

Hypercheck: Hyperflex 상태 및 업그레이드 전 확인 도구 - HyperV

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소개

이 문서에서는 Hyperflex HyperV 클러스터에서 Hypercheck 상태 확인 및 업그레이드 전 툴을 실행하는 프로세스에 대해 설명합니다. 이 도구는 hyperflex 시스템에서 사전 예방적 자체 검사를 수행하여 안정성과 복원력을 보장하는 유틸리티입니다. Hyperflex 시스템의 상태 및 업그레이드 전 확인 목록을 자동화하여 hyperflex 업그레이드 및 유지 보수 작업 시간을 절약할 수 있습니다.

참고: 툴을 사용하기 전에 항상 최신 버전의 툴을 다운로드하십시오. 툴이 자주 개선되므로 이전 버전을 사용하면 중요한 확인이 누락될 수 있습니다.

지원되는 HX 시스템

- Hyperflex 버전 - 3.0, 3.5, 4.0
- Hyperflex 표준 클러스터
- Microsoft Hyper-V의 Hyperflex 클러스터에서만 지원됨

참고: hyperflex ESXi 클러스터에서 Hypercheck를 실행하는 방법은

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

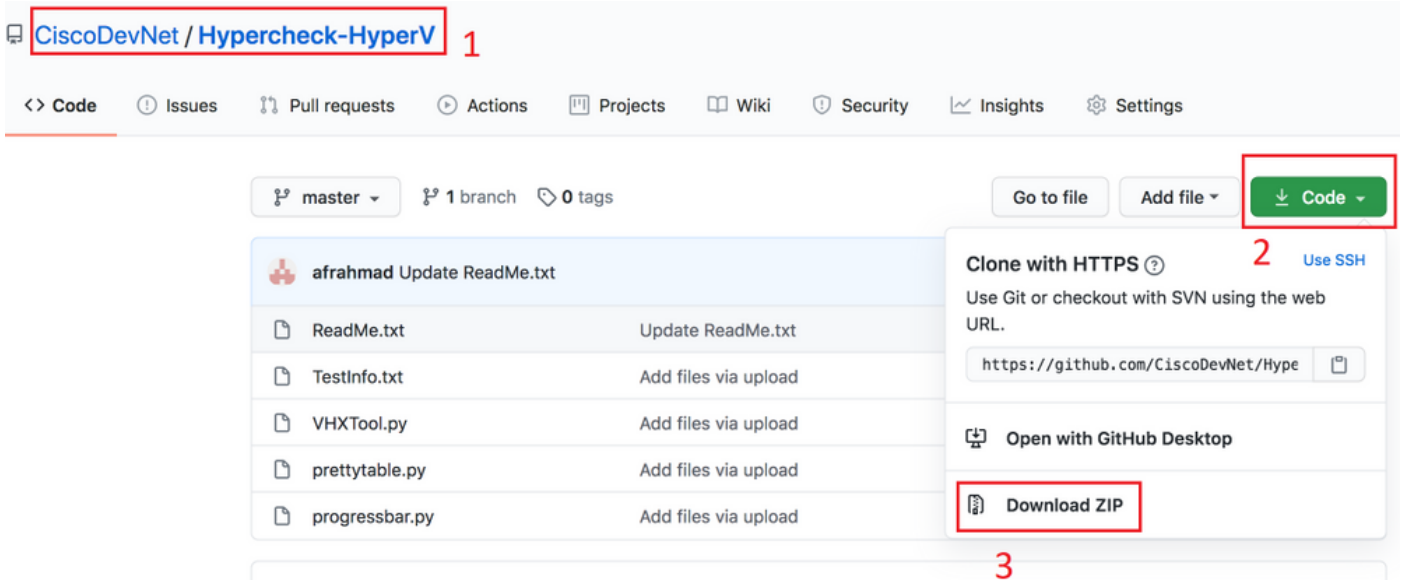
사용 시기

- Hyperflex 업그레이드 전
- Maintenance Windows 이전 및 이후 Hyperflex 상태 확인
- 장애가 발생한 드라이브/디스크를 식별합니다.
- Cisco TAC와 작업할 때
- 언제든지 사전 예방적 상태 점검

사용 방법

1단계. Cisco github devnet 어카운트에서 Hyperflex-Hypercheck.zip을 [여기에서 다운로드하십시오](#). 최신 개선 사항 및 업데이트가 포함된 최신 복사본을 받으십시오.

참고: Cisco github devnet 계정에서 다운로드한 스크립트만 사용합니다.



2단계. CMIP(Cluster Management IP)를 사용하여 SCVM(Storage Controller VM)에 업로드합니다.

원하는 방법인 scp/sftp/ftp/tftp를 사용하여 Hypercheck-HyperV-master.zip을 /tmp 디렉토리에 복사합니다

MAC의 경우:

CLI에서 SCP 수행(scp를 실행 중인 폴더와 Hyperflex-Hypercheck.zip이 동일한지 확인)

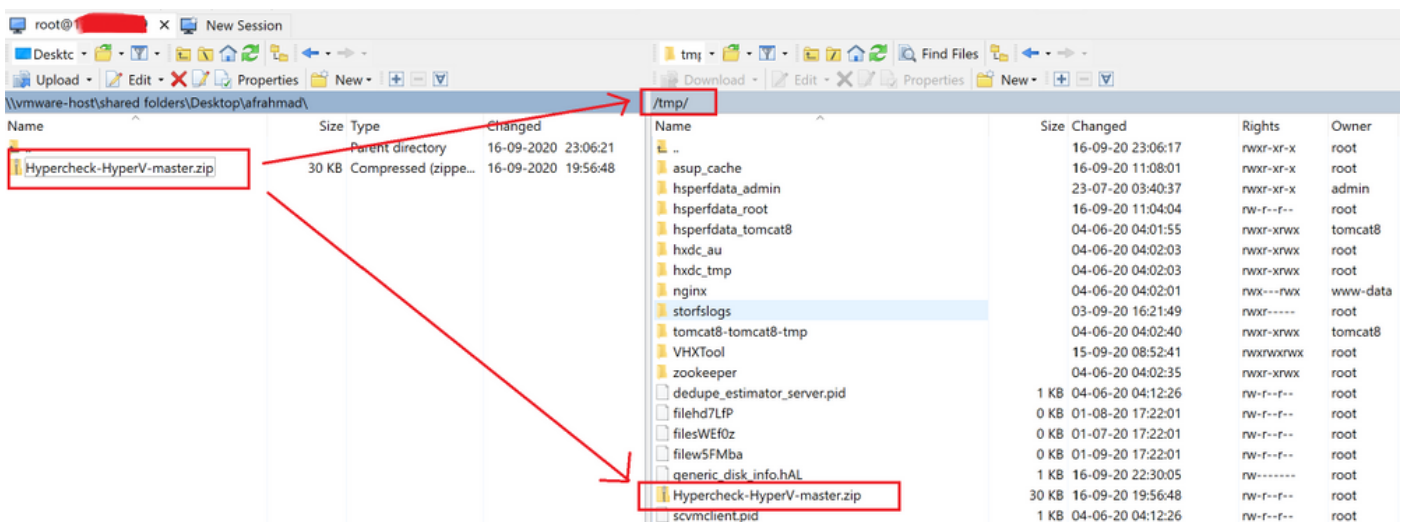
```
# scp Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

다음을 사용하여 HX 환경에서 클러스터 관리 IP를 식별합니다. - [Hyperflex 플레이북](#)

```
afrahmad@AFRAHMAD-M-C3RS Desktop $ scp Hypercheck-HyperV-master.zip root@1[REDACTED]:/tmp/  
HyperFlex StorageController 4.0(1b)  
Password:  
Hypercheck-HyperV-master.zip  
afrahmad@AFRAHMAD-M-C3RS Desktop $ █ 100% 30KB 40.9KB/s 00:00
```

Windows의 경우:

WINSCP를 사용하여 아래와 같이 파일을 전송할 수 있습니다.



3단계. Hypercheck-HyperV-master.zip의 내용 추출

cd /tmp를 입력하여 /tmp 디렉토리로 변경합니다.

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

파일을 추출하려면 **unzip Hypercheck-HyperV-master.zip**을 입력합니다.

```
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/VHXTool.py
inflating: Hypercheck-HyperV-master/prettytable.py
inflating: Hypercheck-HyperV-master/progressbar.py
root@hyper11-stc:/tmp#
```

4단계. VHXTool Python 스크립트 실행

Hypercheck-HyperV-master 디렉토리로 이동하려면 **cd Hypercheck-HyperV-master**를 입력합니다

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

스크립트를 실행하려면 **python VHXTool.py**를 입력합니다.

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

5단계. 프롬프트가 표시되면 HyperV 관리자 사용자 이름 ,비밀번호 및 클러스터 루트 비밀번호를 입력합니다

```
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:
```

참고: 스크립트 실행을 중지하려면 [CTRL+Z] 키를 사용하면 즉시 중지됩니다

6단계. Hyperflex-Hypercheck 툴은 사용자 환경의 베어 메탈에 Active Directory가 설치되어 있는지 묻는 메시지를 표시합니다.

참고: 여기서 제공된 입력(예/아니오)에 관계없이 스크립트가 계속 실행됩니다. 주의 사항 아래 메시지가 표시됩니다.

"모든 Active Directory 서버/DNS 서버는 Hyperflex 데이터 저장소 가상 컴퓨터에 중첩해서는 안 됩니다. 고객 환경에는 항상 물리적(베어 메탈) AD가 있어야 합니다."

7단계. Hyperflex-Hypercheck 툴이 검사를 시작합니다. 클러스터의 통합된 노드 수에 따라 실행이 완료되기까지 약 5~10분이 소요됩니다

8단계. 수행된 출력/확인 이해

Hyperflex-Hyperchecktool에서 수행하는 검사는 다음과 같습니다

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

9단계. 스크립트 출력 보고서를 가져옵니다. 아래와 같이 받으실 수 있습니다

Hypercheck 보고서 tar 파일은 /var/log/springpath 및 /tmp/Hypercheck-HyperV-master에 저장됩니다. 따라서 under/var/log/springpath 또는/tmp/Hypercheck-HyperV-master에서 tar 번들을 다운로드할 수 있습니다. 또는 hypercheck 보고서 tar도 포함할 storfs-support 번들을 생성하고 업로드할 수도 있습니다.

Hypercheck 보고서 tar 파일은 /var/log/springpath에 저장됩니다.

보고서 tar 파일 예 - VHX_Report_2020_08_29_08_40_20.tar이 경로에 복사됩니다.
/var/log/springpath

ls -l 입력 | grep VHX_Report - Hyperflex-Hypercheck 틀에서 생성한 파일 검토

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 로그 번들의 파일 및 로그

```
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
```

10단계: HX_YYYY_MM_DD_HH_MM_SS.tar를 내보내고 TAC와 공유합니다.

SCVM에서 **scp/sftp/ftp/tftp**를 사용하여 Hypercheck 로그를 내보내려면 원하는 방법을 사용하십시오. 아니면 VHX_Report tar 번들을 포함할 storfs 지원 번들을 다운로드하면 됩니다.

11단계. 3노드 클러스터의 샘플 VHXTool 출력

```
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
| Comments                            |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 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 /sdal, var/stv and
/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 |          | Checks the Configured Cluster
Lenient                        |          | Access Policy
+-----+
+-----+
| Check CMIP Hostname       |          | Check if the clustermanagementip
PASS                          |          | 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                        | Result
| Comments                    |
-----+-----
| 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 = hyper11-stc
| Checking domain join health of the Node. |
| Domain =
HX.LOCAL |
| |
| Distinguished Name = CN=HYPER11-
STC,OU=HYPER10,DC=hx,DC=local |
+-----+
+-----+

```

HX Controller: 10.8.16.67

Test Summary:

```

+-----+
+-----+
| Name | Result |
| Comments | |
+-----+
+-----+
| 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 /sdal, 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 = 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. |
+-----+-----+-----+-----+

```

```

+-----+
+-----+
-----+
| Name          | Status
Comments
+-----+
+-----+
-----+
| HostName      |
HYPER11
Check if the hostname is defined.
+-----+
+-----+
-----+
| Cluster Failover | Installed
Failover Cluster Manager feature is installed. | Check if the
+-----+
+-----+
-----+
| 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

189900	0	wcifs	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                                | 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.
|
|                                | 10.8.18.67          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. |

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.

툴 출력 분석 - 다음 단계

- 이 도구는 Hyperflex Systems에서 수동 명령을 실행하는 프로세스를 자동화합니다.
- 이 툴이 OK를 실행하고 모든 테스트에 PASS/COMPLETED를 제공하는 경우. HX 시스템은 스크립트가 수행한 모든 검사에 적합합니다.
- 일부 검사에서 툴이 실패하거나 성공적으로 실행되지 않는 경우 CLI 명령(아래 나열)을 사용하여 스크립트에서 수동으로 수행한 것과 동일한 검사를 Hyperflex System에서 수행할 수 있습니다.
- 이 툴에서는 이전/새/열기/해결된 주의 사항을 확인하지 않으므로 업그레이드 또는 유지 보수 활동 전에 **Hyperflex 릴리즈 노트 및 업그레이드 가이드**를 검토하는 것이 좋습니다.

참고: DO NOT 스크립트가 실행되지 않았으므로 TAC 케이스를 엽니다. 명령을 수동으로 실행하고 문제를 확인한 후 확인된 문제에 대한 SR을 여십시오.

CLI 명령

Hyperflex SCVM에서

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
```

HyperV 노드에서 -

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*
```

이 번역에 관하여

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