--r-- 1 root root 186K Aug 29 08:47 VHXTool_2020-08-29_08-40-20.log
```

步骤 10 : 导出HX_YYYY_MM_DD_HH_MM_SS.tar , 并与TAC共享。

使用首选方法从SCVM使用scp/sftp/ftp/tftp导出Hypercheck日志 , 或者您只需下载包含VHX_Report tar捆绑包的storfs支持捆绑包。

步骤11.3节点群集的VHXTool输出示例

```
Please enter below info of Hyper-V Cluster:
Enter the Hyper-V Username(Ex: Domain\Username): hx.local\hxadmin
Enter the Hyper-V Password:
Enter the HX-Cluster Root Password:

Is the Active Directory installed on Physical (bare metal) in your Environment (Enter Yes/No):
yes
Note: Please be aware that all Active Directory Servers/ DNS Servers should not be nested in
Hyperflex datastore virtual machines. There should always be physical (bare metal) ADs in your
environment.

SMB Name: HYPER10-SMB

SSH connection established to HX Node: 10.8.16.65
SSH connection established to HX Node: 10.8.16.66
SSH connection established to HX Node: 10.8.16.67

HX Cluster Nodes:
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| Nodes | Eth0 IP Address | HostName      | Eth1 IP Address | Eth1 MTU | Cluster Mgmt IP
| Cluster Data IP | CRM Master |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| 1     | 10.8.16.65     | hyper10-stc  | 10.8.18.65     | 9000     | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| 2     | 10.8.16.66     | hyper11-stc  | 10.8.18.66     | 9000     | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| 3     | 10.8.16.67     | hyper12-stc  | 10.8.18.67     | 9000     | HYPER10-MGMT-IP.hx.local
| 10.8.18.69 | 10.8.18.67 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
```

HX Controller: 10.8.16.65

```

Cluster services check [#####] COMPLETE
ZooKeeper & Exhibitor check [#####] COMPLETE
HDD health check [#####] COMPLETE
Pre-Upgrade Check [#####] COMPLETE
Hyper-V check [#####] COMPLETE

```

HX Controller: 10.8.16.66

```

Cluster services check [#####] COMPLETE
ZooKeeper & Exhibitor check [#####] COMPLETE
HDD health check [#####] COMPLETE
Pre-Upgrade Check [#####] COMPLETE
Hyper-V check [#####] COMPLETE

```

HX Controller: 10.8.16.67

```

Cluster services check [#####] COMPLETE
ZooKeeper & Exhibitor check [#####] COMPLETE
HDD health check [#####] COMPLETE
Pre-Upgrade Check [#####] COMPLETE
Hyper-V check [#####] COMPLETE

```

HX Controller: 10.8.16.65

Test Summary:

```

+-----+-----+
+-----+-----+
| Name | Result |
| | |
+-----+-----+
+-----+-----+
| Cluster services check | |
PASS | Checks storfs, stMgr, sstNodeMgr
service running on each node. |
+-----+-----+
+-----+-----+
| Enospc state check | |
PASS | Checks if the cluster storage
utilization is above threshold. |
+-----+-----+
+-----+-----+
| 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 than 80%. |
+-----+-----+
+-----+-----+
| HDD health check | |
PASS | Checks if any drive is in
blacklisted state. |
+-----+-----+
+-----+-----+
| DNS check | PASS |
| Checks if configured DNS is reachable. |
+-----+-----+
+-----+-----+

```

```

| 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 node. |
+-----+-----+
| Check Iptables count    |
PASS                      | Checks if the IP Table count
matches on all nodes.    |
+-----+-----+
| Cache Disks check       | PASS
| Checks the number of Cache Disks. |
+-----+-----+
| 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 Condition. |
+-----+-----+
| Check permissions for /tmp | PASS
| Checks if the /tmp permissions are
set correctly.           |
+-----+-----+
| Check Cluster Access Policy |
Lenient                  | Checks the Configured Cluster
Access Policy            |
+-----+-----+
| Check CMIP Hostname     |
PASS                      | Check if the clustermanagementip
has hostname defined.    |
+-----+-----+
| Domain join health      | Name = hyper10-stc
| Checking domain join health of the Node. |
| Domain =
HX.LOCAL                 |
|                           |
|                           | Distinguished Name = CN=HYPER10-
|                           | STC,OU=HYPER10,DC=hx,DC=local |
+-----+-----+

```

HX Controller: 10.8.16.66

Test Summary:

Name	Comments	Result	
Cluster services check	service running on each node.	PASS	Checks storfs, stMgr, sstNodeMgr
Enospc state check	utilization is above threshold.	PASS	Checks if the cluster storage
Zookeeper check	running.	PASS	Checks if Zookeeper service is
Exhibitor check	running.	PASS	Checks if Exhibitor in
System Disks Usage	/var/zookeeper is less than 80%.	PASS	Checks if /sda1, var/stv and
HDD health check	blacklisted state.	PASS	Checks if any drive is in
DNS check		PASS	Checks if configured DNS is reachable.
Timestamp check	across all Nodes.	PASS	Checks if the timestamp is same
NTP sync check	NTP server.	PASS	Checks if the NTP is synced with
Check package & versions	HX packages on each node.	PASS	Checks for count and version of
Check Iptables count	matches on all nodes.	PASS	Checks if the IP Table count
Cache Disks check		PASS	Checks the number of Cache Disks.


```

running.          |
+-----+-----+
+-----+-----+
| Exhibitor check          | PASS          | Checks if Exhibitor in
running.          |
+-----+-----+
+-----+-----+
| System Disks Usage      |              | Checks if /sda1, var/stv and
PASS              |              | /var/zookeeper is less than 80%. |
+-----+-----+
+-----+-----+
| HDD health check        |              | Checks if any drive is in
PASS              |              | blacklisted state.
+-----+-----+
+-----+-----+
| DNS check                | PASS         | Checks if configured DNS is reachable. |
+-----+-----+
+-----+-----+
| Timestamp check         |              | Checks if the timestamp is same
PASS              |              | across all Nodes.
+-----+-----+
+-----+-----+
| NTP sync check          |              | Checks if the NTP is synced with
PASS              |              | NTP server.
+-----+-----+
+-----+-----+
| Check package & versions |              | Checks for count and version of
PASS              |              | HX packages on each node.
+-----+-----+
+-----+-----+
| Check Iptables count    |              | Checks if the IP Table count
PASS              |              | matches on all nodes.
+-----+-----+
+-----+-----+
| Cache Disks check       | PASS         | Checks the number of Cache Disks.
+-----+-----+
+-----+-----+
| Extra pnodes check      |              | Checks for any stale Node
PASS              |              | entry.
+-----+-----+
+-----+-----+
| Memory usage check      |              | Checks for available memory more
PASS              |              | than 2GB.
+-----+-----+
+-----+-----+
| Incidence of OOM in the log file |          | Checks for any previous
PASS              |          | incidence of Out Of Memory Condition. |
+-----+-----+
+-----+-----+
| Check permissions for /tmp | PASS         | Checks if the /tmp permissions are
set correctly.    |

```

```

+-----+-----+
+-----+-----+
| Check Cluster Access Policy      |
Lenient                               | Checks the Configured Cluster
Access Policy                          |
+-----+-----+
+-----+-----+
| Check CMIP Hostname              |
PASS                                   | Check if the clustermanagementip
has hostname defined.                 |
+-----+-----+
+-----+-----+
| Domain join health                | Name = hyper12-stc
                                     | Checking domain join health of the Node.
|                                     | Domain =
HX.LOCAL                               |
|                                     |
|                                     | Distinguished Name = CN=HYPER12-
STC,OU=HYPER10,DC=hx,DC=local        |
+-----+-----+
+-----+-----+

```

```

#####
Hyper-V check:
#####

```

Hyper-V Clusters: 10.8.16.61, 10.8.16.62, 10.8.16.63

Hyper-V Host: 10.8.16.61

```

+-----+-----+
+-----+-----+
| Name                               | Status
Comments                               |
+-----+-----+
+-----+-----+
| HostName                           |
HYPER10                               | Check if
the hostname is defined.              |
+-----+-----+
+-----+-----+
| Cluster Failover                   |
Installed                             | Check if
the Failover Cluster Manager feature |
is installed.                         |
+-----+-----+
+-----+-----+
| Hyper-V Role                       |
Installed                             | Check if
the Hyper-V Manager feature is      |
installed.                            |
+-----+-----+
+-----+-----+
| Node State                         |
PASS                                   | Check the
Node State.                           |
+-----+-----+
+-----+-----+
| Network Interfaces State           |
PASS                                   | Check the
Network Interfaces State.            |
+-----+-----+
+-----+-----+
| Remote Management Enabled          |
PASS                                   | Check if

```

```

the Remote Management is enabled on the node.      |
+-----+-----+-----+-----+-----+-----+
| MTU for Storage Data Network                      |
9000                                                | Check MTU
for the Storage Data Network.                      |
+-----+-----+-----+-----+-----+-----+
| Check the Domain and forest details              | Description      : HXDC-
DOMAIN                                             | Check the Domain and forest details of
the cluster.      |
|                                                    | DnsForestName   :
hx.local
|                                                    |
|                                                    | DomainControllerAddress :
\\10.8.12.254
|                                                    |
|                                                    | DomainControllerName  :
\\HXDC
|                                                    |
|                                                    | DomainName         : HXDC-
DOMAIN
|                                                    |
|                                                    | Status            : OK
|
+-----+-----+-----+-----+-----+-----+
| Check host file entries                          |
|                                                    | Check if
the host file have correct entries.
|                                                    |
| 10.8.18.65    HYPER10-
SMB.hx.local
|
| 10.8.18.69    HYPER10-SMB.hx.local
|
+-----+-----+-----+-----+-----+-----+
| Check Adapter details                            | InterfaceAlias
InterfaceDescription      IPv4Address  | Check Adapter details of the
node.
|
| -----
|
| vswitch-hx-livemigration      Hyper-V Virtual
Ethernet Adapter #4 {10.8.17.61}
|
|
| vswitch-hx-vm-network        Hyper-V Virtual
Ethernet Adapter #3 {10.8.19.61}
|
|
| vswitch-hx-storage-data      Hyper-V Virtual
Ethernet Adapter #2 {10.8.18.61}
|
|
| vswitch-hx-inband-mgmt       Hyper-V Virtual
Ethernet Adapter {10.8.16.61}
|
|
| vEthernet (New Virtual Switch) Hyper-V Virtual
Ethernet Adapter #5 {169.254.84.129}
|
+-----+-----+-----+-----+-----+-----+
| Drivers test                                     | Filter Name      Num Instances
Altitude      Frame      | Check the status of minifilter drivers.
|

```

404900	0	CsvNSFlt	1
404800	0	CsvFlt	0
261160	0	CCFFilter	1
244000	0	storqosflt	1
202000	0	ResumeKeyFilter	0
189900	0	wcifs	0
180451	0	CldFlt	0
141100	0	FileCrypt	0
135100	0	svhdxflt	0
135000	0	luafv	1
46000	0	npsvctrig	1
40700	0	Wof	1

```

+-----+-----+-----+-----+
| Virtual Machine Management service check |
PASS | Checking
if VMMS service is Up and Running.

```

```

+-----+-----+-----+-----+
| SMB Test |
PASS | Checking
SMB reachability of node.

```

Hyper-V Host: 10.8.16.62

```

+-----+
| Name | Status |
|-----|-----|
Comments |
+-----+
| HostName |
HYPER11

```

```

Check if the hostname is defined. |
+-----+-----+
-----+
| Cluster Failover | Installed |
| Check if the
Failover Cluster Manager feature is installed. |
+-----+-----+
-----+
| Hyper-V Role | Installed |
| Check if the Hyper-V Manager feature is installed. |
+-----+-----+
-----+
| Node State | PASS |
| Check the Node State. |
+-----+-----+
-----+
| Network Interfaces State | PASS |
| Check the Network Interfaces State. |
+-----+-----+
-----+
| Remote Management Enabled | PASS |
| Check if the Remote Management is enabled on the node. |
+-----+-----+
-----+
| MTU for Storage Data Network | 9000 |
| Check MTU for the Storage Data
Network. |
+-----+-----+
-----+
| Check the Domain and forest details | Description : HXDC-
DOMAIN | Check the Domain and forest
details of the cluster. |
| DnsForestName :
hx.local |
| DomainControllerAddress :
\\10.8.12.254 |
| DomainControllerName :
\\HXDC |
| DomainName : HXDC-
DOMAIN |
| Status :
OK |
+-----+-----+
-----+
| Check host file entries |
| Check if the host file have
correct entries. |

```

| 10.8.18.66 HYPER10-
SMB.hx.local

| 10.8.18.69 HYPER10-
SMB.hx.local

-----+
-----+
-----+

| Check Adapter details | InterfaceAlias
InterfaceDescription IPv4Address | Check Adapter details of the
node. |

| ----- | -----

| |
| | vswitch-hx-inband-mgmt Hyper-V Virtual
Ethernet Adapter {10.8.16.70, 10.8.16.62} |

| | vswitch-hx-livemigration Hyper-V Virtual
Ethernet Adapter #4 {10.8.17.62} |

| | vswitch-hx-storage-data Hyper-V Virtual
Ethernet Adapter #2 {10.8.18.62} |

| | vswitch-hx-vm-network Hyper-V Virtual
Ethernet Adapter #3 {10.8.19.62} |

| | vEthernet (New Virtual Switch) Hyper-V Virtual
Ethernet Adapter #5 {169.254.247.198} |

-----+
-----+
-----+

| Drivers test | Filter Name Num Instances
Altitude Frame | Check the status of minifilter
drivers. |

| ----- | -----

| |
| | CsvNSflt | 1
404900 0

| |
| | Csvflt | 0
404800 0

| |
| | CCFFilter | 1
261160 0

| |
| | storqosflt | 2
244000 0

| |
| | ResumeKeyFilter | 0
202000 0

| |
| | wcifs | 0
189900 0

| |
| | Cldflt | 0
180451 0

| |
| | FileCrypt | 0
141100 0

| |
| | svhdxflt | 0

```

135100      0
|
|
|          | luafv          |          1
135000      0
|
|          | npsvcstrig    |          1
46000       0
|
|          | Wof           |          1
40700       0
|

```

```

+-----+-----+
-----+
| Virtual Machine Management service check |
PASS
Checking if VMMS service is Up and Running.
+-----+-----+
-----+
| SMB Test
PASS
Checking SMB reachability of node.
+-----+-----+
-----+

```

Hyper-V Host: 10.8.16.63

```

+-----+-----+
-----+-----+
| Name | Status
| Comments
|
+-----+-----+
-----+-----+
| HostName |
HYPER12 | Check if
the hostname is defined.
+-----+-----+
-----+-----+
| Cluster Failover | Installed
| Check if the Failover Cluster Manager feature is installed.
|
+-----+-----+
-----+-----+
| Hyper-V Role |
Installed | Check if
the Hyper-V Manager feature is installed.
+-----+-----+
-----+-----+
| Node State | PASS
| Check the Node State.
|
+-----+-----+
-----+-----+
| Network Interfaces State |
PASS | Check the
Network Interfaces State.
+-----+-----+
-----+-----+
| Remote Management Enabled | PASS
| Check if the Remote Management is enabled on the node.
|

```



```

+-----+-----+
+-----+-----+
| MTU for Storage Data Network          |          |          |
9000                                     |          |          |
for the Storage Data Network.          |          |          |
+-----+-----+
+-----+-----+
| Check the Domain and forest details   | Description          : HXDC-DOMAIN
          | Check the Domain and forest details of the cluster.
|
|          | DnsForestName          :
hx.local          |          |
|
|          | DomainControllerAddress :
\\10.8.12.254     |          |
|
|          | DomainControllerName    :
\\HXDC            |          |
|
|          | DomainName              : HXDC-DOMAIN
|
|          | Status                  :
OK               |          |
+-----+-----+
+-----+-----+
| Check host file entries
|
| Check if the host file have correct entries.
|          | 10.8.18.67          HYPER10-SMB.hx.local
|
|          | 10.8.18.69          HYPER10-
SMB.hx.local    |          |
+-----+-----+
+-----+-----+
| Check Adapter details                 | InterfaceAlias
InterfaceDescription                    | IPv4Address          | Check Adapter details of the
node.                                   |                     |
|          | -----            | -----
|          | vswitch-hx-inband-mgmt          Hyper-V Virtual
Ethernet Adapter {10.8.16.63}          |
|          | vswitch-hx-storage-data        Hyper-V Virtual
Ethernet Adapter #2 {10.8.18.63}      |
|          | vswitch-hx-vm-network          Hyper-V Virtual
Ethernet Adapter #3 {10.8.19.63}      |
|          | vswitch-hx-livemigration        Hyper-V Virtual
Ethernet Adapter #4 {10.8.17.63}      |
|          | vEthernet (New Virtual Switch) Hyper-V Virtual
Ethernet Adapter #5 {169.254.18.96}    |
+-----+-----+
+-----+-----+
| Drivers test                           | Filter Name          | Num Instances
Altitude   Frame                       | Check the status of minifilter drivers.
|
|          | -----            | -----

```

404900	0	CsvNSFlt	1
404800	0	CsvFlt	0
261160	0	CCFFilter	1
244000	0	storqosflt	2
202000	0	ResumeKeyFilter	0
189900	0	wcifs	0
180451	0	CldFlt	0
141100	0	FileCrypt	0
135100	0	svhdxflt	0
135000	0	luafv	1
46000	0	npsvctrig	1
40700	0	Wof	1

```

+-----+-----+-----+-----+
+-----+-----+-----+-----+
| Virtual Machine Management service check |
PASS | Checking if
VMMS service is Up and Running. |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
| SMB Test | PASS
| Checking SMB reachability of
node. |
+-----+-----+-----+-----+
+-----+-----+-----+-----+

```

Main Report File: VHX_Tool_Main_Report_2020-09-13_09-49-38_HYPER10-SMB.txt
Report tar file: VHX_Report_2020_09_13_21_42_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/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:
1) Hypercheck doesnot perform FAILOVER TEST, so please ensure that the upstream is configured

for network connectivity for JUMBO or NORMAL MTU size as needed.

分析工具输出 — 后续步骤

- 该工具可自动执行在Hyperflex系统上运行手动命令的过程。
- 如果工具运行“**确定**”，并在**所有测试**中给出“**通过/完成**”。HX系统适用于脚本执行的所有检查。
- 如果某些检查时工具**失败**或未成功运行，则可以使用CLI命令（如下所示）对Hyperflex系统执行与脚本手动执行相同的检查。
- 此工具**不检查**任何旧/新/打开/已解决的警告，因此强烈建议在**进行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：不要 打开TAC案例，因为脚本无法运行。请手动运行这些命令，确定问题并打开SR以查找问题。

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
# sysmtool --ns disk --cmd list | grep -i blacklisted | wc -l
# stcli services dns show (and ping the IPs listed)
# date ; compare the time on all SCVMs. They should ideally be identical
# stcli services ntp show
# sysmtool --ns cleaner --cmd status
# ntpq -p -4
# dpkg -l | grep -i springpath
# iptables -L -n | wc -l
# hxcli cluster info
# df -h ; check that /var/stv should not be more than 80% used
# zgrep -i "out of memory" /var/log/springpath/debug-storfs.*
# domainjoin-cli query
```

在HyperV节点上 —

```
Open the Windows Powershell
```

```
# Get-ClusterNode
# Get-ClusterNetwork
# Get-Service WinRM, Make sure windows remote management service is running
# Get-Content $env:SystemRoot\System32\Drivers\etc\hosts , Make sure you have correct host
entried
# test-path \\<smb-share name fqdn>\<datastorename> This should return true ,if not datastore is
not reachable via smb.
# Get-NetIPConfiguration
# Get-NetIPInterface -AddressFamily IPv4 -InterfaceAlias vswitch-hx-storage-data | select NlMtu*
```