
VMware vSAN 售后最佳实践

第二部：运维检查清单



VMware GSS-China vSAN Team

2018-01

版本控制				
日期	版本号	修改人	适用范围	备注
201711	1.0	Chang Wang	5.5 6.0 6.1 6.2 6.5 6.6	
201801	1.1	Chang Wang	5.5 6.0 6.1 6.2 6.5 6.6	

文档分为两个章节：运维检查清单以及部分配套截图和 KB。

其中：★表示为必须要满足

第一章：运维检查清单

运维检查清单按照下面的结构进行划分：



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类别	序号	项目	登录方式	参考文档/备注
第一步 准备工作	1	使用 Web Client 登录 vCenter	https://vcenteripaddressorfqdn	https://docs.vmware.com/en/VMware-vSphere/6.0/com.vmware.vsphere.vcenterhost.doc/GUID-CE128B59-E236-45FF-9976-D134DADC8178.html
	2	使用 Web Client 登录 vCenter 管理界面	https://vcenteripaddressorfqdn:5480	https://docs.vmware.com/cn/VMware-vSphere/6.5/com.vmware.vsphere.vcsa.doc/GUID-9831B635-DFFA-40FA-9DA9-CEF8A1729E54.html
	3	SSH 登录到 vCenter		http://pubs.vmware.com/vsphere-6-5/index.jsp?topic=%2Fcom.vmware.vcli.getstart.doc%2FGUID-C3A44A30-EEA5-4359-A248-D13927A94CCE.html
	4	SSH 登录到 RVC	vCenter 命令行下执行: rvc, 输入用户名密码	https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/products/vsan/vmware-ruby-vsphere-console-command-reference-for-virtual-san.pdf
	5	SSH 登录到每台 vSAN 节点		Using ESXi Shell in ESXi 5.x and 6.x (2004746)
	6	登录主机管理界面		例如 HP iLO 或者 Dell iDrac
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GSS-China vSAN Team

VMware GSS-China vSAN Team v1.1

类别	序号	项目	UI 界面	命令行	结果
第二步基础检查	1	检查 vCenter 版本	登录 vCenter-Summary-版本信息	VC: vpxd -v	
	2	检查 ESXi 主机版本	登录 vCenter-主机-Summary	ESXi: esxcli system version get	确认所有的主机版本一致
	3	检查 ESXi 和 vCenter 是否满足 vSAN 的要求			确认 ESXi 和 vCenter 版本符合 vSAN 兼容要求, 见截图 1 https://www.vmware.com/resources/compatibility/sim/interop_matrix.php
	4	检查 vCenter 运行状态	登录 vCenter 管理界面-健康状态		见截图 2
	5	检查 vCenter 服务状态	登录 vCenter-系统信息-节点-相关对象	VC: service-control --status	见截图 3
	6	检查 vSAN 集群成员数量是否正常	登录 vCenter-集群-配置-磁盘管理-确认所有主机都在列表里	ESXi: esxcli vsan cluster get grep "Sub-Cluster Member Count"	确认节点数量正确。
	7	检查集群告警信息	登录 vCenter-集群-监控-告警		记录集群告警信息。
	8	检查集群主机负载 (CPU)	登录 vCenter-集群-主机		确认所有主机负载均衡。
	9	检查集群主机负载 (内存)	登录 vCenter-集群-主机		确认所有主机负载均衡。
	10	检查 vSAN Datastore 容量状态	登录 vCenter-集群-监控-vSAN-容量	ESXi: df -h	确认所有使用率没有超过 70%。VMware 建议保留 30% 的使用空间, 参考 Virtual SAN 运行状况服务 - 物理磁盘运行状况 - 磁盘容量 (2141542)
	11	检查 vSAN 集群所有磁盘的使用率	登录 vCenter-集群-监控-vSAN-物理磁盘	RVC: vsan.disks_stats	确认没有单块磁盘使用率过高, 见截图 4。
	12	检查 vSAN 集群健康状态	登录 vCenter-集群-监控-vSAN-运行状况	ESXi: esxcli vsan health cluster list	确认没有黄色或者红色的告警。
	13	检查 vSAN 网络分区状态	登录 vCenter-集群-配置-磁盘管理-网络分区		确认所有的主机在同一个分区下, 见截图 5。
	14	检查 vSAN 集群默认的存储策略	登录 vCenter-Policies and Profiles--VM 存储策略	ESXi: esxcli vsan policy getdefault	确认默认存储策略符合预期。
	15	检查 vSAN 集群的磁盘添加方式	登录 vCenter-集群-配置-vSAN	ESXi: esxcli vsan storage automode get	确认为手动方式, VMware 建议使用手动模式, 见截图 6
	16	检查 vSAN 集群磁盘格式	登录 vCenter-集群-配置-磁盘管理	ESXi: esxcli vsan storage list grep version	确认符合兼容性要求。 Understanding vSAN on-disk format versions and compatibility (2145267)
	17	检查集群满足“一台主机故障”场景	登录 vCenter-集群-监控-vSAN-运行状况-限制	RVC: vsan.whatif_host_failures	确认没有告警, 见截图 7。
	18	检查所有主机都安全退出维护模式		ESXi: esxcli vsan cluster get grep Maintenance	确认为 OFF。

	19	检查 vSAN HCL 数据库版本	登录 vCenter-集群-配置-健康和性能		确认已经更新到最新的版本，见截图 8。
类别	序号	项目	UI 界面	命令行	结果
第三步 主机	1	检查主机告警信息	登录 vCenter-主机-监控-告警		记录主机告警信息。
	2	检查主机名		ESXi: uname -a	确认主机名正确，避免使用 Localhost。
	3	检查主机运行时间	登录 vCenter-主机-Summary	ESXi: uptime	确认主机运行时间正确。
	4	检查主机硬件状态	登录 vCenter-主机-监控-硬件状态		确认没有硬件告警信息，见截图 9。
	5	检查主机启动盘分区使用率		ESXi: df -h	确认没有过高的使用率，见截图 10。
	6	检查 ramdisk 状态		ESXi: vdf -h	确认没有过高的使用率，见截图 11。
	7	检查主机 syslog 配置	登录 vCenter-主机-配置-高级系统配置-“Syslog.global.logDir”	ESXi: esxcli system syslog config get	确认 syslog 没有存储在 vSAN Datastore 上。不支持日志文件存储在 vSAN Datastore。
	8	检查主机 vSAN trace 文件的配置		ESXi: esxcli vsan trace get	确认 vSAN Trace 没有存储在 vSAN Datastore 上。不支持 vSAN Trace 存储在 vSAN Datastore。
类别	序号	项目	UI 界面	命令行	结果
第四步 存储	1	检查主机 vSAN 磁盘数量	登录 vCenter-集群-配置-磁盘管理	ESXi: esxcli vsan storage list grep Device	确认符合实际数量。
	2	检查主机 vSAN 磁盘挂载状态	登录 vCenter-集群-配置-磁盘管理	ESXi: esxcli vsan storage list grep CMMDS	确认所有磁盘都是健康和挂载状态，见截图 12。
	3	检查主机 vSAN 磁盘映射状态	登录 vCenter-集群-配置-磁盘管理	ESXi: vdq -iH	确认符合实际分配情况。
	4	检查 Raid 控制器型号	登录 vCenter-主机-配置-Storage Adapters-Properties	ESXi: esxcfg-scsidevs -a	确认符合 vSAN HCL 要求，见截图 13 https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vsan
	5	检查 Raid 控制器驱动固件	登录 vCenter-主机-配置-Storage Adapters-Properties	ESXi: /usr/lib/vmware/vmkmgmt_keyval/vmkmgmt_keyval -a	确认符合 vSAN HCL 要求，见截图 13 https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vsan
	6	检查 Raid 控制器下的磁盘	登录 vCenter-主机-配置-Storage Adapters-Devices	ESXi: esxcfg-scsidevs -A	确认符合 vSAN HCL 要求，见截图 13 https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vsan
	7	检查 Raid 控制器/SSD 信息	登录主机管理界面		例如 HP iLO 或者 Dell iDrac，确认相关版本符合 vSAN HCL 要求，例如 SSD 固件。
类别	序号	项目	UI 界面	命令行	结果
第五	1	检查网卡型号	登录 vCenter-主机-配置-Physical Adapters	ESXi: esxcfg-nics -l	确认符合 ESXi HCL 要求。 https://www.vmware.com/resources/compatibility/search.php?deviceCategory=io

步 网 络	2	检查网卡驱动固件		ESXi: ethtool -S vmnicX	确认符合 ESXi HCL 要求。 https://www.vmware.com/resources/compatibility/search.php?deviceCategory=io
	3	检查网卡 UP/Down 记录		ESXi: grep vmnic /var/log/vobd.log egrep -e "up down"	如果段时间内有过多的 Up/Down 记录需要进一步调查。
	4	检查网卡报错		ESXi: esxcli network nic stats get -n vmnicX 或者 ethtool -S vmnicX	确认 errors 和 dropped 的数值没有短时间内持续增加。
	5	检查主机所有 vmk 配置	登录 vCenter-主机-配置-VMKernel adapters	ESXi: esxcli network ip interface list / esxcli network ip interface ipv4 get	确认 ip 地址和子网掩码配置正确。
	6	检查主机虚拟交换机状态	登录 vCenter-主机-配置-Virtual switches	ESXi: esxcfg-vswitch -l	确认虚拟交换机配置符合预期。
	7	检查主机上 vSAN 使用的单播状态		ESXi: esxcli vsan cluster unicastagent list	确认包含除本身以外的其他所有节点。
	8	检查标准虚拟交换机的 MTU	登录 vCenter-主机-配置-Virtual switches-编辑	ESXi: esxcfg-vswitch -l grep MTU -A1	记录 MTU 数值, 结合第(11)项
	9	检查分布式虚拟交换机的 MTU	登录 vCenter-网络-分布式交换机-配置-属性	ESXi: esxcfg-vswitch -l grep MTU -A1	记录 MTU 数值, 结合第(11)项
	10	检查 vmk 的 MTU	登录 vCenter-网络-分布式交换机-配置-属性	ESXi: esxcfg-vswitch -l 和 esxcli network ip interface list	记录 MTU 数值, 结合第(11)项
	11	检查物理交换机配置的 MTU, 确认于第(8)(9)(10)项查到的 MTU 相同			确认 vswitch 和 vmk interface MTU 是一致的, 并且和物理交换机配置的 MTU 一致。
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类别	步骤	内容	参考文档/备注
第六步 后续工作	1	拨打服务热线或者通过 My VMware 网站创建 Service Request (China) 400 816 0688/800 915 1919	https://www.vmware.com/support/contacts/china.html 见截图 14
	2	请按照下方的表格 1 收集需要的日志	How to collect vSAN support logs and upload to VMware (2072796)
	3	把日志上传 VMware FTP 服务器	Uploading diagnostic information for VMware (1008525)
	4	准备 Webex 网络环境（推荐）	
	5	保持手机畅通	
	6	关于服务响应时间，请参考 VMware 网站	https://www.vmware.com/support/services.html
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	主机日志	RVC日志	vCenter日志	主机性能日志	vSAN性能数据	Hostd dump	截图(包含名称时间点)
VM无法启动/数据丢失	★	★	○	○	○	○	●
vSAN使用/管理/界面相关问题	★	★	★	○	○	○	●
健康检查报错	★	★	★	○	○	○	●
主机无响应/断开连接	★	○	○	○	○	●	●
磁盘/磁盘组/硬件相关问题	★	★	○	○	○	○	●
PSOD	★	○	○	○	○	○	●
无法创建VM	★	●	★	○	○	○	●
Storage Provider	★	○	★	○	○	○	●
元数据状态异常	★	★	●	○	○	○	●
vSAN性能问题	★	★	○	★	★	○	●
主机性能问题	★	★	○	★	○	○	●
延伸集群/ROBO集群	★	○	★	○	○	○	●
		★	需要提供				
		●	建议提供				
		○	不需要提供				

表格 1-根据不同的故障场景收集对应的日志信息

第二章：部分配套截图和 KB

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Compatible

Incompatible

Not supported

Interoperability

Solution/Database Interoperability

Upgrade Path

1. Select a Solution

If you do not know the solution's version leave it blank.

VMware vSAN*All versions

2. Add Platform/Solution

Add platforms/solutions to see if they are compatible with the selected solution.

VMware vSphere Hypervisor (ESXi)All versions

+Add Another Solution

Hide empty rows/columns

Hide unsupported releases

CopyCSVPrint

Collapse All

VMware vSAN*	6.6.1	6.6	6.5	6.2	6.1	6.0	5.5
VMware vSphere Hypervisor (ESXi)							
6.5 U1							
6.5.0							
6.0 U3							
6.0.0 U2							
6.0.0 U1							
6.0.0							
5.5 U3							
5.5 U2							
5.5 U1							

VMware Internal Tools, Multi-Solution Interoperability and Multi-Solution Upgradepath are also available for your reference.

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截图 1-基础检查-检查 ESXi 和 vCenter 是否满足 vSAN 的要求 (vSAN-ESXi)

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Interoperability

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1. Select a Solution

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VMware vSAN*

All versions

2. Add Platform/Solution

Add platforms/solutions to see if they are compatible with the selected solution.

VMware vCenter Server

All versions

+ Add Another Solution

☒ Hide empty rows/columns

☒ Hide unsupported releases

Copy

CSV

Print

Collapse All

VMware vSAN*	6.6.1	6.6	6.5	6.2	6.1	6.0	5.5
VMware vCenter Server							
6.5 U1							
6.5.0							
6.0 U3							
6.0.0 U2							
6.0.0 U1							
6.0.0							
5.5 U3							
5.5 U2							
5.5 U1							

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截图 1-基础检查-检查 ESXi 和 vCenter 是否满足 vSAN 的要求（vSAN-vCenter）

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VMware Product Interoperability Matrices

Interoperability Solution/Database Interoperability Upgrade Path

1. Select a Solution
If you do not know the solution's version leave it blank.

VMware vCenter Server All versions

2. Add Platform/Solution
Add platforms/solutions to see if they are compatible with the selected solution.

VMware vSphere Hypervisor (ESXi)

6.5 U1 6.5.0 6.0 U3 6.0.0 U2 6.0.0 U1 6.0.0 5.5 U3 5.5 U2 5.5 U1 5.5

+Add Another Solution

Hide empty rows/columns Hide unsupported releases

Copy CSV Print Collapse All

VMware vCenter Server	6.5 U1	6.5.0	6.0 U3	6.0.0 U2	6.0.0 U1	6.0.0	5.5 U3	5.5 U2	5.5 U1	5.5
VMware vSphere Hypervisor (ESXi)										
6.5 U1	✓	✓	---	---	---	---	---	---	---	---
6.5.0	✓	✓	---	---	---	---	---	---	---	---
6.0 U3	✓	✓	✓	✓	---	---	---	---	---	---
6.0.0 U2	✓	✓	✓	✓	---	---	---	---	---	---
6.0.0 U1	✓	✓	✓	✓	✓	---	---	---	---	---
6.0.0	✓	✓	✓	✓	✓	✓	---	---	---	---
5.5 U3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.5 U2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.5 U1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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截图 1-基础检查-检查 ESXi 和 vCenter 是否满足 vSAN 的要求 (vCenter-ESXi)

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vCenter Server Appliance

Navigator

- Summary
- Access
- Networking
- Time
- Update
- Administration
- Syslog Configuration
- CPU and Memory
- Database

Summary

Hostname: vcsa65.chang.local

Type: vCenter Server with an embedded Platform Services Controller

Product: VMware vCenter Server Appliance

Version: 6.5.0.5100

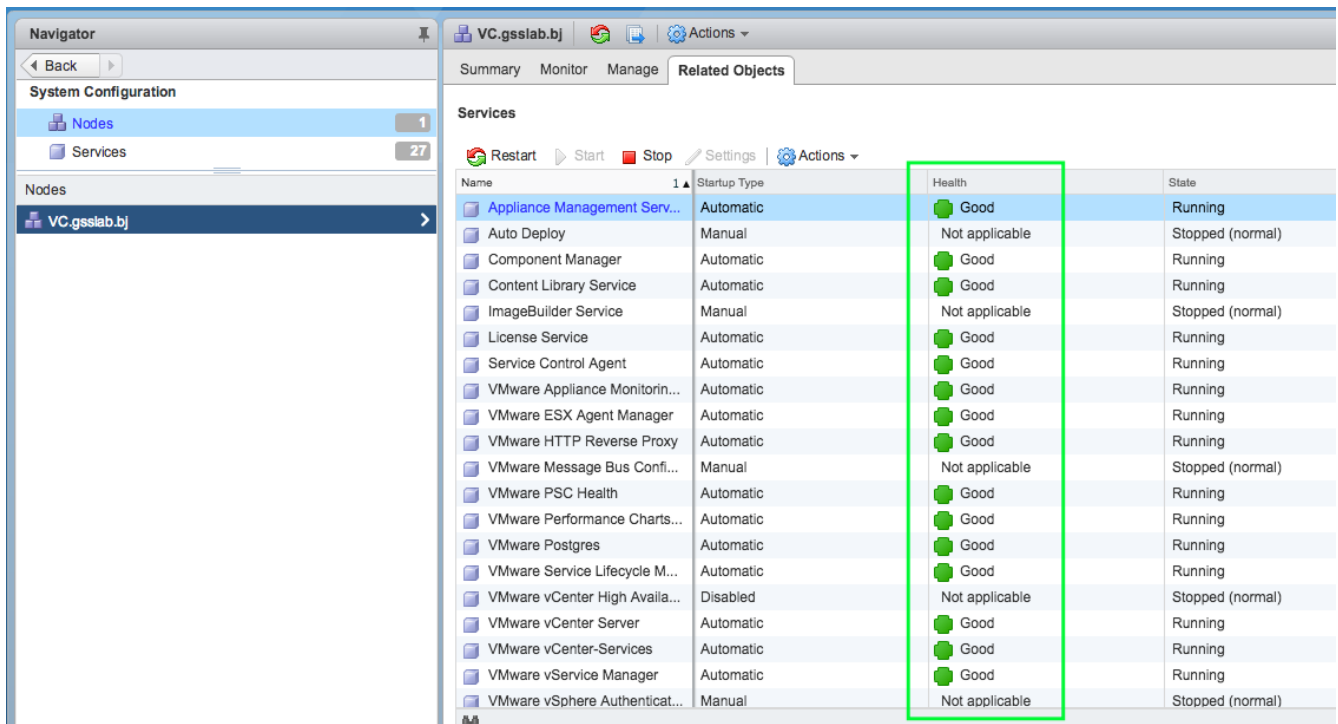
Health Status

Overall Health	Good
Last Health Check	2017/11/25 下午3:47:35
CPU	Good
Memory	Good
Database	Good

Health Messages

No Messages Available.

截图 2-基础检查-检查 vCenter 运行状态



截图 3-基础检查-检查 vCenter 服务状态-图形界面

```

root@VC [ ~ ]# service-control --status
Running:
  applmgmt lwsmd pschealth vmafdd vmcad vmdird vmdnsd vmonapi vmware-cis-license vmware-cm vmware-conten
t-library vmware-eam vmware-perfcharts vmware-psc-client vmware-rhttpproxy vmware-sca vmware-sps vmware
-statsmonitor vmware-sts-idmd vmware-std vmware-updatemgr vmware-vapi-endpoint vmware-vmon vmware-vpos
tgres vmware-vpxd vmware-vpxd-svcs vmware-vsan-health vmware-vsm vsphere-client vsphere-ui
Stopped:
  vmcam vmware-imagebuilder vmware-mbcs vmware-netdumper vmware-rbd-watchdog vmware-vcha

```

截图 3-基础检查-检查 vCenter 服务状态-命令行

```
/localhost/stc/computers> vsan.disks_stats stc
```

DisplayName	Host	isSSD	Num Comp	Capacity Total	Used	Reserved	Status Health
mpx.vmhba1:C0:T1:L0	192.168.20.29	SSD	0	8.00 GB	0.00 %	0.00 %	OK (v3)
mpx.vmhba1:C0:T2:L0	192.168.20.29	MD	2	15.74 GB	27.92 %	25.63 %	OK (v3)
mpx.vmhba1:C0:T3:L0	192.168.20.29	MD	4	15.74 GB	32.26 %	25.68 %	OK (v3)
mpx.vmhba1:C0:T1:L0	192.168.20.30	SSD	0	8.00 GB	0.00 %	0.00 %	OK (v3)
mpx.vmhba1:C0:T3:L0	192.168.20.30	MD	3	15.74 GB	32.26 %	25.66 %	OK (v3)
mpx.vmhba1:C0:T2:L0	192.168.20.30	MD	3	15.74 GB	27.92 %	25.66 %	OK (v3)

截图 4-基础检查-检查 vSAN 集群所有磁盘的使用率

Disk Group	Disks in Use	State	vSAN Health ...	Type	Fault Domain	Network Partit...	Disk Format Version
10.117.22.12	3 of 5	Connected	Healthy			Group 1	
Disk group (020000000055cd2e414d4b3abb494e54454c20)	3	Mounted	Healthy	Hybrid		Group 1	5
10.117.22.13	5 of 5	Connected	Healthy			Group 1	
Disk group (020000000055cd2e414d4b3af4494e54454c20)	5	Mounted	Healthy	Hybrid		Group 1	5
10.117.22.11	5 of 5	Connected	Healthy			Group 1	
Disk group (020000000055cd2e404c3386aa494e54454c20)	5	Mounted	Healthy	Hybrid		Group 1	5

截图 5-基础检查-检查 vSAN 网络分区状态

vSAN is Turned ON	
Add disks to storage	Manual
Deduplication and compression	Disabled
Encryption	Disabled
Networking mode	Unicast

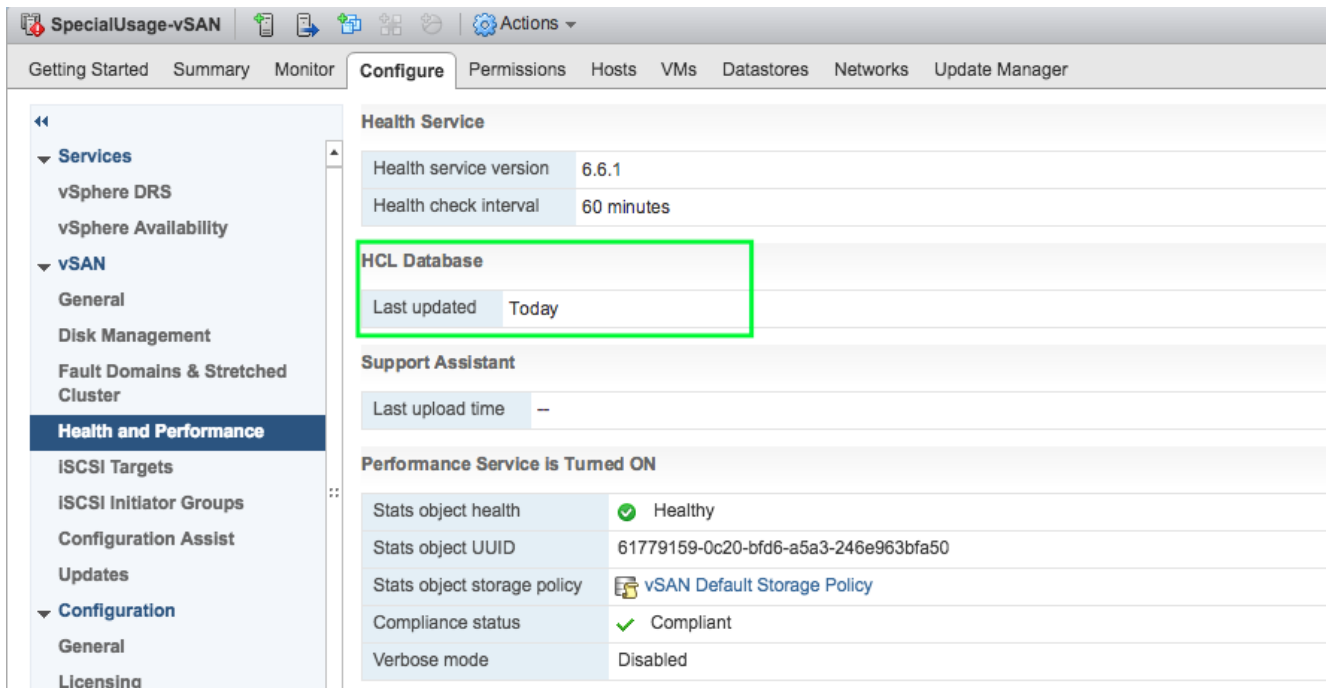
On-disk Format Version	
Disk format version	✓ All 13 disks on version 5.0

截图 6-基础检查-检查 vSAN 集群的磁盘添加方式

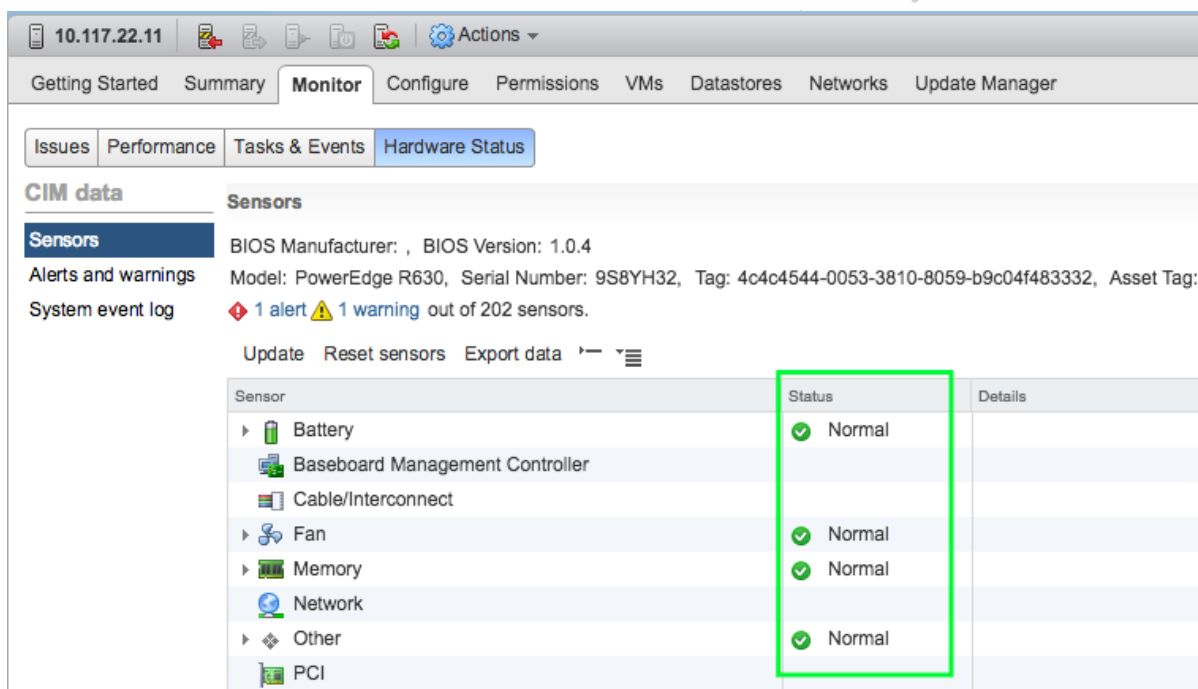
Test Result	Test Name
✓ Passed	Physical disk
✓ Passed	Data
✓ Passed	Limits
✓ Passed	After 1 additional host failure
✓ Passed	Current cluster situation
✓ Passed	Host component limit
✓ Passed	Hardware compatibility

Resource	Utilization	Health
Component utilization	3% (665 of 18000)	✓ Passed
Disk space utilization	24% (1979GB of 8010GB)	✓ Passed
Read Cache reservations	0% (0.0GB of 1551.5GB)	✓ Passed

截图 7-基础检查-检查集群满足“一台主机故障”场景



截图 8-基础检查-检查 vSAN HCL 数据库版本



截图 9-主机-检查主机硬件状态

```
[root@cn-tse-d08:~] df -h
Filesystem      Size  Used Available Use% Mounted on
VMFS-5          272.0G  4.8G   267.2G    2% /vmfs/volumes/cn-tse-d08-datastore-1
VMFS-6           9.8G   1.4G    8.3G   14% /vmfs/volumes/Datastore-Test
vfat            249.7M 156.0M   93.7M   62% /vmfs/volumes/a706f375-7b17e6af-bc12-947ccd82a8
vfat             4.0G   61.4M    3.9G    1% /vmfs/volumes/593830d4-b0fb053a-6dec-246e962f8108
vfat            249.7M 148.3M  101.5M   59% /vmfs/volumes/2c796c7d-b0760ffb-6fba-4c09fe82a8da
vfat            285.8M 205.8M   80.0M   72% /vmfs/volumes/593830cb-f2954929-de11-246e962f8108
vsan            12.0T   3.2T    8.8T   26% /vmfs/volumes/cn-tse-vsanDatastore
```

截图 10-主机-检查主机启动盘分区使用率

Ramdisk	Size	Used	Available	Use%	Mounted on
root	32M	924K	31M	2%	---
etc	28M	344K	27M	1%	---
opt	32M	4K	31M	0%	---
var	48M	2M	45M	5%	---
tmp	256M	64K	255M	0%	---
iofilters	32M	0B	32M	0%	---
vsantraces	300M	204M	95M	68%	---
hostdstats	1303M	3M	1299M	0%	---

截图 11-主机-检查 ramdisk 状态

SpecialUsage-vSAN

Getting Started Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Update Manager

Services

- vSphere DRS
- vSphere Availability
- vSAN
 - General
 - Disk Management**
 - Fault Domains & Stretched Cluster
 - Health and Performance
 - ISCSI Targets
 - ISCSI Initiator Groups
 - Configuration Assist
 - Updates
- Configuration
 - General
 - Licensing
 - VMware EVC
 - VM/Host Groups
 - VM/Host Rules

Disk Groups

Disk Group	Disks in Use	State	vSAN Health ...	Type	Fault Domain	Network
10.117.22.12	3 of 5	Connected	Healthy			Group
Disk group (0200000000055cd2e414d4b3abb494e54454c20)	3	Mounted	Healthy	Hybrid		Group
10.117.22.13	5 of 5	Connected	Healthy			Group
Disk group (0200000000055cd2e414d4b3af4494e54454c20)	5	Mounted	Healthy	Hybrid		Group
10.117.22.11	5 of 5	Connected	Healthy			Group
Disk group (0200000000055cd2e404c3386aa494e54454c20)	5	Mounted	Healthy	Hybrid		Group

10.117.22.12: Disks

All Actions

Name	Drive Type	Disk Tier	Capacity	vSAN Health Status	State
Local ATA Disk (naa.55cd2e414d4b3abb)	Flash	Cache	1.09 TB	Healthy	Mounted
Local SEAGATE Disk (naa.5000c5009feba637)	HDD	Capacity	1.82 TB	Healthy	Mounted
Local SEAGATE Disk (naa.5000c5009feba8fb)	HDD	Capacity	1.82 TB	Healthy	Mounted

截图 12-存储-检查主机 vSAN 磁盘挂载状态

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VMware Compatibility Guide

Search Compatibility Guide: (e.g. compatibility or esx or 3.0) All Listings Search

Step 1 What are you looking for: vSAN Compatibility Guides - Help Current Results: 0

Need Help? Try out the vSAN ReadyNode™ Configurator.

STEP 1: Refer to the 'vSAN Hardware Quick Reference Guide' for guidance on how to build a vSAN ReadyNode.

STEP 2: To build a vSAN ReadyNode:
Select your vSAN ReadyNode of choice based on following certified vSAN ReadyNodes.

vSAN ReadyNode Types:
All
vSAN ReadyNode Supported Releases:
All
vSAN 6.6
ESXi 6.5 U1
ESXi 6.5
ESXi 6.0 U3
Pre-Install Options:
ESXi Pre-Installed
ESXi Not Pre-Installed

vSAN ReadyNode Vendors:
All
Cisco
Dell
Ericsson AB
Fujitsu
Hewlett Packard Enterprise
vSAN ReadyNode Generation:
All
Gen1 - 6G
Gen2 - 12G
Gen3 - Xeon Scalable

vSAN ReadyNode Profile:
All
HV-2 Series
HV-4 Series
HV-6 Series
HV-8 Series
AF-6 Series
vSAN ReadyNode Server Type:
All
1U
2U
Blade
Rackmount
Raw Storage Capacity (TB):
All

Update and View Results Reset

STEP 3: To customize vSAN ReadyNode, refer to the guidance described [here](#).

Step 2
VMware strongly recommends using certified vSAN ReadyNodes™ that are validated to provide predictable performance and scalability to your vSAN deployment. If you would still like to build your own vSAN with certified components, then click [Build Your Own based on Certified Components](#).

To download vSAN HCL in JSON format for offline use of vSAN health checks [Click Here](#)

Please make sure to decompress the file before usage.

Looking for information on VMware product compatibility by version? [See the Product Interoperability Matrix](#)

Looking for help with sizing your environment for vSAN? Start with a Partner-led VSAN Assessment to validate vSAN's benefits for your organization. Go to our [VSAN Assessment Tool](#)

Looking for help with sizing your environment for vSAN? Go to our [Sizing and TCO calculator](#)

Looking for products verified and supported by partners? [Partner Verified and Supported Products](#) (MPT metro-distance storage clustering solutions updates)

Interested in certifying a new vSAN ReadyNode that is not listed here or do you have queries about the vSAN certification process? Please email vsan-hcl@vmware.com

Are you a VMware developer? [Check out the VMware \(code\)](#).

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截图 13-存储-检查 Raid 控制器型号（步骤 1 和步骤 2）

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Compatibility Guides

Help

Current Results: 0

Need Help? Try out the vSAN ReadyNode™ Configurator.

STEP 1: Refer to the 'vSAN Hardware Quick Reference Guide' for guidance on how to build a vSAN Ready Node.

STEP 2: There are two ways to build a vSAN ReadyNode:
1. VMware strongly recommends using Certified vSAN ReadyNodes™ that are validated to provide predictable performance and scalability for your vSAN deployment.
2. If you would still like to build your own vSAN, then you can do so using the following certified components, and you must confirm that all your components including drives are supported by the OEM server manufacturer.

Step-3

Search For:

IO Controller

HIO

SCSI

Brand Name:

All

Adaptec by PMC

Cisco

DELL

Fujitsu

Hewlett Packard Enterprise

HP

Huawei Technologies Co. Ltd.

Keyword:

Supported Releases:

All

vSAN 6.6

ESXi 6.5 U1

ESXi 6.5

ESXi 6.0 U3

ESXi 6.0 U2

ESXi 6.0 U1

ESXi 6.0

ESXi 5.5 U3

ESXi 5.5 U2

ESXi 5.5 U1

Device Type:

All

SAS

SAS RAID

SAS/SATA RAID

SATA

vSAN Type:

All

Posted Date Range:

All

Update and View Results

Reset

To download vSAN HCL in JSON format for offline use of vSAN health checks [Click Here](#)
Please make sure to decompress the file before usage.

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截图 13-存储-检查 Raid 控制器型号 (步骤 3)

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France

Germany

Ireland

Israel

Italy

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