

Hiperverificação: Ferramenta de verificação de pré-atualização e integridade Hyperflex - HyperV

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Introduction

Este documento descreve o processo para executar a ferramenta Hypercheck Health Check & Pre-Upgrade no cluster HyperV Hyperflex. Esta ferramenta é um utilitário para executar autoverificações proativas em sistemas hyperflex para garantir sua estabilidade e resiliência. Ele ajuda a automatizar uma lista de verificações de integridade e pré-atualização em sistemas hyperflex para economizar tempo durante as operações de atualização e manutenção do hyperflex.

OBSERVAÇÃO: sempre baixe a versão mais recente da ferramenta antes de usá-la. Como a ferramenta é aprimorada com frequência, o uso de versões mais antigas pode resultar na ausência de verificações importantes.

Sistemas HX suportados

- Versões Hyperflex - 3.0, 3.5, 4.0
- Cluster Padrão Hyperflex
- Suporte somente para cluster Hyperflex no Microsoft Hyper-V

Nota: Como executar o Hypercheck no cluster hyperflex ESXi, visite-

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

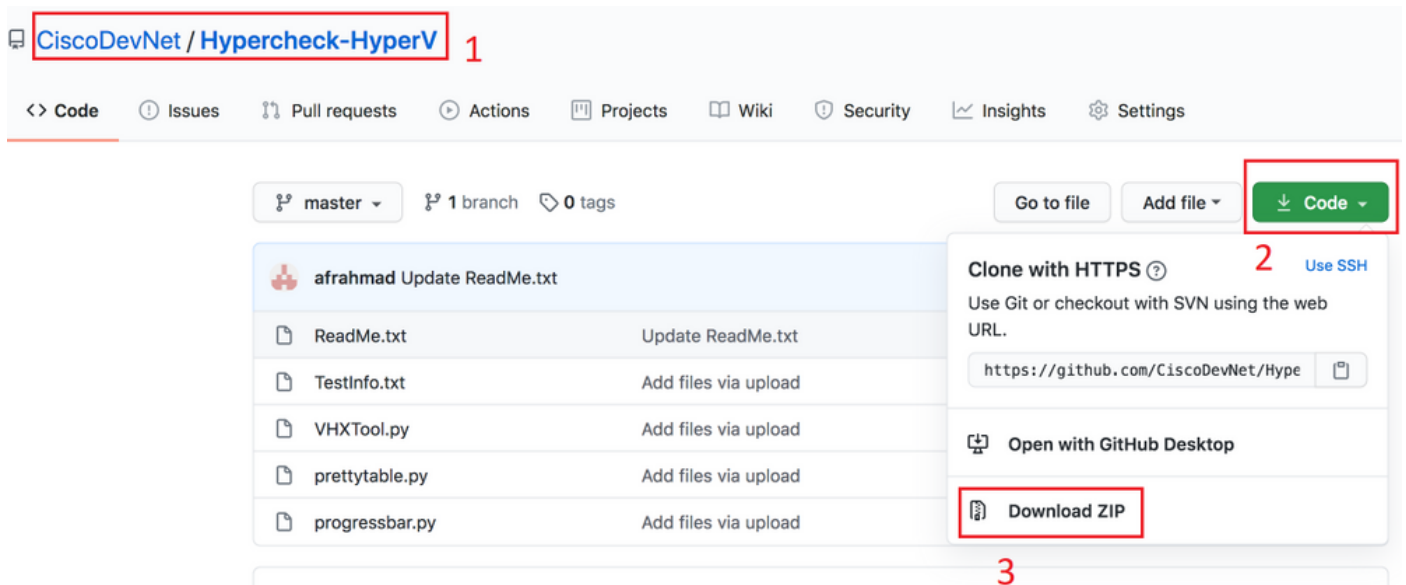
Quando usar

- Antes das atualizações do Hyperflex.
- Verificação de Integridade do Hyperflex antes e depois das Janelas de Manutenção
- Para identificar unidades/discos com falha.
- Ao trabalhar com o Cisco TAC
- Verificação de integridade proativa a qualquer momento.

How to Use

Etapa 1. Faça o download do Hyperflex-Hypercheck.zip da conta Cisco github devnet [aqui](#). Obtenha a cópia mais recente que terá os aprimoramentos e atualizações mais recentes.

NOTE: Use apenas o script baixado da conta Cisco github devnet.



Etapa 2. Carregue-o no Storage Controller VM (SCVM) com o Cluster Management IP (CMIP).

Use seu método preferido - **scp/sftp/ftp/tftp** - para copiar o arquivo Hypercheck-HyperV-master.zip para o diretório **/tmp**

Para MAC:

Executar SCP a partir da CLI (confirme se o Hyperflex-Hypercheck.zip está na mesma pasta a partir da qual você está executando scp)

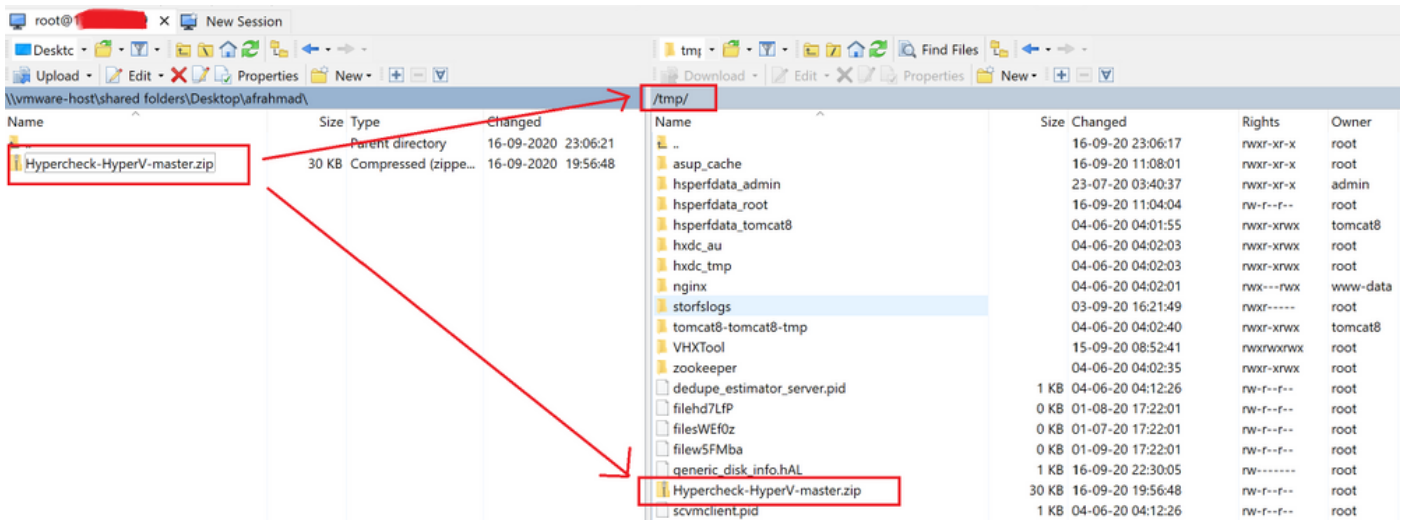
```
# scp Hypercheck-HyperV-master.zip root@<scvm-eth0:mgmtip>:/tmp/
```

Use o seguinte para identificar o IP de gerenciamento de cluster em seu ambiente HX - [Manual do Hyperflex](#)

```
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                               100% 30KB 40.9KB/s 00:00
afrahmad@AFRAHMAD-M-C3RS Desktop $
```

Para Windows:

Podemos usar o WINSOCP para transferir os arquivos como mostrado abaixo-



Etapa 3. Extraia o conteúdo de Hypercheck-HyperV-master.zip

Digite `cd /tmp` para mudar para o diretório /tmp

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

Digite `unzip Hypercheck-HyperV-master.zip` para extrair os arquivos

```
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#
```

Etapa 4. Executar o script Python VHXTTool

Digite `cd Hypercheck-HyperV-master` para ir para o diretório Hypercheck-HyperV-master

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

Digite `python VHXTTool.py` para executar o script

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

Etapa 5. Insira o nome de usuário admin do HyperV, a senha e a senha raiz do cluster quando solicitado

```
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:
```

NOTE: Para interromper a execução do script, use a tecla [CTRL+Z] e ela será interrompida imediatamente

Etapa 6. A ferramenta Hyperflex-Hypercheck solicitará que você pergunte se o Active Directory está instalado em um hardware vazio em seu ambiente.

NOTE: O script continuará a ser executado independentemente da entrada fornecida (Sim/Não) aqui. A mensagem abaixo será exibida com cuidado.

"Lembre-se de que todos os servidores Active Directory/servidores DNS não devem ser aninhados em máquinas virtuais de armazenamento de dados Hyperflex. Sempre deve haver anúncios físicos (bare metal) em seu ambiente"

Etapa 7. A ferramenta Hyperflex-Hypercheck inicia suas verificações. A execução levará de 5 a 10 minutos para ser concluída, dependendo do número de nós convergentes no cluster

Etapa 8. Entendendo Saídas / Verificações Realizadas

As seguintes verificações são realizadas por Hyperflex-Hyperchecktool

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

Etapa 9. Obtenha o relatório das saídas do script. Você pode obtê-lo como mostrado abaixo

O arquivo tar do relatório Hypercheck é salvo em `/var/log/springpath` e `/tmp/Hypercheck-HyperV-master`. Assim, você pode baixar o pacote tar de em `/var/log/springpath` ou `/tmp/Hypercheck-HyperV-master`. Alternativamente, você pode apenas gerar e carregar um pacote storf-support que também conterá o relatório hypercheck tar.

O arquivo tar do relatório de verificação de hipervisor é salvo em `/var/log/springpath`.

Exemplo de arquivo tar de relatório - `VHX_Report_2020_08_29_08_40_20.tar` é copiado para o caminho: `/var/log/springpath`

Digite `ls -l | grep VHX_Report` para revisar os arquivos criados pela ferramenta Hyperflex-Hypercheck

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
```

Arquivos e logs no pacote de log Hypercheck-

```
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
```

Etapa 10: Exporte o arquivo `HX_YYY_MM_DD_HH_MM_SS.tar` e compartilhe-o com o TAC.

Use seu método preferido para exportar os logs do Hypercheck usando `scp/sftp/ftp/tftp` do SCVM ou você pode simplesmente baixar o pacote de suporte storf-support que conterá o pacote tar `VHX_Report`.

Etapa 11. Exemplo de saída do VHXTool de um cluster de 3 nós

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
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	Comments	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 /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 = 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 /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 = 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. |
| ----- | ----- | ----- |
| | CsvNSFlt | 1 |
404900 0
| | |
| | CsvFlt | 0 |
404800 0
| | |
| | CCFFilter | 1 |
261160 0
| | |
| | storqosflt | 1 |
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
|

```

```

| npsvcctrig | 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: 10.8.16.62

```

+-----+-----+
+-----+-----+
-----+
| 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                |
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. | -----
-----
| | |
| | |
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. |
-----+-----
-----+

```

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
|

```

```

|                                     | npsvctrig                                     | 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.                                         |
+-----+-----+-----+-----+-----+-----+

```

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.

Analisar saída da ferramenta - Próximas etapas

- A ferramenta automatiza o processo de execução de comandos manuais em sistemas Hyperflex.
- Se a ferramenta executar **OK** e fornecer **PASS/COMPLETED** em todos os testes. O sistema HX é bom para todas as verificações que o script executou.
- Em situações em que a ferramenta **FALHA** em algumas verificações ou não é executada com êxito, você pode usar os comandos CLI (listados abaixo) para executar as mesmas verificações no Sistema Hyperflex feitas pelo script Manualmente.
- A ferramenta **NÃO** verifica se há avisos antigos/novos/abertos/resolvidos e, portanto, é altamente recomendável revisar as **Notas de versão e Guias de atualização do Hyperflex** antes de qualquer atividade de atualização ou manutenção.

NOTE: ERRADO abra um caso TAC porque o script não pôde ser executado. Execute os comandos manualmente, identifique o problema e abra um SR para o problema identificado.

Comandos CLI

No Hyperflex SCVM-

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
```

No Nó HyperV -

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*
```

Sobre esta tradução

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