

# VMware vSphere Health Check Report v1.3

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## Description:

This script generates a health check report similar to that of [vmwareHealthCheckScript](#) but for the new vSphere release of VMware ESX(i) 4.x and VMware vCenter 4.x and it's managed entities.

The script reports on the following:

- [New New licensing format/summary](#)
- [New EVC Enabled information](#)
- [New Cluster VM monitoring](#)
- [New Cluster Host monitoring](#)
- [New # of VMotions within a cluster](#)
- [New Datastore uncommitted info](#)
- [New CPU power management info](#)
- [New VM info \(FT, Record/Replay, Clean Poweroff\)](#)
- [New Host IPv6, FT, SSL Thumbprint](#)
- [New Host Profiles](#)
- [New vApp information](#)
- [New Distributed vSwitch information](#)
- **vCenter Build/Release**
- **Active Sessions**
- **ESX/ESXi Build/Release**
- **Cluster(s) Name/Statistics (Hosts,CPU and MEM availability, HA,DRS and DPM enabled, Resource Pools, Health)**
- **ESX/ESXi Hardware configuration (NICs/HBAs)**
- **ESX/ESXi Hardware Health Sensor via CIM**
- **ESX/ESXi State**
- **ESX/ESXi Configurations** (for detailed information, use **detail-hosts** option)
- **ESX/ESXi Multipathing Info** (only available in **host** or **detail-hosts** option)
- **ESX/ESXi Datastore summary**
- **ESX/ESXi LUN summary**
- **ESX/ESXi Portgroup summary**
- **ESX/ESXi Hostd logs**
- **CDP Summary**
- **Recent Tasks**
- **Virtual Machine summary**
- **VM Storage summary**
- **VM Network summary**
- **VM w/Snapshots**
- **VM w/Snapshot delta age**
- **VM w/RDMs**
- **VM w/NPIV enabled**
- **VM w/connected CD-ROMs**
- **VM w/connected Floppys**

For more details, please take a look at the sample reports located [here \(standard\)](#) and [here \(detailed\)](#)

## Requirements:

- [vSphere SDK for Perl](#) (formally VI Perl Toolkit) or [VMware vMA 4.0](#) (formally VIMA)
- VMware vCenter 4.x+ and/or ESX(i) 4.x+

## Usage

```
[vi-admin@rafaeli ~]$
./vmwarevSphereHealthCheck.pl
Required command option 'type' not specified.

Synopsis: ./vmwarevSphereHealthCheck.pl OPTIONS

Command-specific options:
  --cluster
    The name of a vCenter cluster
  --datacenter
    The name of a vCenter datacenter
  --logcount
    The number of lines to output from hostd logs
  --report
    The name of the report to output. Please add ".html"
extension
  --type (required)
    Type: [vcenter|datacenter|cluster|host|detail-hosts]

Common VI options:
  --config (variable VI_CONFIG)
    Location of the VI Perl configuration file
  --credstore (variable VI_CREDSTORE)
    Name of the credential store file defaults to
<HOME>/.vmware/credstore/vicredentials.xml on Linux and
<APPDATA>/VMware/credstore/vicredentials.xml on Windows
  --encoding (variable VI_ENCODING, default 'utf8')
    Encoding: utf8, cp936 (Simplified Chinese), iso-8859-1
(German), shiftjis (Japanese)
  --help
    Display usage information for the script
  --passthroughauth (variable VI_PASSTHROUGHAUTH)
    Attempt to use pass-through authentication
  --passthroughauthpackage (variable VI_PASSTHROUGHAUTHPACKAGE,
default 'Negotiate')
    Pass-through authentication negotiation package
  --password (variable VI_PASSWORD)
    Password
  --portnumber (variable VI_PORTNUMBER)
    Port used to connect to server
  --protocol (variable VI_PROTOCOL, default 'https')
```

```
Protocol used to connect to server
--savesessionfile (variable VI_SAVESESSIONFILE)
File to save session ID/cookie to utilize
--server (variable VI_SERVER, default 'localhost')
VI server to connect to. Required if url is not present
--servicepath (variable VI_SERVICEPATH, default
'/sdk/webService')
Service path used to connect to server
--sessionfile (variable VI_SESSIONFILE)
File containing session ID/cookie to utilize
--url (variable VI_URL)
VI SDK URL to connect to. Required if server is not present
--username (variable VI_USERNAME)
Username
--verbose (variable VI_VERBOSE)
Display additional debugging information
--version
Display version information for the script
```

## Supported Use Cases:

1) This will collect information about all cluster(s)/host(s) providing vCenter Server:

```
./vmwarevSphereHealthCheck.pl
--server VC_SERVER --username VC_USERNAME --password VC_PASSWORD
--type vcenter
```

2) This will collect information about a specific datacenter provided with vCenter Server:

```
./vmwarevSphereHealthCheck.pl
--server VC_SERVER --username VC_USERNAME --password VC_PASSWORD
--type datacenter --datacenter DATACENTER_NAME
```

3) This will collect information about a specific cluster provided with vCenter Server:

```
./vmwarevSphereHealthCheck.pl
--server VC_SERVER --username VC_USERNAME --password VC_PASSWORD
--type cluster --cluster CLUSTER_NAME
```

4) This will collect information about a specific host provided with ESX/ESXi Server:

```
./vmwarevSphereHealthCheck.pl
--server ESX_ESXi_SERVER --username ESX_ESXi_USERNAME --password
ESX_ESXi_PASSWORD --type host
```

5) This will collect detail information about all ESX/ESXi hosts under vCenter (for datacenter/cluster specific, please look at option 1-3).

This option is meant to provide a report similar to that of [esxhealthscript](#) within the capabilities of the VI API utilizing the VI Perl Toolkit. For a high level view of your VMware environment, please use the other options, as this pertains to detail configurations of your hosts.

```
./vmwarevSphereHealthCheck.pl
```

```
-server VC_SERVER --username VC_USERNAME --password VC_PASSWORD  
--type detail-hosts
```

To specify the number of the latest lines in the hostd logs, use --logcount [number\_of\_lines]

(e.g.)

```
./vmwarevSphereHealthCheck.pl  
-server VC_SERVER --username VC_USERNAME --password VC_PASSWORD  
--type detail-hosts --logcount 20
```

## Custom Configurations

Edit the following at the top of the script to configure the warning levels for the various resource consumptions (disk,memory,cpu):

```
#####  
# resource consumption warnings  
#####  
# yellow < 30 %  
my $yellow_warn = 30;  
  
# orange < 15 %  
my $orange_warn = 15;  
  
# red < 10%  
my $red_warn = 10;
```

Edit the following at the top of the script to configure the number of days aged for a snapshot delta file:

```
#####  
# vm snapshot age warnings  
#####  
# yellow < 15 days  
my $snap_yellow_warn = 15;  
  
# orange < 30 days  
my $snap_orange_warn = 30;  
  
# red < 60 days+  
my $snap_red_warn = 60;
```

## Changes

```
#####
```

11-23-2009 - v1.3

Fixes:

-Fixed snmp output, small typo in the script

#####

05-24-2009 - v1.2

**Fixes:**

-Minor fix in nDVS that was causing script to halt

#####

05-04-2009 - v1.1

**Enhancements:**

-Display additional VM Storage details (committed,uncommitted and unshared)

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## TO-DO/WIP

-None atm

## Known Issues

-None atm