



Failover Cluster Validation Report

Node: client1.cloud.com
Node: client3.cloud.com
Started 5/13/2017 5:52:14 PM
Completed 5/13/2017 6:04:35 PM

The Validate a Configuration Wizard must be run after any change is made to the configuration of the cluster or hardware. For more information, see <http://go.microsoft.com/fwlink/?LinkId=139565>.

Results by Category

Name	Result Summary	Description
Inventory		Success
Network		Warning
Storage		Success
System Configuration		Success




Inventory

Name	Result	Description
List BIOS Information		Success
List Environment Variables		Success
List Fibre Channel Host Bus Adapters		Success
List iSCSI Host Bus Adapters		Success
List Memory Information		Success
List Operating System Information		Success
List Plug and Play Devices		Success
List Running Processes		Success
List SAS Host Bus Adapters		Success
List Services Information		Success
List Software Updates		Success
List System Drivers		Success
List System Information		Success
List Unsigned Drivers		Success














Network









Name	Result	Description
List Network Binding Order		Success

Validate Cluster Network Configuration		Success
Validate IP Configuration		Warning
Validate Network Communication		Warning
Validate Windows Firewall Configuration		Success

Storage

Name	Result	Description
List All Disks		Success
List Potential Cluster Disks		Success
Validate Disk Access Latency		Success
Validate Disk Arbitration		Success
Validate Disk Failover		Success
Validate File System		Success
Validate Microsoft MPIO-based disks		Success
Validate Multiple Arbitration		Success
Validate SCSI device Vital Product Data (VPD)		Success
Validate SCSI-3 Persistent Reservation		Success
Validate Simultaneous Failover		Success

System Configuration

Name	Result	Description
Validate Active Directory Configuration		Success
Validate All Drivers Signed		Success
Validate Memory Dump Settings		Success
Validate Operating System Installation Option		Success
Validate Required Services		Success
Validate Same Processor Architecture		Success
Validate Service Pack Levels		Success
Validate Software Update Levels		Success

Overall Result

Testing has completed successfully. The configuration appears to be suitable for clustering. However, you should review the report because it may contain warnings which you should address to attain the highest availability.

List All Disks

List all disks visible to one or more nodes (including non-cluster disks).

[Prepare storage for testing](#)

[Preparing storage for testing on node client1.cloud.com](#)

[Preparing storage for testing on node client3.cloud.com](#)



client1.cloud.com

[Getting information on PhysicalDrive 0 from node client1.cloud.com](#)

[Getting information on PhysicalDrive 1 from node client1.cloud.com](#)

[Getting information on PhysicalDrive 2 from node client1.cloud.com](#)

Disk Number	Disk Identifier	Disk Bus Type	Disk Stack Type	Disk Address (PORT:PATH:TID:LUN)	Adapter Description	Eligible for Validation	Disk Characteristics
PhysicalDrive0	1bf833ec	Bus Type SAS	Stor Port	2:0:0:0	LSI Adapter, SAS 3000 series, 8-port with 1068	False	Disk is a boot volume. Disk is a system volume. Disk is used for paging files. Disk is used for memory dump files. Disk is the system Disk partition style is MBR Disk partition type is BASI
PhysicalDrive1	e68afd3e	Bus Type iSCSI	Stor Port	33:0:0:0	Microsoft iSCSI Initiator	True	Disk partition style is MBR Disk partition type is BASI
PhysicalDrive2	e68afdc6	Bus Type iSCSI	Stor Port	33:0:1:0	Microsoft iSCSI Initiator	True	Disk partition style is MBR Disk partition type is BASI



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[Getting information on PhysicalDrive 0 from node client3.cloud.com](#)

[Getting information on PhysicalDrive 1 from node client3.cloud.com](#)

[Getting information on PhysicalDrive 2 from node client3.cloud.com](#)

Disk Number	Disk Identifier	Disk Bus Type	Disk Stack Type	Disk Address (PORT:PATH:TID:LUN)	Adapter Description	Eligible for Validation	Disk Characteristics
PhysicalDrive0	3f01b0d8	Bus Type SAS	Stor Port	2:0:0:0	LSI Adapter, SAS 3000 series, 8-port with 1068	False	Disk is a boot volume. Disk is a system volume. Disk is used for paging files. Disk is used for memory dump files. Disk is the system Disk partition style is MBR Disk partition type is BASI
PhysicalDrive1	e68afd3e	Bus Type iSCSI	Stor Port	33:0:0:0	Microsoft iSCSI Initiator	True	Disk partition style is MBR Disk partition type is BASI
PhysicalDrive2	e68afdc6	Bus Type iSCSI	Stor Port	33:0:1:0	Microsoft iSCSI Initiator	True	Disk partition style is MBR Disk partition type is BASI

[Back to Summary](#)

[Back to Top](#)

List BIOS Information

List BIOS information from each node.



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Gathering BIOS Information for client1.cloud.com

Item	Value
Name	PhoenixBIOS 4.0 Release 6.0
Manufacturer	Phoenix Technologies LTD
SMBios Present	True
SMBios Version	6.00
SMBios Major Version	2
SMBios Minor Version	7
Current Language	Value Not Found
Release Date	7/2/2015 5:30:00 AM
Primary BIOS	True



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Gathering BIOS Information for client3.cloud.com

Item	Value
Name	PhoenixBIOS 4.0 Release 6.0
Manufacturer	Phoenix Technologies LTD
SMBios Present	True
SMBios Version	6.00
SMBios Major Version	2
SMBios Minor Version	7
Current Language	Value Not Found
Release Date	7/2/2015 5:30:00 AM
Primary BIOS	True

[Back to Summary](#)

[Back to Top](#)

List Environment Variables

List environment variables set on each node.



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Gathering Environment Variables for client1.cloud.com

Name	Variable Value	User Name
ComSpec	%SystemRoot%\system32\cmd.exe	<SYSTEM>
FP_NO_HOST_CHECK	NO	<SYSTEM>
OS	Windows_NT	<SYSTEM>
Path	%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	<SYSTEM>
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC	<SYSTEM>
PROCESSOR_ARCHITECTURE	AMD64	<SYSTEM>
TEMP	%SystemRoot%\TEMP	<SYSTEM>
TMP	%SystemRoot%\TEMP	<SYSTEM>
USERNAME	SYSTEM	<SYSTEM>

windir	%SystemRoot%	<SYSTEM>
PSModulePath	%SystemRoot%\system32\WindowsPowerShell\v1.0\Modules\	<SYSTEM>
NUMBER_OF_PROCESSORS	2	<SYSTEM>
PROCESSOR_LEVEL	6	<SYSTEM>
PROCESSOR_IDENTIFIER	Intel64 Family 6 Model 42 Stepping 7, GenuineIntel	<SYSTEM>
PROCESSOR_REVISION	2a07	<SYSTEM>
windows_tracing_logfile	C:\BVTBin\Tests\installpackage\csilogfile.log	<SYSTEM>
windows_tracing_flags	3	<SYSTEM>
TEMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\SYSTEM
TMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\SYSTEM
TEMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\LOCAL SERVICE
TMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\LOCAL SERVICE
TEMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\NETWORK SERVICE
TMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\NETWORK SERVICE
TEMP	%USERPROFILE%\AppData\Local\Temp	CLIENT1\Client1
TMP	%USERPROFILE%\AppData\Local\Temp	CLIENT1\Client1
TEMP	%USERPROFILE%\AppData\Local\Temp	CLIENT1\Administrator
TMP	%USERPROFILE%\AppData\Local\Temp	CLIENT1\Administrator
TEMP	%USERPROFILE%\AppData\Local\Temp	CLOUD\Administrator
TMP	%USERPROFILE%\AppData\Local\Temp	CLOUD\Administrator


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Gathering Environment Variables for client3.cloud.com

Name	Variable Value	User Name
ComSpec	%SystemRoot%\system32\cmd.exe	<SYSTEM>
FP_NO_HOST_CHECK	NO	<SYSTEM>
OS	Windows_NT	<SYSTEM>
Path	%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	<SYSTEM>
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC	<SYSTEM>
PROCESSOR_ARCHITECTURE	AMD64	<SYSTEM>
TEMP	%SystemRoot%\TEMP	<SYSTEM>
TMP	%SystemRoot%\TEMP	<SYSTEM>
USERNAME	SYSTEM	<SYSTEM>
windir	%SystemRoot%	<SYSTEM>
PSModulePath	%SystemRoot%\system32\WindowsPowerShell\v1.0\Modules\	<SYSTEM>
NUMBER_OF_PROCESSORS	1	<SYSTEM>
PROCESSOR_LEVEL	6	<SYSTEM>
PROCESSOR_IDENTIFIER	Intel64 Family 6 Model 42 Stepping 7, GenuineIntel	<SYSTEM>
PROCESSOR_REVISION	2a07	<SYSTEM>
windows_tracing_logfile	C:\BVTBin\Tests\installpackage\csilogfile.log	<SYSTEM>
windows_tracing_flags	3	<SYSTEM>
TEMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\SYSTEM
TMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\SYSTEM
TEMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\LOCAL SERVICE
TMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\LOCAL SERVICE
TEMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\NETWORK SERVICE
TMP	%USERPROFILE%\AppData\Local\Temp	NT AUTHORITY\NETWORK SERVICE
TEMP	%USERPROFILE%\AppData\Local\Temp	CLIENT3\Client2
TMP	%USERPROFILE%\AppData\Local\Temp	CLIENT3\Client2
TEMP	%USERPROFILE%\AppData\Local\Temp	CLIENT3\Administrator
TMP	%USERPROFILE%\AppData\Local\Temp	CLIENT3\Administrator
TEMP	%USERPROFILE%\AppData\Local\Temp	CLOUD\Administrator
TMP	%USERPROFILE%\AppData\Local\Temp	CLOUD\Administrator

[Back to Summary](#)
[Back to Top](#)

List Fibre Channel Host Bus Adapters

List Fibre Channel host bus adapters on each node.



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Gathering Fibre Channel Host Bus Adapter information for client1.cloud.com

None found...



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Gathering Fibre Channel Host Bus Adapter information for client3.cloud.com

None found...

[Back to Summary](#)
[Back to Top](#)

List iSCSI Host Bus Adapters

List iSCSI host bus adapters on each node.



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Gathering iSCSI Host Bus Adapter information for client1.cloud.com

Manufacturer	Model	Manufacturer Version	Driver Name	Firmware Version	Serial Number	Status	Optional ROM Version	Unique Adapter ID
Microsoft Corporation	iSCSI Initiator	1.5	msiscsi.sys	1.5	MSFT-05-1991	The HBA is functioning normally.		1844673802682367:



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Gathering iSCSI Host Bus Adapter information for client3.cloud.com

Manufacturer	Model	Manufacturer Version	Driver Name	Firmware Version	Serial Number	Status	Optional ROM Version	Unique Adapter ID
Microsoft Corporation	iSCSI Initiator	1.5	msiscsi.sys	1.5	MSFT-05-1991	The HBA is functioning normally.		1844673802671489:

[Back to Summary](#)
[Back to Top](#)

List Memory Information

List memory information for each node.



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[Gathering Memory Information for client1.cloud.com](#)

Item	Value
Total Physical Memory	2 GB
Total Visible Memory Size	2 GB
Total Virtual Memory Size	4 GB
Free Physical Memory	1.44 GB
Free Virtual Memory	3.42 GB
Free Space In Page Files	2 GB



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[Gathering Memory Information for client3.cloud.com](#)

Item	Value
Total Physical Memory	1.41 GB
Total Visible Memory Size	1.41 GB
Total Virtual Memory Size	2.83 GB
Free Physical Memory	1,018.35 MB
Free Virtual Memory	2.4 GB
Free Space In Page Files	1.41 GB

[Back to Summary](#)

[Back to Top](#)

List Network Binding Order

List the order in which networks are bound to the adapters on each node.



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Binding Order	Adapter	Speed
Local Area Connection 3	Local Area Connection - Virtual Network	10000 Mbit/s



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Binding Order	Adapter	Speed
Local Area Connection 3	Local Area Connection - Virtual Network	10000 Mbit/s

[Back to Summary](#)

[Back to Top](#)

List Operating System Information

List information about the operating system on each node.



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[Gathering Operating System Information for client1.cloud.com](#)

Item	Value
Name	Microsoft Windows Server 2008 R2 Enterprise
Version	6.1.7601
Corrective Service Disk version	Service Pack 1
Build Number	7601

Service Pack Major	1
Service Pack Minor	0
Install Date	5/11/2017 1:03:05 PM
Last BootUp Time	5/13/2017 4:48:02 PM
Local Date Time	5/13/2017 5:56:13 PM
Windows Directory	C:\Windows
System Directory	C:\Windows\system32
Boot Device	\Device\HarddiskVolume1
Locale	en-US
PageFiles	C:\pagefile.sys - 2 GB ;



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Gathering Operating System Information for client3.cloud.com

Item	Value
Name	Microsoft Windows Server 2008 R2 Enterprise
Version	6.1.7601
Corrective Service Disk version	Service Pack 1
Build Number	7601
Service Pack Major	1
Service Pack Minor	0
Install Date	5/11/2017 12:25:21 PM
Last BootUp Time	5/13/2017 5:21:12 PM
Local Date Time	5/13/2017 5:56:13 PM
Windows Directory	C:\Windows
System Directory	C:\Windows\system32
Boot Device	\Device\HarddiskVolume1
Locale	en-US
PageFiles	C:\pagefile.sys - 1.41 GB ;

[Back to Summary](#)

[Back to Top](#)

List Plug and Play Devices

List Plug and Play devices on each node.



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Gathering Plug and Play Devices information for client1.cloud.com

Caption	Manufacturer	Status	Service
PCI Express standard Root Port	(Standard system devices)	OK	pci
Microsoft ACPI-Compliant System	Microsoft	OK	ACPI
Generic Bus	(Standard system devices)	OK	Value Not For
ATA Channel 13	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not For
Intel 82371AB/EB PCI to ISA bridge (ISA mode)	Intel	OK	msisadrv
Communications Port (COM1)	(Standard port types)	OK	Serial
Microsoft Composite Battery	Microsoft	OK	Compbatt
Generic Bus	(Standard system devices)	OK	Value Not For
USB Root Hub	(Standard USB Host Controller)	OK	usbhub
WAN Miniport (PPPOE)	Microsoft	OK	RasPppoe
Generic Bus	(Standard system devices)	OK	Value Not For
QoS Packet Scheduler	Value Not Found	Degraded	Psched

Mount Point Manager	Value Not Found	Degraded mountmgr
ATA Channel 27	(Standard IDE ATA/ATAPI controllers)	OK atapi
VgaSave	Value Not Found	Degraded VgaSave
Generic Bus	(Standard system devices)	OK Value Not Fou
ATA Channel 14	(Standard IDE ATA/ATAPI controllers)	OK atapi
Generic Bus	(Standard system devices)	OK Value Not Fou
Microsoft iSCSI Initiator	Microsoft	OK iScsiPrt
USB Root Hub	(Standard USB Host Controller)	OK usbbhub
WAN Miniport (PPTP)	Microsoft	OK PptpMiniport
VMware VMCI Bus Device	VMware, Inc.	OK vmci
Generic Bus	(Standard system devices)	OK Value Not Fou
PCI Express standard Root Port	(Standard system devices)	OK pci
Generic Bus	(Standard system devices)	OK Value Not Fou
System speaker	(Standard system devices)	OK Value Not Fou
Windows Firewall Authorization Driver	Value Not Found	Degraded mpsdrv
PCI Express standard Root Port	(Standard system devices)	OK pci
PCI Express standard Root Port	(Standard system devices)	OK pci
Value Not Found	Value Not Found	Error vhdparser
PCI Express standard Root Port	(Standard system devices)	OK pci
Ancillary Function Driver for Winsock	Value Not Found	Degraded AFD
ATA Channel 28	(Standard IDE ATA/ATAPI controllers)	OK atapi
Intel(R) 82371AB/EB PCI Bus Master IDE Controller	Intel	OK intelide
Generic Bus	(Standard system devices)	OK Value Not Fou
ATA Channel 15	(Standard IDE ATA/ATAPI controllers)	OK atapi
Generic USB Hub	(Generic USB Hub)	OK usbbhub
RDPCDD	Value Not Found	Degraded RDPCDD
Generic Non-PnP Monitor	(Standard monitor types)	OK monitor
Generic Bus	(Standard system devices)	OK Value Not Fou
WAN Miniport (SSTP)	Microsoft	OK RasSstp
PCI bus	(Standard system devices)	OK pci
Generic Bus	(Standard system devices)	OK Value Not Fou
Generic Bus	(Standard system devices)	OK Value Not Fou
Terminal Server Device Redirector Driver	Value Not Found	Degraded RDPDR
ATA Channel 29	(Standard IDE ATA/ATAPI controllers)	OK atapi
Microsoft Failover Cluster Virtual Adapter	Microsoft	OK Netft
Generic Bus	(Standard system devices)	OK Value Not Fou
ATA Channel 16	(Standard IDE ATA/ATAPI controllers)	OK atapi
Generic Bus	(Standard system devices)	OK Value Not Fou
USB Composite Device	(Standard USB Host Controller)	OK usbccgp
Generic Bus	(Standard system devices)	OK Value Not Fou
Common Log (CLFS)	Value Not Found	Degraded CLFS
Standard Enhanced PCI to USB Host Controller	(Standard USB Host Controller)	OK usbehci
Memory Control Driver	Value Not Found	Degraded VMEMCTL
PCI Express standard Root Port	(Standard system devices)	OK pci
Remote Desktop Device Redirector Bus	Microsoft	OK rdpbus
PCI Express standard Root Port	(Standard system devices)	OK pci
PCI Express standard Root Port	(Standard system devices)	OK pci
Generic Bus	(Standard system devices)	OK Value Not Fou
RDP Encoder Mirror Driver	Value Not Found	Degraded RDPENCDD
PCI Express standard Root Port	(Standard system devices)	OK pci
Microsoft AC Adapter	Microsoft	OK CmBatt
Generic Bus	(Standard system devices)	OK Value Not Fou
Generic Bus	(Standard system devices)	OK Value Not Fou
Intel 82443BX Pentium(R) II Processor to PCI Bridge	Intel	OK Value Not Fou
CNG	Value Not Found	Degraded CNG
ATA Channel 3	(Standard IDE ATA/ATAPI controllers)	OK atapi
Terminal Server Keyboard Driver	(Standard system devices)	OK TermDD
Generic Bus	(Standard system devices)	OK Value Not Fou
ATA Channel 17		

	(Standard IDE ATA/ATAPI controllers)	OK	atapi
ACPI Fixed Feature Button	(Standard system devices)	OK	Value Not Fou
VMware Vista Physical Disk Helper	Value Not Found	Degraded	vmrawdsk
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
USB Input Device	(Standard system devices)	OK	HidUsb
Reflector Display Driver used to gain access to graphics data	Value Not Found	Degraded	RDPREFMP
High Definition Audio Device	Microsoft	OK	HdAudAddSer
Generic Bus	(Standard system devices)	OK	Value Not Fou
Terminal Server Mouse Driver	(Standard system devices)	OK	TermDD
VMware, VMware Virtual S SCSI Disk Device	(Standard disk drives)	OK	disk
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
Dynamic Volume Manager	Value Not Found	Degraded	volmgrx
ATA Channel 4	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Intel(R) Core(TM) i3-2330M CPU @ 2.20GHz	Intel	OK	intelppm
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 18	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Standard Universal PCI to USB Host Controller	(Standard USB Host Controller)	OK	usbuhci
Microsoft Virtual Disk Server(no Class Installer)	Microsoft	OK	storvsp
RDP Winstation Driver	Value Not Found	Degraded	RDPWD
Generic Bus	(Standard system devices)	OK	Value Not Fou
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Fou
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
msisadrv	Value Not Found	Degraded	msisadrv
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Fou
USB Input Device	(Standard system devices)	OK	HidUsb
PCI standard PCI-to-PCI bridge	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Fou
Plug and Play Software Device Enumerator	(Standard system devices)	OK	swenum
Storage volumes	Value Not Found	Degraded	volsnap
Generic Bus	(Standard system devices)	OK	Value Not Fou
Link-Layer Topology Discovery Responder	Value Not Found	Degraded	rspndr
ATA Channel 5	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
System Attribute Cache	Value Not Found	Degraded	discache
ATA Channel 19	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
UMBus Root Bus Enumerator	Microsoft	OK	umbus
vSockets Driver	Value Not Found	Degraded	vsock
Generic Bus	(Standard system devices)	OK	Value Not Fou
Security Driver	Value Not Found	Degraded	secdrv
Generic Bus	(Standard system devices)	OK	Value Not Fou
VMware USB Pointing Device	VMware, Inc.	OK	mouhid
Generic Bus	(Standard system devices)	OK	Value Not Fou
Microsoft Virtual Drive Enumerator Driver	(Standard system devices)	OK	vdrvroot
NDIS System Driver	Value Not Found	Degraded	NDIS
LDDM Graphics Subsystem	Value Not Found	Degraded	DXGKrnI
Microsoft VHD HBA	Microsoft	OK	vhdmp
ATA Channel 6	(Standard IDE ATA/ATAPI controllers)	OK	atapi
PCI standard PCI-to-PCI bridge	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 7			

	(Standard IDE ATA/ATAPI controllers)	OK	atapi
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
Remote Access IPv6 ARP Driver	Value Not Found	Degraded	Wanarpv6
Generic Bus	(Standard system devices)	OK	Value Not Found
Security Processor Loader Driver	Value Not Found	Degraded	spldr
Virtualization Infrastructure Driver	Microsoft	Error	Vid
ATA Channel 0	(Standard IDE ATA/ATAPI controllers)	OK	atapi
NDProxy	Value Not Found	Degraded	NDProxy
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
Virtual Machine Bus	Microsoft	Error	vmbus
Intel(R) Core(TM) i3-2330M CPU @ 2.20GHz	Intel	OK	intelppm
ATA Channel 7	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Kernel Mode Driver Frameworks service	Value Not Found	Degraded	Wdf01000
VMware USB Pointing Device	VMware, Inc.	OK	mouhid
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 20	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
Microsoft Hyper-V Network Switch Default Miniport	Microsoft	OK	VMSMP
ATA Channel 1	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
WFP Lightweight Filter	Value Not Found	Degraded	WfpLwf
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Local Area Connection - Virtual Network	Microsoft	OK	VMSMP
PCI Express standard Root Port	(Standard system devices)	OK	pci
ATA Channel 8	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Standard AHCI 1.0 Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller	OK	msahci
NETBT	Value Not Found	Degraded	NetBT
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 21	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 0	(Standard IDE ATA/ATAPI controllers)	OK	atapi
VMware VMCI Host Device	VMware, Inc.	OK	vmci
Windows Socket 2.0 Non-IFS Service Provider Support Environment	Value Not Found	Degraded	ws2ifsl
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
NECVMMar VMware SATA CD01 ATA Device	(Standard CD-ROM drives)	OK	cdrom
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 9	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Disk Virtual Machine Bus Acceleration Filter Driver	Value Not Found	Degraded	storflt
ATA Channel 22	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
Volume Manager	(Standard system devices)	OK	volmgr
Generic Bus	(Standard system devices)	OK	Value Not Found
Microsoft System Management BIOS Driver	(Standard system devices)	OK	mssmbios
ATA Channel 1	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
NSI proxy service driver.	Value Not Found	Degraded	nsiproxy
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port			

	(Standard system devices)	OK	pci
Generic volume	Microsoft	OK	volsnap
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
EISA programmable interrupt controller	(Standard system devices)	OK	Value Not Found
HTTP	Value Not Found	Degraded	HTTP
Generic Bus	(Standard system devices)	OK	Value Not Found
ROCKET IMAGEFILE SCSI Disk Device	(Standard disk drives)	OK	disk
High Definition Audio Controller	Microsoft	OK	HDAudBus
Generic Bus	(Standard system devices)	OK	Value Not Found
WAN Miniport (IKEv2)	Microsoft	OK	RasAgileVpn
TCP/IP Protocol Driver	Value Not Found	Degraded	Tcpip
Microsoft ISATAP Adapter	Microsoft	OK	tunnel
ATA Channel 23	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 10	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Found
Hardware Policy Driver	Value Not Found	Degraded	hwpolicy
System timer	(Standard system devices)	OK	Value Not Found
Microsoft ISATAP Adapter #2	Microsoft	OK	tunnel
TCP/IP Registry Compatibility	Value Not Found	Degraded	tcpipreg
System CMOS/real time clock	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
WAN Miniport (L2TP)	Microsoft	OK	RasL2tp
Generic Bus	(Standard system devices)	OK	Value Not Found
Null	Value Not Found	Degraded	Null
ACPI x64-based PC	(Standard computers)	OK	\Driver\ACPI
LSI Adapter, SAS 3000 series, 8-port with 1068	LSI	OK	LSI_SAS
ATA Channel 24	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
KSecDD	Value Not Found	Degraded	KSecDD
Generic Bus	(Standard system devices)	OK	Value Not Found
High precision event timer	(Standard system devices)	OK	Value Not Found
ATA Channel 11	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
ROCKET IMAGEFILE SCSI Disk Device	(Standard disk drives)	OK	disk
TDTCP	Value Not Found	Degraded	TDTCP
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Motherboard resources	(Standard system devices)	OK	Value Not Found
WAN Miniport (Network Monitor)	Microsoft	OK	NdisWan
PassthroughParser	Value Not Found	Degraded	passthruParser
Intel(R) PRO/1000 MT Network Connection	Intel	OK	E1G60
File as Volume Driver	Microsoft	OK	blbdrive
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
KSecPkg	Value Not Found	Degraded	KSecPkg
Motherboard resources	(Standard system devices)	OK	Value Not Found
Direct memory access controller	(Standard system devices)	OK	Value Not Found
NetIO Legacy TDI Support Driver	Value Not Found	Degraded	tdx
ATA Channel 25	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Found
WAN Miniport (IP)	Microsoft	OK	NdisWan
Cluster Disk Driver	Microsoft	OK	ClusDisk
ATA Channel 12	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus			

VMware Pointing Device	(Standard system devices)	OK	Value Not Found
Performance Counters for Windows Driver	VMware, Inc.	OK	i8042prt
Link-Layer Topology Discovery Mapper I/O Driver	Value Not Found	Degraded	pcw
Generic Bus	Value Not Found	Degraded	ltdio
Remote Desktop Services Security Filter Driver	(Standard system devices)	OK	Value Not Found
Standard PS/2 Keyboard	Value Not Found	Degraded	tssecsrv
Generic Bus	(Standard keyboards)	OK	i8042prt
Composite Bus Enumerator	(Standard system devices)	OK	Value Not Found
VMware SVGA 3D	Microsoft	OK	CompositeBus
UMBus Enumerator	VMware, Inc.	OK	vm3dmp
WAN Miniport (IPv6)	Microsoft	OK	umbus
PCI Express standard Root Port	Microsoft	OK	NdisWan
ATA Channel 26	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard IDE ATA/ATAPI controllers)	OK	atapi
PEAUTH	(Standard system devices)	OK	pci
PCI Express standard Root Port	Value Not Found	Degraded	PEAUTH
	(Standard system devices)	OK	pci



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Gathering Plug and Play Devices information for client3.cloud.com

Caption	Manufacturer	Status	Service
PCI Express standard Root Port	(Standard system devices)	OK	pci
Microsoft ACPI-Compliant System	Microsoft	OK	ACPI
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 13	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
UMBus Enumerator	Microsoft	OK	umbus
Intel 82371AB/EB PCI to ISA bridge (ISA mode)	Intel	OK	msisadrv
Communications Port (COM1)	(Standard port types)	OK	Serial
Microsoft Composite Battery	Microsoft	OK	Compbatt
Generic Bus	(Standard system devices)	OK	Value Not Found
WAN Miniport (PPPOE)	Microsoft	OK	RasPppoe
Generic Bus	(Standard system devices)	OK	Value Not Found
QoS Packet Scheduler	Value Not Found	Degraded	Psched
Mount Point Manager	Value Not Found	Degraded	mountmgr
ATA Channel 27	(Standard IDE ATA/ATAPI controllers)	OK	atapi
USB Root Hub	(Standard USB Host Controller)	OK	usbhub
VgaSave	Value Not Found	Degraded	VgaSave
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 14	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
Microsoft iSCSI Initiator	Microsoft	OK	iScsiPrt
WAN Miniport (PPTP)	Microsoft	OK	PptpMiniport
VMware VMCI Bus Device	VMware, Inc.	OK	vmci
Generic Bus	(Standard system devices)	OK	Value Not Found
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
System speaker	(Standard system devices)	OK	Value Not Found
Windows Firewall Authorization Driver	Value Not Found	Degraded	mpsdrv
PCI Express standard Root Port	(Standard system devices)	OK	pci
USB Root Hub	(Standard USB Host Controller)	OK	usbhub
PCI Express standard Root Port	(Standard system devices)	OK	pci
Value Not Found	Value Not Found	Degraded	vhdparser
PCI Express standard Root Port	(Standard system devices)	OK	pci
Ancillary Function Driver for Winsock	Value Not Found	Degraded	AFD

ATA Channel 28	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Intel(R) 82371AB/EB PCI Bus Master IDE Controller	Intel	OK	intelide
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 15	(Standard IDE ATA/ATAPI controllers)	OK	atapi
RDPCDD	Value Not Found	Degraded	RDPCDD
Generic Non-PnP Monitor	(Standard monitor types)	OK	monitor
Generic Bus	(Standard system devices)	OK	Value Not Fou
WAN Miniport (SSTP)	Microsoft	OK	RasSstp
PCI bus	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic USB Hub	(Generic USB Hub)	OK	usbhub
Generic Bus	(Standard system devices)	OK	Value Not Fou
Terminal Server Device Redirector Driver	Value Not Found	Degraded	RDPDR
ATA Channel 29	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Microsoft Failover Cluster Virtual Adapter	Microsoft	OK	Netft
VMware, VMware Virtual S SCSI Disk Device	(Standard disk drives)	OK	disk
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 16	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
Common Log (CLFS)	Value Not Found	Degraded	CLFS
Standard Enhanced PCI to USB Host Controller	(Standard USB Host Controller)	OK	usbehci
Memory Control Driver	Value Not Found	Degraded	VMMEMCTL
PCI Express standard Root Port	(Standard system devices)	OK	pci
Remote Desktop Device Redirector Bus	Microsoft	OK	rdpbus
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Fou
RDP Encoder Mirror Driver	Value Not Found	Degraded	RDPENCDD
PCI Express standard Root Port	(Standard system devices)	OK	pci
Microsoft AC Adapter	Microsoft	OK	CmBatt
USB Composite Device	(Standard USB Host Controller)	OK	usbccgp
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
Intel 82443BX Pentium(R) II Processor to PCI Bridge	Intel	OK	Value Not Fou
CNG	Value Not Found	Degraded	CNG
ATA Channel 3	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Terminal Server Keyboard Driver	(Standard system devices)	OK	TermDD
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 17	(Standard IDE ATA/ATAPI controllers)	OK	atapi
ACPI Fixed Feature Button	(Standard system devices)	OK	Value Not Fou
VMware Vista Physical Disk Helper	Value Not Found	Degraded	vmrawdsk
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
Reflector Display Driver used to gain access to graphics data	Value Not Found	Degraded	RDPREFMP
High Definition Audio Device	Microsoft	OK	HdAudAddSer
Generic Bus	(Standard system devices)	OK	Value Not Fou
Terminal Server Mouse Driver	(Standard system devices)	OK	TermDD
Generic Bus	(Standard system devices)	OK	Value Not Fou
USB Input Device	(Standard system devices)	OK	HidUsb
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic volume	Microsoft	OK	volsnap
Dynamic Volume Manager	Value Not Found	Degraded	volmgrx
ATA Channel 4	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Intel(R) Core(TM) i3-2330M CPU @ 2.20GHz	Intel	OK	intelppm
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 18	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Standard Universal PCI to USB Host Controller	(Standard USB Host Controller)	OK	usbuhci
Microsoft Virtual Disk Server (no Class Installer)			

	Microsoft	OK	storvsp
RDP Winstation Driver	Value Not Found	Degraded	RDPWD
Generic Bus	(Standard system devices)	OK	Value Not Found
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
msisadv	Value Not Found	Degraded	msisadv
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
PCI standard PCI-to-PCI bridge	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
Plug and Play Software Device Enumerator	(Standard system devices)	OK	swenum
Storage volumes	Value Not Found	Degraded	volsnap
Generic Bus	(Standard system devices)	OK	Value Not Found
Link-Layer Topology Discovery Responder	Value Not Found	Degraded	rspndr
ATA Channel 5	(Standard IDE ATA/ATAPI controllers)	OK	atapi
USB Input Device	(Standard system devices)	OK	HidUsb
Generic Bus	(Standard system devices)	OK	Value Not Found
System Attribute Cache	Value Not Found	Degraded	discache
ATA Channel 19	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
UMBus Root Bus Enumerator	Microsoft	OK	umbus
vSockets Driver	Value Not Found	Degraded	vsock
Generic Bus	(Standard system devices)	OK	Value Not Found
Security Driver	Value Not Found	Degraded	secdrv
Generic Bus	(Standard system devices)	OK	Value Not Found
VMware USB Pointing Device	VMware, Inc.	OK	mouhid
Generic Bus	(Standard system devices)	OK	Value Not Found
Microsoft Virtual Drive Enumerator Driver	(Standard system devices)	OK	vdrvroot
NDIS System Driver	Value Not Found	Degraded	NDIS
LDDM Graphics Subsystem	Value Not Found	Degraded	DXGKrn1
ATA Channel 6	(Standard IDE ATA/ATAPI controllers)	OK	atapi
PCI standard PCI-to-PCI bridge	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 2	(Standard IDE ATA/ATAPI controllers)	OK	atapi
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
Remote Access IPv6 ARP Driver	Value Not Found	Degraded	Wanarpv6
Generic Bus	(Standard system devices)	OK	Value Not Found
Security Processor Loader Driver	Value Not Found	Degraded	spldr
Microsoft VHD HBA	Microsoft	OK	vhdmp
Virtualization Infrastructure Driver	Microsoft	Error	Vid
ATA Channel 0	(Standard IDE ATA/ATAPI controllers)	OK	atapi
NDProxy	Value Not Found	Degraded	NDProxy
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
Virtual Machine Bus	Microsoft	Error	vmbus
ATA Channel 7	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Kernel Mode Driver Frameworks service	Value Not Found	Degraded	Wdf01000
VMware USB Pointing Device	VMware, Inc.	OK	mouhid
Generic Bus	(Standard system devices)	OK	Value Not Found
ATA Channel 20	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus			

	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
Microsoft Hyper-V Network Switch Default Miniport	Microsoft	OK	VMSMP
ATA Channel 1	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Fou
WFP Lightweight Filter	Value Not Found	Degraded	WfpLwf
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Local Area Connection - Virtual Network	Microsoft	OK	VMSMP
PCI Express standard Root Port	(Standard system devices)	OK	pci
ATA Channel 8	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Standard AHCI 1.0 Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller	OK	msahci
NETBT	Value Not Found	Degraded	NetBT
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 21	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 0	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
VMware VMCI Host Device	VMware, Inc.	OK	vmci
Windows Socket 2.0 Non-IFS Service Provider Support Environment	Value Not Found	Degraded	ws2ifsl
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
NECVMLWar VMware SATA CD01 ATA Device	(Standard CD-ROM drives)	OK	cdrom
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 9	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Disk Virtual Machine Bus Acceleration Filter Driver	Value Not Found	Degraded	storflt
ATA Channel 22	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
Volume Manager	(Standard system devices)	OK	volmgr
Generic Bus	(Standard system devices)	OK	Value Not Fou
Microsoft System Management BIOS Driver	(Standard system devices)	OK	mssmbios
ATA Channel 1	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
NSI proxy service driver.	Value Not Found	Degraded	nsiproxy
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Fou
EISA programmable interrupt controller	(Standard system devices)	OK	Value Not Fou
HTTP	Value Not Found	Degraded	HTTP
Generic Bus	(Standard system devices)	OK	Value Not Fou
ROCKET IMAGEFILE SCSI Disk Device	(Standard disk drives)	OK	disk
High Definition Audio Controller	Microsoft	OK	HDAudBus
Generic Bus	(Standard system devices)	OK	Value Not Fou
WAN Miniport (IKEv2)	Microsoft	OK	RasAgileVpn
TCP/IP Protocol Driver	Value Not Found	Degraded	Tcpip
Microsoft ISATAP Adapter	Microsoft	OK	tunnel
ATA Channel 23	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
Generic Bus	(Standard system devices)	OK	Value Not Fou
ATA Channel 10	(Standard IDE ATA/ATAPI controllers)	OK	ataapi
Generic Bus	(Standard system devices)	OK	Value Not Fou
Hardware Policy Driver	Value Not Found	Degraded	hwpolicy
System timer	(Standard system devices)	OK	Value Not Fou
Microsoft ISATAP Adapter #2			

	Microsoft	OK	tunnel
TCP/IP Registry Compatibility	Value Not Found	Degraded	tcpipreg
System CMOS/real time clock	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
WAN Miniport (L2TP)	Microsoft	OK	Rasl2tp
Generic Bus	(Standard system devices)	OK	Value Not Found
Null	Value Not Found	Degraded	Null
ACPI x64-based PC	(Standard computers)	OK	\Driver\ACPI
LSI Adapter, SAS 3000 series, 8-port with 1068	LSI	OK	LSI_SAS
ATA Channel 24	(Standard IDE ATA/ATAPI controllers)	OK	atapi
KSecDD	Value Not Found	Degraded	KSecDD
Generic Bus	(Standard system devices)	OK	Value Not Found
High precision event timer	(Standard system devices)	OK	Value Not Found
ATA Channel 11	(Standard IDE ATA/ATAPI controllers)	OK	atapi
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Generic Bus	(Standard system devices)	OK	Value Not Found
ROCKET IMAGEFILE SCSI Disk Device	(Standard disk drives)	OK	disk
TDTCP	Value Not Found	Degraded	TDTCP
PCI Express standard Root Port	(Standard system devices)	OK	pci
PCI Express standard Root Port	(Standard system devices)	OK	pci
Motherboard resources	(Standard system devices)	OK	Value Not Found
WAN Miniport (Network Monitor)	Microsoft	OK	NdisWan
PassthroughParser	Value Not Found	Degraded	passthruParse
Intel(R) PRO/1000 MT Network Connection	Intel	OK	E1G60
File as Volume Driver	Microsoft	OK	blbdrive
Generic Bus	(Standard system devices)	OK	Value Not Found
Generic Bus	(Standard system devices)	OK	Value Not Found
KSecPkg	Value Not Found	Degraded	KSecPkg
Motherboard resources	(Standard system devices)	OK	Value Not Found
Direct memory access controller	(Standard system devices)	OK	Value Not Found
NetIO Legacy TDI Support Driver	Value Not Found	Degraded	tdx
ATA Channel 25	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
WAN Miniport (IP)	Microsoft	OK	NdisWan
Cluster Disk Driver	Microsoft	OK	ClusDisk
ATA Channel 12	(Standard IDE ATA/ATAPI controllers)	OK	atapi
Generic Bus	(Standard system devices)	OK	Value Not Found
VMware Pointing Device	VMware, Inc.	OK	i8042prt
Performance Counters for Windows Driver	Value Not Found	Degraded	pcw
Link-Layer Topology Discovery Mapper I/O Driver	Value Not Found	Degraded	lltdio
Generic Bus	(Standard system devices)	OK	Value Not Found
Remote Desktop Services Security Filter Driver	Value Not Found	Degraded	tssecsrv
Standard PS/2 Keyboard	(Standard keyboards)	OK	i8042prt
Generic Bus	(Standard system devices)	OK	Value Not Found
Composite Bus Enumerator	Microsoft	OK	CompositeBus
VMware SVGA 3D	VMware, Inc.	OK	vm3dmp
WAN Miniport (IPv6)	Microsoft	OK	NdisWan
PCI Express standard Root Port	(Standard system devices)	OK	pci
ATA Channel 26	(Standard IDE ATA/ATAPI controllers)	OK	atapi
PCI Express standard Root Port	(Standard system devices)	OK	pci
PEAUTH	Value Not Found	Degraded	PEAUTH
PCI Express standard Root Port	(Standard system devices)	OK	pci

[Back to Summary](#)
[Back to Top](#)

List Potential Cluster Disks

List disks visible to two or more nodes that will be validated for cluster compatibility. Online clustered disks will be excluded.

Checking that multi-path I/O (MPIO) works for disk with identifier e68afd3e on node client1.cloud.com

Checking that multi-path I/O (MPIO) works for disk with identifier e68afd3e on node client3.cloud.com

Checking that multi-path I/O (MPIO) works for disk with identifier e68afdc6 on node client1.cloud.com

Checking that multi-path I/O (MPIO) works for disk with identifier e68afdc6 on node client3.cloud.com

Writing to sector 11 on disk with identifier e68afd3e from node client1.cloud.com

Reading sector 11 on disk with identifier e68afd3e from node client1.cloud.com

Reading sector 11 on disk with identifier e68afd3e from node client3.cloud.com

Writing to sector 11 on disk with identifier e68afdc6 from node client1.cloud.com

Reading sector 11 on disk with identifier e68afdc6 from node client1.cloud.com

Reading sector 11 on disk with identifier e68afdc6 from node client3.cloud.com

Getting properties for cluster disk 0 from node client1.cloud.com

Getting properties for cluster disk 1 from node client1.cloud.com

Disks eligible for cluster validation: Disks will be referred to by the following cluster disk numbers in subsequent tests	Nodes where the disk is visible	Number of nodes where the disk is visible
Cluster disk 0 has disk identifier e68afd3e	All Nodes	2
Cluster disk 1 has disk identifier e68afdc6	All Nodes	2

[Back to Summary](#)
[Back to Top](#)

List Running Processes

List the running processes on each node.

 client1.cloud.com

Gathering Running Processes for client1.cloud.com

Name	Path	Start Name	Process Id	WorkingSet Size	Virtual Size	Creation Date	Thread Count	Ha Coi
System Idle Process	Value Not Found	Value Not Found	0	24576	0	Value Not Found	2	0
System	Value Not Found	Value Not Found	4	311296	3461120	5/13/2017 4:48:12 PM	110	495
smss.exe	Value Not Found	NT AUTHORITY\SYSTEM	244	1150976	5169152	5/13/2017 4:48:12 PM	2	30
csrss.exe	C:\Windows\system32\csrss.exe	NT AUTHORITY\SYSTEM	332	4239360	45608960	5/13/2017 4:48:20 PM	9	454
wininit.exe	C:\Windows\system32\wininit.exe	NT AUTHORITY\SYSTEM	400	4415488	46469120	5/13/2017 4:48:21 PM	3	79
csrss.exe	C:\Windows\system32\csrss.exe	NT AUTHORITY\SYSTEM	408	9691136	53710848	5/13/2017 4:48:21 PM	10	222
winlogon.exe	C:\Windows\system32\winlogon.exe	NT AUTHORITY\SYSTEM	444	5111808	27910144	5/13/2017 4:48:22 PM	3	98
services.exe	C:\Windows\system32\services.exe	NT AUTHORITY\SYSTEM	504	11292672	46739456	5/13/2017 4:48:24 PM	9	265
lsass.exe	C:\Windows\system32\lsass.exe	NT AUTHORITY\SYSTEM	512	13189120	45993984	5/13/2017 4:48:24 PM	7	728
lsm.exe	C:\Windows\system32\lsm.exe	NT AUTHORITY\SYSTEM	520	6103040	32141312	5/13/2017 4:48:24 PM	12	205
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\SYSTEM	620	9748480	44773376	5/13/2017 4:48:29 PM	12	365
vmacthlp.exe	C:\Program Files\VMware\VMware Tools\vmacthlp.exe	NT AUTHORITY\SYSTEM	684	4075520	40738816	5/13/2017 4:48:30 PM	3	54
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\NETWORK SERVICE	728	9023488	39018496	5/13/2017 4:48:31 PM	8	320

svchost.exe	C:\Windows\System32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	820	13975552	50884608	5/13/2017 4:48:32 PM	14	35
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\SYSTEM	856	40079360	163160064	5/13/2017 4:48:33 PM	38	11
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	908	14233600	65085440	5/13/2017 4:48:34 PM	13	60
svchost.exe	C:\Windows\System32\svchost.exe	NT AUTHORITY\SYSTEM	964	10698752	65806336	5/13/2017 4:48:35 PM	7	21
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\NETWORK SERVICE	1004	16642048	100638720	5/13/2017 4:48:36 PM	18	44
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	580	11157504	51200000	5/13/2017 4:48:54 PM	17	30
spoolsv.exe	C:\Windows\System32\spoolsv.exe	NT AUTHORITY\SYSTEM	1096	16347136	108126208	5/13/2017 4:48:57 PM	12	31
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	1188	3641344	15933440	5/13/2017 4:48:59 PM	3	66
VGAuthService.exe	C:\Program Files\VMware\VMware Tools\VMware VGAUTH\VGAuthService.exe	NT AUTHORITY\SYSTEM	1268	10625024	61009920	5/13/2017 4:49:00 PM	3	88
vmtoolsd.exe	C:\Program Files\VMware\VMware Tools\vmtoolsd.exe	NT AUTHORITY\SYSTEM	1336	18997248	87859200	5/13/2017 4:49:03 PM	8	26
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\SYSTEM	1416	11575296	69550080	5/13/2017 4:49:07 PM	5	15
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\SYSTEM	1436	6737920	49225728	5/13/2017 4:49:07 PM	4	10
vmms.exe	C:\Windows\system32\vmms.exe	NT AUTHORITY\SYSTEM	1456	23683072	135032832	5/13/2017 4:49:07 PM	12	47
svchost.exe	C:\Windows\System32\svchost.exe	NT AUTHORITY\NETWORK SERVICE	1704	6754304	36585472	5/13/2017 4:49:11 PM	12	24
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\NETWORK SERVICE	1784	5566464	31207424	5/13/2017 4:49:11 PM	5	10
dllhost.exe	C:\Windows\system32\dllhost.exe	NT AUTHORITY\SYSTEM	1216	10551296	54824960	5/13/2017 4:49:17 PM	12	18
msdtc.exe	C:\Windows\System32\msdtc.exe	NT AUTHORITY\NETWORK SERVICE	1956	8351744	64958464	5/13/2017 4:49:19 PM	12	16
WmiPrvSE.exe	C:\Windows\system32\wbem\wmiprivse.exe	NT AUTHORITY\NETWORK SERVICE	2192	14770176	73588736	5/13/2017 4:49:27 PM	12	28
taskhost.exe	C:\Windows\system32\taskhost.exe	CLOUD\Administrator	2624	6008832	53448704	5/13/2017 4:50:37 PM	6	12
dwm.exe	C:\Windows\system32\Dwm.exe	CLOUD\Administrator	2752	4956160	51793920	5/13/2017 4:50:37 PM	3	73
explorer.exe	C:\Windows\Explorer.EXE	CLOUD\Administrator	2764	42393600	199770112	5/13/2017 4:50:38 PM	28	65
vmtoolsd.exe	C:\Program Files\VMware\VMware Tools\vmtoolsd.exe	CLOUD\Administrator	2992	16015360	100098048	5/13/2017 4:50:44 PM	5	18
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	2436	4460544	30429184	5/13/2017 4:51:12 PM	5	71
sppsvc.exe	C:\Windows\system32\sppsvc.exe	NT AUTHORITY\NETWORK SERVICE	1720	8867840	37167104	5/13/2017 4:51:12 PM	4	15
mmc.exe	C:\Windows\system32\mmc.exe	CLOUD\Administrator	1692	10723328	122650624	5/13/2017 5:33:47 PM	9	20
vds.exe	C:\Windows\System32\vds.exe	NT AUTHORITY\SYSTEM	1640	9580544	48246784	5/13/2017 5:33:51 PM	15	19
mmc.exe	C:\Windows\system32\mmc.exe	CLOUD\Administrator	464	72744960	741257216	5/13/2017 5:47:57 PM	20	65
CPrepSrv.exe	C:\Windows\System32\CPrepSrv.exe	CLOUD\Administrator	2364	5373952	53403648	5/13/2017 5:52:15 PM	4	87
WmiPrvSE.exe	C:\Windows\system32\wbem\wmiprivse.exe	NT AUTHORITY\SYSTEM	2948	6328320	33841152	5/13/2017 5:56:08 PM	8	12



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Gathering Running Processes for client3.cloud.com

Name	Path	Start Name	Process Id	WorkingSet Size	Virtual Size	Creation Date	Thread Count	Ha
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								Co
System Idle Process	Value Not Found	Value Not Found	0	24576	0	Value Not Found	1	0
System	Value Not Found	Value Not Found	4	311296	3461120	5/13/2017 5:21:22 PM	107	49;
smss.exe	Value Not Found	NT AUTHORITY\SYSTEM	236	1077248	5169152	5/13/2017 5:21:22 PM	2	29
csrss.exe	C:\Windows\system32\csrss.exe	NT AUTHORITY\SYSTEM	320	3911680	46395392	5/13/2017 5:21:31 PM	9	43;
csrss.exe	C:\Windows\system32\csrss.exe	NT AUTHORITY\SYSTEM	360	8802304	50876416	5/13/2017 5:21:32 PM	9	16;
wininit.exe	C:\Windows\system32\wininit.exe	NT AUTHORITY\SYSTEM	368	4218880	45420544	5/13/2017 5:21:32 PM	3	77
winlogon.exe	C:\Windows\system32\winlogon.exe	NT AUTHORITY\SYSTEM	404	4816896	27910144	5/13/2017 5:21:32 PM	3	98
services.exe	C:\Windows\system32\services.exe	NT AUTHORITY\SYSTEM	464	9256960	35610624	5/13/2017 5:21:34 PM	8	23;
lsass.exe	C:\Windows\system32\lsass.exe	NT AUTHORITY\SYSTEM	472	12320768	43200512	5/13/2017 5:21:34 PM	7	72;
lsmd.exe	C:\Windows\system32\lsmd.exe	NT AUTHORITY\SYSTEM	480	5894144	32141312	5/13/2017 5:21:34 PM	12	20;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\SYSTEM	568	10047488	45641728	5/13/2017 5:21:39 PM	12	36;
vmacthlp.exe	C:\Program Files\VMware\VMware Tools\vmacthlp.exe	NT AUTHORITY\SYSTEM	628	3866624	40738816	5/13/2017 5:21:41 PM	3	54
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\NETWORK SERVICE	672	8228864	36835328	5/13/2017 5:21:42 PM	8	29;
svchost.exe	C:\Windows\System32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	760	14163968	62816256	5/13/2017 5:21:42 PM	13	34;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\SYSTEM	812	37462016	139427840	5/13/2017 5:21:43 PM	35	10;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	860	13463552	64647168	5/13/2017 5:21:44 PM	14	58;
svchost.exe	C:\Windows\System32\svchost.exe	NT AUTHORITY\SYSTEM	904	9797632	64892928	5/13/2017 5:21:45 PM	7	21;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\NETWORK SERVICE	948	16609280	101449728	5/13/2017 5:21:46 PM	16	43;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	260	10997760	50151424	5/13/2017 5:22:05 PM	17	29;
spoolsv.exe	C:\Windows\System32\spoolsv.exe	NT AUTHORITY\SYSTEM	1064	15335424	106029056	5/13/2017 5:22:07 PM	12	30;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	1164	3465216	15933440	5/13/2017 5:22:09 PM	3	63
VGAuthService.exe	C:\Program Files\VMware\VMware Tools\VMware VGAuthService.exe	NT AUTHORITY\SYSTEM	1232	10379264	60485632	5/13/2017 5:22:10 PM	3	88
vmtoolsd.exe	C:\Program Files\VMware\VMware Tools\vmtoolsd.exe	NT AUTHORITY\SYSTEM	1292	18329600	86810624	5/13/2017 5:22:11 PM	8	26;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\SYSTEM	1380	10600448	66928640	5/13/2017 5:22:14 PM	5	15;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\SYSTEM	1400	6500352	48701440	5/13/2017 5:22:14 PM	4	10;
vmms.exe	C:\Windows\system32\vmms.exe	NT AUTHORITY\SYSTEM	1420	21131264	124022784	5/13/2017 5:22:14 PM	11	43;
svchost.exe	C:\Windows\System32\svchost.exe	NT AUTHORITY\NETWORK SERVICE	1712	6627328	36061184	5/13/2017 5:22:19 PM	12	24;
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\NETWORK SERVICE	1752	5382144	30158848	5/13/2017 5:22:19 PM	5	10;
dllhost.exe	C:\Windows\system32\dllhost.exe	NT AUTHORITY\SYSTEM	1220	10031104	53776384	5/13/2017 5:22:27 PM	12	17;
WmiPrivSE.exe	C:\Windows\system32\wbem\wmiprvse.exe	NT AUTHORITY\NETWORK SERVICE	1788	15314944	72531968	5/13/2017 5:22:28 PM	11	26;
msdtc.exe	C:\Windows\System32\msdtc.exe	NT AUTHORITY\NETWORK SERVICE	2012	8015872	62861312	5/13/2017 5:22:29 PM	12	15;
taskhost.exe	C:\Windows\system32\taskhost.exe	CLOUD\Administrator	2564	5824512	53448704	5/13/2017 5:22:49 PM	6	12;
dwm.exe	C:\Windows\system32\Dwm.exe	CLOUD\Administrator	2648	4612096	51793920	5/13/2017 5:22:50 PM	3	66

explorer.exe	C:\Windows\Explorer.EXE	CLOUD\Administrator	2672	41553920	198467584	5/13/2017 5:22:52 PM	27	61:
vmtoolsd.exe	C:\Program Files\VMware\VMware Tools\vmtoolsd.exe	CLOUD\Administrator	3056	21512192	106729472	5/13/2017 5:23:02 PM	6	18:
svchost.exe	C:\Windows\system32\svchost.exe	NT AUTHORITY\LOCAL SERVICE	2720	4374528	30429184	5/13/2017 5:24:19 PM	5	70
sppsvc.exe	C:\Windows\system32\sppsvc.exe	NT AUTHORITY\NETWORK SERVICE	536	7163904	34082816	5/13/2017 5:24:20 PM	5	15:
CPrepSrv.exe	C:\Windows\System32\CPrepSrv.exe	CLOUD\Administrator	2224	6074368	34459648	5/13/2017 5:52:16 PM	5	12:
WmiPrivSE.exe	C:\Windows\system32\wbem\wmiprvse.exe	NT AUTHORITY\SYSTEM	256	6111232	33316864	5/13/2017 5:56:09 PM	8	12:

[Back to Summary](#)[Back to Top](#)

List SAS Host Bus Adapters

List Serial Attached SCSI (SAS) host bus adapters on each node.



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Gathering SAS Host Bus Adapter information for client1.cloud.com

Manufacturer	Model	Driver Name	Number of Ports	Driver Version	Firmware Version	Serial Number	Status	Optional ROM Version	Unique Adapter ID
LSI Corporation	SAS3444	lsi_sas	8	1.28.03.52	01.03.41.32		The SAS controller is functioning normally.	05.02.00.00	576602082009334:



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Gathering SAS Host Bus Adapter information for client3.cloud.com

Manufacturer	Model	Driver Name	Number of Ports	Driver Version	Firmware Version	Serial Number	Status	Optional ROM Version	Unique Adapter ID
LSI Corporation	SAS3444	lsi_sas	8	1.28.03.52	01.03.41.32		The SAS controller is functioning normally.	05.02.00.00	576602081320221:

[Back to Summary](#)[Back to Top](#)

List Services Information

List information about the services running on each node.



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Gathering Services Information for client1.cloud.com

Display Name	Name	State	Path	Type	Error Control	Start Name	Start Mode	Sta
Application Experience	AeLookupSvc	Stopped	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	Fals
Application Layer Gateway Service	ALG	Stopped	C:\Windows\System32\alg.exe	Own Process	Normal	NT AUTHORITY\LocalService	Manual	Fals
Application Identity	AppIDSvc	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT Authority\LocalService	Manual	Fals

Application Information	Appinfo	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	True
Application Management	AppMgmt	Stopped	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Windows Audio Endpoint Builder	AudioEndpointBuilder	Stopped	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Windows Audio	AudioSrv	Stopped	C:\Windows\System32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Base Filtering Engine	BFE	Running	C:\Windows\system32\svchost.exe -k LocalServiceNoNetwork	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
Background Intelligent Transfer Service	BITS	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Computer Browser	Browser	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Disabled	False
Certificate Propagation	CertPropSvc	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	True
Microsoft .NET Framework NGEN v2.0.50727_X86	clr_optimization_v2.0.50727_32	Stopped	C:\Windows\Microsoft.NET\Framework\v2.0.50727\mscorsvw.exe	Own Process	Ignore	LocalSystem	Manual	False
Microsoft .NET Framework NGEN v2.0.50727_X64	clr_optimization_v2.0.50727_64	Stopped	C:\Windows\Microsoft.NET\Framework64\v2.0.50727\mscorsvw.exe	Own Process	Ignore	LocalSystem	Manual	False
Cluster Service	ClusSvc	Stopped	C:\Windows\Cluster\clussvc.exe -s	Own Process	Normal	LocalSystem	Auto	False
COM+ System Application	COMSysApp	Running	C:\Windows\system32\dlhhost.exe /Processid:{02D4B3F1-FD88-11D1-960D-00805FC79235}	Own Process	Normal	LocalSystem	Manual	True
Cryptographic Services	CryptSvc	Running	C:\Windows\system32\svchost.exe -k NetworkService	Share Process	Normal	NT Authority\NetworkService	Auto	True
DCOM Server Process Launcher	DcomLaunch	Running	C:\Windows\system32\svchost.exe -k DcomLaunch	Share Process	Normal	LocalSystem	Auto	True
Disk Defragmenter	defragsvc	Stopped	C:\Windows\system32\svchost.exe -k defragsvc	Own Process	Normal	LocalSystem	Manual	False
DHCP Client	Dhcp	Running	C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT Authority\LocalService	Auto	True
DNS Client	Dnscache	Running	C:\Windows\system32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True
Wired AutoConfig	dot3svc	Stopped	C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Diagnostic Policy Service	DPS	Running	C:\Windows\System32\svchost.exe -k LocalServiceNoNetwork	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
Extensible Authentication Protocol	EapHost	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Encrypting File System (EFS)	EFS	Stopped	C:\Windows\System32\lsass.exe	Share Process	Normal	LocalSystem	Manual	False
Windows Event Log	eventlog	Running	C:\Windows\System32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
COM+ Event System	EventSystem	Running	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
Microsoft Fibre Channel Platform Registration Service	FCRegSvc	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Function Discovery Provider Host	fdPHost	Stopped	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Function Discovery Resource Publication	FDResPub	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Windows Font Cache Service	FontCache	Running	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
Group Policy Client	gpsvc	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
Human Interface Device Access	hidserv	Stopped	C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Health Key and Certificate Management	hkmsvc	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
IKE and AuthIP IPsec Keying Modules	IKEEXT	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
PnP-X IP Bus	IPBusEnum	Stopped	C:\Windows\system32\svchost.exe -k	Share	Normal	LocalSystem	Disabled	False

Enumerator		LocalSystemNetworkRestricted	Process					
IP Helper	iphlpvc	Running C:\Windows\System32\svchost.exe -k NetSvc	Share Process	Normal	LocalSystem	Auto	True	
CNG Key Isolation	KeyIso	Stopped C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Manual	False	
KtmRm for Distributed Transaction Coordinator	KtmRm	Stopped C:\Windows\System32\svchost.exe -k NetworkServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\NetworkService	Manual	False	
Server	LanmanServer	Running C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True	
Workstation	LanmanWorkstation	Running C:\Windows\System32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True	
Link-Layer Topology Discovery Mapper	ltdsvc	Stopped C:\Windows\System32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False	
TCP/IP NetBIOS Helper	lmhosts	Running C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True	
Multimedia Class Scheduler	MMCSS	Stopped C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False	
Windows Firewall	MpsSvc	Running C:\Windows\system32\svchost.exe -k LocalServiceNoNetwork	Share Process	Normal	NT Authority\LocalService	Auto	True	
Distributed Transaction Coordinator	MSDTC	Running C:\Windows\System32\msdtc.exe	Own Process	Normal	NT AUTHORITY\NetworkService	Auto	True	
Microsoft iSCSI Initiator Service	MSISCSI	Running C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True	
Windows Installer	msiserver	Stopped C:\Windows\system32\msiexec.exe /V	Own Process	Normal	LocalSystem	Manual	False	
Network Access Protection Agent	napagent	Stopped C:\Windows\System32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Manual	False	
Netlogon	Netlogon	Running C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Auto	True	
Network Connections	Netman	Running C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	True	
Network List Service	netprofm	Running C:\Windows\System32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	True	
Network Location Awareness	NlaSvc	Running C:\Windows\System32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True	
Network Store Interface Service	nsi	Running C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT Authority\LocalService	Auto	True	
Hyper-V Networking Management Service	nvspwmi	Running C:\Windows\system32\svchost -k nvspwmi	Share Process	Normal	LocalSystem	Auto	True	
Performance Counter DLL Host	PerfHost	Stopped C:\Windows\SysWow64\perfhost.exe	Own Process	Normal	NT AUTHORITY\LocalService	Manual	False	
Performance Logs & Alerts	pla	Stopped C:\Windows\System32\svchost.exe -k LocalServiceNoNetwork	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False	
Plug and Play	PlugPlay	Running C:\Windows\system32\svchost.exe -k DcomLaunch	Share Process	Normal	LocalSystem	Auto	True	
IPsec Policy Agent	PolicyAgent	Running C:\Windows\system32\svchost.exe -k NetworkServiceNetworkRestricted	Share Process	Normal	NT Authority\NetworkService	Manual	True	
Power	Power	Running C:\Windows\system32\svchost.exe -k DcomLaunch	Share Process	Normal	LocalSystem	Auto	True	
User Profile Service	ProfSvc	Running C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True	
Protected Storage	ProtectedStorage	Stopped C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Manual	False	
Remote Access Auto Connection Manager	RasAuto	Stopped C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	False	
Remote Access Connection Manager	RasMan	Stopped C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	False	
Routing and Remote Access	RemoteAccess	Stopped C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Disabled	False	
Remote Registry	RemoteRegistry	Running C:\Windows\system32\svchost.exe -k regsvc	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True	
RPC Endpoint Mapper	RpcEptMapper	Running C:\Windows\system32\svchost.exe -k RPCSS	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True	
Remote Procedure Call (RPC) Locator	RpcLocator	Stopped C:\Windows\system32\locator.exe	Own Process	Normal	NT AUTHORITY\NetworkService	Manual	False	

Remote Procedure Call (RPC)	RpcSs	Running	C:\Windows\system32\svchost.exe -k rpcss	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True
Resultant Set of Policy Provider	RSOPProv	Stopped	C:\Windows\system32\RSOPProv.exe	Share Process	Normal	LocalSystem	Manual	False
Special Administration Console Helper	sacsvr	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Security Accounts Manager	SamSs	Running	C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Auto	True
Smart Card	SCardSvr	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Task Scheduler	Schedule	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
Smart Card Removal Policy	SCPolicySvc	Stopped	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Secondary Logon	seclogon	Stopped	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
System Event Notification Service	SENS	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
Remote Desktop Configuration	SessionEnv	Running	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	True
Internet Connection Sharing (ICS)	SharedAccess	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Disabled	False
Shell Hardware Detection	ShellHWDetection	Running	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Ignore	LocalSystem	Auto	True
SNMP Trap	SNMPTRAP	Stopped	C:\Windows\System32\snmptrap.exe	Own Process	Normal	NT AUTHORITY\LocalService	Manual	False
Print Spooler	Spooler	Running	C:\Windows\System32\spoolsv.exe	Own Process	Normal	LocalSystem	Auto	True
Software Protection	sppsvc	Running	C:\Windows\system32\sppsvc.exe	Own Process	Normal	NT AUTHORITY\NetworkService	Auto	True
SPP Notification Service	sppuinotify	Running	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	True
SSDP Discovery	SSDPSRV	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Disabled	False
Secure Socket Tunneling Protocol Service	SstpSvc	Stopped	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT Authority\LocalService	Manual	False
Microsoft Software Shadow Copy Provider	swprv	Stopped	C:\Windows\System32\svchost.exe -k swprv	Own Process	Normal	LocalSystem	Manual	False
Telephony	TapiSrv	Stopped	C:\Windows\System32\svchost.exe -k tapisrv	Own Process	Normal	NT AUTHORITY\NetworkService	Manual	False
TPM Base Services	TBS	Stopped	C:\Windows\System32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Remote Desktop Services	TermService	Running	C:\Windows\System32\svchost.exe -k termsvcs	Share Process	Normal	NT Authority\NetworkService	Manual	True
Thread Ordering Server	THREADORDER	Stopped	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
TP AutoConnect Service	TPAutoConnSvc	Stopped	"C:\Program Files\VMware\VMware Tools\TPAutoConnSvc.exe"	Own Process	Normal	LocalSystem	Manual	False
TP VC Gateway Service	TPVCGateway	Stopped	"C:\Program Files\VMware\VMware Tools\TPVCGateway.exe"	Own Process	Normal	LocalSystem	Manual	False
Distributed Link Tracking Client	TrkWks	Running	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Auto	True
Windows Modules Installer	TrustedInstaller	Stopped	C:\Windows\servicing\TrustedInstaller.exe	Own Process	Normal	localSystem	Manual	False
Interactive Services Detection	UI0Detect	Stopped	C:\Windows\system32\UI0Detect.exe	Own Process	Normal	LocalSystem	Manual	False
Remote Desktop Services UserMode Port Redirector	UmRdpService	Running	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	localSystem	Manual	True
UPnP Device Host	upnphost	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Disabled	False
Desktop Window Manager Session Manager	UxSms	Running	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	localSystem	Auto	True
Credential Manager	VaultSvc	Stopped	C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Manual	False

Virtual Disk	vds	Running	C:\Windows\System32\vds.exe	Own Process	Normal	LocalSystem	Manual	True
VMware Alias Manager and Ticket Service	VGAuthService	Running	"C:\Program Files\VMware\VMware Tools\VMware VGAuthService\VGAuthService.exe"	Own Process	Normal	LocalSystem	Auto	True
Hyper-V Image Management Service	vhdsvc	Running	C:\Windows\system32\svchost -k virtsvcs	Share Process	Normal	LocalSystem	Auto	True
Hyper-V Virtual Machine Management	vmms	Running	C:\Windows\system32\vmms.exe	Own Process	Normal	LocalSystem	Auto	True
VMware Tools	VMTools	Running	"C:\Program Files\VMware\VMware Tools\vmtoolsd.exe"	Own Process	Normal	LocalSystem	Auto	True
VMware Snapshot Provider	vmvss	Stopped	C:\Windows\system32\dlh\host.exe /Processid: {5C420BCC-B537-45AF-9471-2AC3DF4A9BE5}	Own Process	Normal	LocalSystem	Manual	False
VMware Physical Disk Helper Service	VMware Physical Disk Helper Service	Running	"C:\Program Files\VMware\VMware Tools\vmacthlp.exe"	Own Process	Ignore	LocalSystem	Auto	True
Volume Shadow Copy	vss	Stopped	C:\Windows\system32\vssvc.exe	Own Process	Normal	LocalSystem	Manual	False
Windows Time	W32Time	Running	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	True
Windows Color System	WcsPlugInService	Stopped	C:\Windows\system32\svchost.exe -k wcsSvc	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Diagnostic Service Host	WdiServiceHost	Stopped	C:\Windows\System32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Diagnostic System Host	WdiSystemHost	Stopped	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Windows Event Collector	Wecsvc	Stopped	C:\Windows\system32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Manual	False
Problem Reports and Solutions Control Panel Support	wercplsupport	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	False
Windows Error Reporting Service	WerSvc	Stopped	C:\Windows\System32\svchost.exe -k WerSvcGroup	Share Process	Ignore	localSystem	Manual	False
WinHTTP Web Proxy Auto-Discovery Service	WinHttpAutoProxySvc	Stopped	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Windows Management Instrumentation	Winmgmt	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Ignore	localSystem	Auto	True
Windows Remote Management (WS-Management)	WinRM	Running	C:\Windows\System32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True
WMI Performance Adapter	wmiApSrv	Stopped	C:\Windows\system32\wbem\WmiApSrv.exe	Own Process	Normal	localSystem	Manual	False
Portable Device Enumerator Service	WPDBusEnum	Stopped	C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Windows Update	wuauclt	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
Windows Driver Foundation - User-mode Driver Framework	wudfsvc	Stopped	C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False



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Display Name	Name	State	Path	Type	Error Control	Start Name	Start Mode	Sta
Application Experience	AeLookupSvc	Stopped	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	False
Application Layer Gateway Service	ALG	Stopped	C:\Windows\System32\alg.exe	Own Process	Normal	NT AUTHORITY\LocalService	Manual	False
Application Identity	AppIDSvc	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT Authority\LocalService	Manual	False

Application Information	Appinfo	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	True
Application Management	AppMgmt	Stopped	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Windows Audio Endpoint Builder	AudioEndpointBuilder	Stopped	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Windows Audio	AudioSrv	Stopped	C:\Windows\System32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Base Filtering Engine	BFE	Running	C:\Windows\system32\svchost.exe -k LocalServiceNoNetwork	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
Background Intelligent Transfer Service	BITS	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Computer Browser	Browser	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Disabled	False
Certificate Propagation	CertPropSvc	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	True
Microsoft .NET Framework NGEN v2.0.50727_X86	clr_optimization_v2.0.50727_32	Stopped	C:\Windows\Microsoft.NET\Framework\v2.0.50727\mscorsvw.exe	Own Process	Ignore	LocalSystem	Manual	False
Microsoft .NET Framework NGEN v2.0.50727_X64	clr_optimization_v2.0.50727_64	Stopped	C:\Windows\Microsoft.NET\Framework64\v2.0.50727\mscorsvw.exe	Own Process	Ignore	LocalSystem	Manual	False
Cluster Service	ClusSvc	Stopped	C:\Windows\Cluster\clussvc.exe -s	Own Process	Normal	LocalSystem	Auto	False
COM+ System Application	COMSysApp	Running	C:\Windows\system32\dlhhost.exe /Processid:{02D4B3F1-FD88-11D1-960D-00805FC79235}	Own Process	Normal	LocalSystem	Manual	True
Cryptographic Services	CryptSvc	Running	C:\Windows\system32\svchost.exe -k NetworkService	Share Process	Normal	NT Authority\NetworkService	Auto	True
DCOM Server Process Launcher	DcomLaunch	Running	C:\Windows\system32\svchost.exe -k DcomLaunch	Share Process	Normal	LocalSystem	Auto	True
Disk Defragmenter	defragsvc	Stopped	C:\Windows\system32\svchost.exe -k defragsvc	Own Process	Normal	LocalSystem	Manual	False
DHCP Client	Dhcp	Running	C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT Authority\LocalService	Auto	True
DNS Client	Dnscache	Running	C:\Windows\system32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True
Wired AutoConfig	dot3svc	Stopped	C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Diagnostic Policy Service	DPS	Running	C:\Windows\System32\svchost.exe -k LocalServiceNoNetwork	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
Extensible Authentication Protocol	EapHost	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Encrypting File System (EFS)	EFS	Stopped	C:\Windows\System32\lsass.exe	Share Process	Normal	LocalSystem	Manual	False
Windows Event Log	eventlog	Running	C:\Windows\System32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
COM+ Event System	EventSystem	Running	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
Microsoft Fibre Channel Platform Registration Service	FCRegSvc	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Function Discovery Provider Host	fdPHost	Stopped	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Function Discovery Resource Publication	FDResPub	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Windows Font Cache Service	FontCache	Running	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True
Group Policy Client	gpsvc	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
Human Interface Device Access	hidserv	Stopped	C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Health Key and Certificate Management	hkmsvc	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
IKE and AuthIP IPsec Keying Modules	IKEEXT	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
PnP-X IP Bus	IPBusEnum	Stopped	C:\Windows\system32\svchost.exe -k	Share	Normal	LocalSystem	Disabled	False

Enumerator		LocalSystemNetworkRestricted	Process					
IP Helper	iphlpvc	Running C:\Windows\System32\svchost.exe -k NetSvc	Share Process	Normal	LocalSystem	Auto	True	
CNG Key Isolation	KeyIso	Stopped C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Manual	False	
KtmRm for Distributed Transaction Coordinator	KtmRm	Stopped C:\Windows\System32\svchost.exe -k NetworkServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\NetworkService	Manual	False	
Server	LanmanServer	Running C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True	
Workstation	LanmanWorkstation	Running C:\Windows\System32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True	
Link-Layer Topology Discovery Mapper	ltdsvc	Stopped C:\Windows\System32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False	
TCP/IP NetBIOS Helper	lmhosts	Running C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True	
Multimedia Class Scheduler	MMCSS	Stopped C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False	
Windows Firewall	MpsSvc	Running C:\Windows\system32\svchost.exe -k LocalServiceNoNetwork	Share Process	Normal	NT Authority\LocalService	Auto	True	
Distributed Transaction Coordinator	MSDTC	Running C:\Windows\System32\msdtc.exe	Own Process	Normal	NT AUTHORITY\NetworkService	Auto	True	
Microsoft iSCSI Initiator Service	MSISCSI	Running C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True	
Windows Installer	msiserver	Stopped C:\Windows\system32\msiexec.exe /V	Own Process	Normal	LocalSystem	Manual	False	
Network Access Protection Agent	napagent	Stopped C:\Windows\System32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Manual	False	
Netlogon	Netlogon	Running C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Auto	True	
Network Connections	Netman	Running C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	True	
Network List Service	netprofm	Running C:\Windows\System32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	True	
Network Location Awareness	NlaSvc	Running C:\Windows\System32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True	
Network Store Interface Service	nsi	Running C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT Authority\LocalService	Auto	True	
Hyper-V Networking Management Service	nvspwmi	Running C:\Windows\system32\svchost -k nvspwmi	Share Process	Normal	LocalSystem	Auto	True	
Performance Counter DLL Host	PerfHost	Stopped C:\Windows\SysWow64\perfhost.exe	Own Process	Normal	NT AUTHORITY\LocalService	Manual	False	
Performance Logs & Alerts	pla	Stopped C:\Windows\System32\svchost.exe -k LocalServiceNoNetwork	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False	
Plug and Play	PlugPlay	Running C:\Windows\system32\svchost.exe -k DcomLaunch	Share Process	Normal	LocalSystem	Auto	True	
IPsec Policy Agent	PolicyAgent	Running C:\Windows\system32\svchost.exe -k NetworkServiceNetworkRestricted	Share Process	Normal	NT Authority\NetworkService	Manual	True	
Power	Power	Running C:\Windows\system32\svchost.exe -k DcomLaunch	Share Process	Normal	LocalSystem	Auto	True	
User Profile Service	ProfSvc	Running C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True	
Protected Storage	ProtectedStorage	Stopped C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Manual	False	
Remote Access Auto Connection Manager	RasAuto	Stopped C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	False	
Remote Access Connection Manager	RasMan	Stopped C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	False	
Routing and Remote Access	RemoteAccess	Stopped C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Disabled	False	
Remote Registry	RemoteRegistry	Running C:\Windows\system32\svchost.exe -k regsvc	Share Process	Normal	NT AUTHORITY\LocalService	Auto	True	
RPC Endpoint Mapper	RpcEptMapper	Running C:\Windows\system32\svchost.exe -k RPCSS	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True	
Remote Procedure Call (RPC) Locator	RpcLocator	Stopped C:\Windows\system32\locator.exe	Own Process	Normal	NT AUTHORITY\NetworkService	Manual	False	

Remote Procedure Call (RPC)	RpcSs	Running	C:\Windows\system32\svchost.exe -k rpcss	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True
Resultant Set of Policy Provider	RSOPProv	Stopped	C:\Windows\system32\RSOPProv.exe	Share Process	Normal	LocalSystem	Manual	False
Special Administration Console Helper	sacsvr	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Security Accounts Manager	SamSs	Running	C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Auto	True
Smart Card	SCardSvr	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Task Scheduler	Schedule	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
Smart Card Removal Policy	SCPolicySvc	Stopped	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Secondary Logon	seclogon	Stopped	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
System Event Notification Service	SENS	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
Remote Desktop Configuration	SessionEnv	Running	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	localSystem	Manual	True
Internet Connection Sharing (ICS)	SharedAccess	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Disabled	False
Shell Hardware Detection	ShellHWDetection	Running	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Ignore	LocalSystem	Auto	True
SNMP Trap	SNMPTRAP	Stopped	C:\Windows\System32\snmptrap.exe	Own Process	Normal	NT AUTHORITY\LocalService	Manual	False
Print Spooler	Spooler	Running	C:\Windows\System32\spoolsv.exe	Own Process	Normal	LocalSystem	Auto	True
Software Protection	sppsvc	Running	C:\Windows\system32\sppsvc.exe	Own Process	Normal	NT AUTHORITY\NetworkService	Auto	True
SPP Notification Service	sppuinotify	Running	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	True
SSDP Discovery	SSDPSRV	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Disabled	False
Secure Socket Tunneling Protocol Service	SstpSvc	Stopped	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT Authority\LocalService	Manual	False
Microsoft Software Shadow Copy Provider	swprv	Stopped	C:\Windows\System32\svchost.exe -k swprv	Own Process	Normal	LocalSystem	Manual	False
Telephony	TapiSrv	Stopped	C:\Windows\System32\svchost.exe -k tapisrv	Own Process	Normal	NT AUTHORITY\NetworkService	Manual	False
TPM Base Services	TBS	Stopped	C:\Windows\System32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Remote Desktop Services	TermService	Running	C:\Windows\System32\svchost.exe -k termsvcs	Share Process	Normal	NT Authority\NetworkService	Manual	True
Thread Ordering Server	THREADORDER	Stopped	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
TP AutoConnect Service	TPAutoConnSvc	Stopped	"C:\Program Files\VMware\VMware Tools\TPAutoConnSvc.exe"	Own Process	Normal	LocalSystem	Manual	False
TP VC Gateway Service	TPVCGateway	Stopped	"C:\Program Files\VMware\VMware Tools\TPVCGateway.exe"	Own Process	Normal	LocalSystem	Manual	False
Distributed Link Tracking Client	TrkWks	Running	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Auto	True
Windows Modules Installer	TrustedInstaller	Stopped	C:\Windows\servicing\TrustedInstaller.exe	Own Process	Normal	localSystem	Manual	False
Interactive Services Detection	UI0Detect	Stopped	C:\Windows\system32\UI0Detect.exe	Own Process	Normal	LocalSystem	Manual	False
Remote Desktop Services UserMode Port Redirector	UmRdpService	Running	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	localSystem	Manual	True
UPnP Device Host	upnphost	Stopped	C:\Windows\system32\svchost.exe -k LocalServiceAndNoImpersonation	Share Process	Normal	NT AUTHORITY\LocalService	Disabled	False
Desktop Window Manager Session Manager	UxSms	Running	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	localSystem	Auto	True
Credential Manager	VaultSvc	Stopped	C:\Windows\system32\lsass.exe	Share Process	Normal	LocalSystem	Manual	False

Virtual Disk	vds	Stopped	C:\Windows\System32\vds.exe	Own Process	Normal	LocalSystem	Manual	False
VMware Alias Manager and Ticket Service	VGAuthService	Running	"C:\Program Files\VMware\VMware Tools\VMware VGuest\VGAuthService.exe"	Own Process	Normal	LocalSystem	Auto	True
Hyper-V Image Management Service	vhdsvc	Running	C:\Windows\system32\svchost -k virtsvcs	Share Process	Normal	LocalSystem	Auto	True
Hyper-V Virtual Machine Management	vmms	Running	C:\Windows\system32\vmms.exe	Own Process	Normal	LocalSystem	Auto	True
VMware Tools	VMTools	Running	"C:\Program Files\VMware\VMware Tools\vmtoolsd.exe"	Own Process	Normal	LocalSystem	Auto	True
VMware Snapshot Provider	vmvss	Stopped	C:\Windows\system32\dlhhost.exe /Processid: {90E12A0B-B8C3-4372-B716-407CED0DC004}	Own Process	Normal	LocalSystem	Manual	False
VMware Physical Disk Helper Service	VMware Physical Disk Helper Service	Running	"C:\Program Files\VMware\VMware Tools\vmacthlp.exe"	Own Process	Ignore	LocalSystem	Auto	True
Volume Shadow Copy	vss	Stopped	C:\Windows\system32\vssvc.exe	Own Process	Normal	LocalSystem	Manual	False
Windows Time	W32Time	Running	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	True
Windows Color System	WcsPlugInService	Stopped	C:\Windows\system32\svchost.exe -k wcsSvc	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Diagnostic Service Host	WdiServiceHost	Stopped	C:\Windows\System32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Diagnostic System Host	WdiSystemHost	Running	C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	True
Windows Event Collector	Wecsvc	Stopped	C:\Windows\system32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Manual	False
Problem Reports and Solutions Control Panel Support	wercplsupport	Stopped	C:\Windows\System32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Manual	False
Windows Error Reporting Service	WerSvc	Stopped	C:\Windows\System32\svchost.exe -k WerSvcGroup	Share Process	Ignore	LocalSystem	Manual	False
WinHTTP Web Proxy Auto-Discovery Service	WinHttpAutoProxySvc	Stopped	C:\Windows\system32\svchost.exe -k LocalService	Share Process	Normal	NT AUTHORITY\LocalService	Manual	False
Windows Management Instrumentation	Winmgmt	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Ignore	LocalSystem	Auto	True
Windows Remote Management (WS-Management)	WinRM	Running	C:\Windows\System32\svchost.exe -k NetworkService	Share Process	Normal	NT AUTHORITY\NetworkService	Auto	True
WMI Performance Adapter	wmiApSrv	Stopped	C:\Windows\system32\wbem\WmiApSrv.exe	Own Process	Normal	LocalSystem	Manual	False
Portable Device Enumerator Service	WPDBusEnum	Stopped	C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False
Windows Update	wuauerv	Running	C:\Windows\system32\svchost.exe -k netsvcs	Share Process	Normal	LocalSystem	Auto	True
Windows Driver Foundation - User-mode Driver Framework	wudfsvc	Stopped	C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted	Share Process	Normal	LocalSystem	Manual	False

[Back to Summary](#)
[Back to Top](#)

List Software Updates

List software updates that have been applied on each node.



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Gathering Software Updates for client1.cloud.com

Hotfix Id

KB976902

Description

Update

**client3.cloud.com**[Gathering Software Updates for client3.cloud.com](#)**Hotfix Id**

KB976902

Description

Update

[Back to Summary](#)[Back to Top](#)

List System Drivers

List the system drivers on each node.**client1.cloud.com**[Gathering System Drivers for client1.cloud.com](#)

Name	Description	Path	Version	Service Type	Started	Start Mode	State
1394ohci	1394 OHCI Compliant Host Controller	C:\Windows\system32\drivers\1394ohci.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
ACPI	Microsoft ACPI Driver	C:\Windows\system32\drivers\ACPI.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
AcpiPmi	ACPI Power Meter Driver	C:\Windows\system32\drivers\acpipmi.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
adp94xx	adp94xx	C:\Windows\system32\drivers\adp94xx.sys	1.6.6.4	Kernel Driver	False	Manual	Stopped
adpahci	adpahci	C:\Windows\system32\drivers\adpahci.sys	1.6.6.1	Kernel Driver	False	Manual	Stopped
adpu320	adpu320	C:\Windows\system32\drivers\adpu320.sys	7.2.0.0	Kernel Driver	False	Manual	Stopped
AFD	Ancillary Function Driver for Winsock	C:\Windows\system32\drivers\afd.sys	6.1.7601.17514	Kernel Driver	True	System	Running
agp440	Intel AGP Bus Filter	C:\Windows\system32\drivers\agp440.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
aliide	aliide	C:\Windows\system32\drivers\aliide.sys	1.2.0.0	Kernel Driver	False	Manual	Stopped
amdide	amdide	C:\Windows\system32\drivers\amdide.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
AmdK8	AMD K8 Processor Driver	C:\Windows\system32\drivers\amdk8.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
AmdPPM	AMD Processor Driver	C:\Windows\system32\drivers\amdppm.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
amdsata	amdsata	C:\Windows\system32\drivers\amdsata.sys	1.1.2.5	Kernel Driver	False	Manual	Stopped
amdsbs	amdsbs	C:\Windows\system32\drivers\amdsbs.sys	3.6.1540.127	Kernel Driver	False	Manual	Stopped
amdxata	amdxata	C:\Windows\system32\drivers\amdxata.sys	1.1.2.5	Kernel Driver	True	Boot	Running
AppID	AppID Driver	C:\Windows\system32\drivers\appid.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
arc	arc	C:\Windows\system32\drivers\arc.sys	5.2.0.10384	Kernel Driver	False	Manual	Stopped
arcsas	arcsas	C:\Windows\system32\drivers\arcsas.sys	5.2.0.16119	Kernel Driver	False	Manual	Stopped
AsyncMac	RAS Asynchronous Media Driver	C:\Windows\system32\DRIVERS\asynmac.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
atapi	IDE Channel	C:\Windows\system32\drivers\atapi.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
b06bdrv	Broadcom NetXtreme II VBD	C:\Windows\system32\drivers\bxvbda.sys	4.8.2.0	Kernel Driver	False	Manual	Stopped
b57nd60a	Broadcom NetXtreme Gigabit Ethernet - NDIS 6.0	C:\Windows\system32\DRIVERS\b57nd60a.sys	10.100.4.0	Kernel Driver	False	Manual	Stopped
Beep	Beep	C:\Windows\system32\drivers\Beep.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
blbdrive	blbdrive	C:\Windows\system32\DRIVERS\blbdrive.sys	6.1.7600.16385	Kernel Driver	True	System	Running
bowser	Browser Support Driver Brother USB	C:\Windows\system32\DRIVERS\bowser.sys	6.1.7600.16385	File System Driver	True	Manual	Running

BrFiltLo	Mass-Storage Lower Filter Driver	C:\Windows\system32\drivers\BrFiltLo.sys	1.10.0.2	Kernel Driver	False	Manual	Stopped
BrFiltUp	Brother USB Mass-Storage Upper Filter Driver	C:\Windows\system32\drivers\BrFiltUp.sys	1.4.0.1	Kernel Driver	False	Manual	Stopped
Brserid	Brother MFC Serial Port Interface Driver (WDM)	C:\Windows\system32\Drivers\Brserid.sys	1.0.1.6	Kernel Driver	False	Manual	Stopped
BrSerWdm	Brother WDM Serial driver	C:\Windows\system32 \Drivers\BrSerWdm.sys	1.0.0.20	Kernel Driver	False	Manual	Stopped
BrUsbMdm	Brother MFC USB Fax Only Modem	C:\Windows\system32 \Drivers\BrUsbMdm.sys	1.0.0.12	Kernel Driver	False	Manual	Stopped
BrUsbSer	Brother MFC USB Serial WDM Driver	C:\Windows\system32\Drivers\BrUsbSer.sys	1.0.1.3	Kernel Driver	False	Manual	Stopped
cdfs	CD/DVD File System Reader	C:\Windows\system32\DRIVERS\cdfs.sys	6.1.7600.16385	File System Driver	False	Disabled	Stopped
cdrom	CD-ROM Driver	C:\Windows\system32\DRIVERS\cdrom.sys	6.1.7601.17514	Kernel Driver	True	System	Running
CLFS	Common Log (CLFS)	C:\Windows\system32\CLFS.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
ClusDisk	Cluster Disk Driver	C:\Windows\system32 \DRIVERS\ClusDisk.sys	6.1.7601.17514	Kernel Driver	True	System	Running
CmBatt	Microsoft AC Adapter Driver	C:\Windows\system32\DRIVERS\CmBatt.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
cmdide	cmdide	C:\Windows\system32\drivers\cmdide.sys	2.0.7.0	Kernel Driver	False	Manual	Stopped
CNG	CNG	C:\Windows\system32\Drivers\cng.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
Compbatt	Microsoft Composite Battery Driver	C:\Windows\system32 \DRIVERS\compbatt.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
CompositeBus	Composite Bus Enumerator Driver	C:\Windows\system32 \DRIVERS\CompositeBus.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
crcdisk	Crcdisk Filter Driver	C:\Windows\system32\drivers\crcdisk.sys	6.1.7600.16385	Kernel Driver	False	Disabled	Stopped
CSVFilter	Cluster Shared Volume Mini-Filter Driver	C:\Windows\system32\drivers\CSVFilter.sys	6.1.7601.17514	File System Driver	True	Manual	Running
DfsC	DFS Namespace Client Driver	C:\Windows\system32\Drivers\dfsc.sys	6.1.7601.17514	File System Driver	True	System	Running
discache	System Attribute Cache	C:\Windows\system32\drivers\discache.sys	6.1.7600.16385	Kernel Driver	True	System	Running
Disk	Disk Driver	C:\Windows\system32\drivers\disk.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
dmvsc	dmvsc	C:\Windows\system32\drivers\dmvsc.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
drmkaud	Microsoft Trusted Audio Drivers	C:\Windows\system32\drivers\drmkaud.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
DXGKrnl	LDDM Graphics Subsystem	C:\Windows\system32\drivers\dxgkrnl.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
E1G60	Intel(R) PRO/1000 NDIS 6 Adapter Driver	C:\Windows\system32 \DRIVERS\E1G6032E.sys	8.4.1.0	Kernel Driver	True	Manual	Running
ebdrv	Broadcom NetXtreme II 10 GigE VBD	C:\Windows\system32\drivers\evbda.sys	4.8.13.0	Kernel Driver	False	Manual	Stopped
elxstor	elxstor	C:\Windows\system32\drivers\elxstor.sys	7.2.10.211	Kernel Driver	False	Manual	Stopped
ErrDev	Microsoft Hardware Error Device Driver	C:\Windows\system32\drivers\errdev.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
exfat	exFAT File System Driver	C:\Windows\system32\drivers\exfat.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
fastfat	FAT12/16/32 File System Driver	C:\Windows\system32\drivers\fastfat.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
fdc	Floppy Disk Controller Driver	C:\Windows\system32\DRIVERS\fdc.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
FileInfo	File Information FS MiniFilter	C:\Windows\system32\drivers\fileinfo.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
Filetrace	Filetrace	C:\Windows\system32\drivers\filetrace.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
flpydisk	Floppy Disk Driver	C:\Windows\system32 \DRIVERS\flpydisk.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
FitMgr	FitMgr	C:\Windows\system32\drivers\fltmgr.sys	6.1.7601.17514	File System Driver	True	Boot	Running
FsDepends	File System Dependency Minifilter	C:\Windows\system32 \drivers\FsDepends.sys	6.1.7600.16385	File System Driver	True	Manual	Running
gagp30kx	Microsoft Generic AGPv3.0 Filter for K8 Processor Platforms	C:\Windows\system32 \drivers\gagp30kx.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
HdAudAddService	Microsoft 1.1 UAA	C:\Windows\system32\drivers\HdAudio.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running

	Function Driver for High Definition Audio Service						
HDAudBus	Microsoft UAA Bus Driver for High Definition Audio	C:\Windows\system32\DRIVERS\HDAudBus.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
HidBatt	HID UPS Battery Driver	C:\Windows\system32\drivers\HidBatt.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
HidUsb	Microsoft HID Class Driver	C:\Windows\system32\DRIVERS\hidusb.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
HpSAMD	HpSAMD	C:\Windows\system32\drivers\HpSAMD.sys	6.12.6.64	Kernel Driver	False	Manual	Stopped
HTTP	HTTP	C:\Windows\system32\drivers\HTTP.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
hvboot	Hypervisor/Virtual Machine Support Driver	C:\Windows\system32\drivers\hvboot.sys	6.1.7601.17514	Kernel Driver	False	System	Stopped
hwpolicy	Hardware Policy Driver	C:\Windows\system32\drivers\hwpolicy.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
i8042prt	i8042 Keyboard and PS/2 Mouse Port Driver	C:\Windows\system32\DRIVERS\i8042prt.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
iaStorV	iaStorV	C:\Windows\system32\drivers\iaStorV.sys	8.6.2.1014	Kernel Driver	False	Manual	Stopped
iirsp	iirsp	C:\Windows\system32\drivers\iirsp.sys	5.4.22.0	Kernel Driver	False	Manual	Stopped
intelide	intelide	C:\Windows\system32\drivers\intelide.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
intelppm	Intel Processor Driver	C:\Windows\system32\DRIVERS\intelppm.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
ioatdma	Intel(R) QuickData Technology Device	C:\Windows\system32\Drivers\qd260x64.sys	1.2.78.3	Kernel Driver	False	Manual	Stopped
IpFilterDriver	IP Traffic Filter Driver	C:\Windows\system32\DRIVERS\ipfltdrv.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
IPMIDRV	IPMIDRV	C:\Windows\system32\drivers\IPMIDrv.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
IPNAT	IP Network Address Translator	C:\Windows\system32\drivers\ipnat.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
isapnp	isapnp	C:\Windows\system32\drivers\isapnp.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
iScsiPrt	iScsiPort Driver	C:\Windows\system32\DRIVERS\msiscsi.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
kbdclass	Keyboard Class Driver	C:\Windows\system32\DRIVERS\kbdclass.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
kbdhid	Keyboard HID Driver	C:\Windows\system32\drivers\kbdhid.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
KSecDD	KSecDD	C:\Windows\system32\Drivers\ksecdd.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
KSecPkg	KSecPkg	C:\Windows\system32\Drivers\ksecpkg.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
ksthunk	Kernel Streaming Thunks	C:\Windows\system32\drivers\ksthunk.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
ltdio	Link-Layer Topology Discovery Mapper I/O Driver	C:\Windows\system32\DRIVERS\ltdio.sys	6.1.7600.16385	Kernel Driver	True	Auto	Running
LSI_FC	LSI_FC	C:\Windows\system32\drivers\lsi_fc.sys	1.28.3.52	Kernel Driver	False	Manual	Stopped
LSI_SAS	LSI_SAS	C:\Windows\system32\drivers\lsi_sas.sys	1.28.3.52	Kernel Driver	True	Boot	Running
LSI_SAS2	LSI_SAS2	C:\Windows\system32\drivers\lsi_sas2.sys	2.0.2.71	Kernel Driver	False	Manual	Stopped
LSI_SCSI	LSI_SCSI	C:\Windows\system32\drivers\lsi_scsi.sys	1.28.3.67	Kernel Driver	False	Manual	Stopped
luafv	UAC File Virtualization	C:\Windows\system32\drivers\luafv.sys	6.1.7600.16385	File System Driver	True	Auto	Running
megasas	megasas	C:\Windows\system32\drivers\megasas.sys	4.5.1.64	Kernel Driver	False	Manual	Stopped
MegaSR	MegaSR	C:\Windows\system32\drivers\MegaSR.sys	13.5.409.2009	Kernel Driver	False	Manual	Stopped
Modem	Modem	C:\Windows\system32\drivers\modem.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
monitor	Microsoft Monitor Class Function Driver Service	C:\Windows\system32\DRIVERS\monitor.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
mouclass	Mouse Class Driver	C:\Windows\system32\DRIVERS\mouclass.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
mouhid	Mouse HID Driver	C:\Windows\system32\DRIVERS\mouhid.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
mountmgr	Mount Point Manager	C:\Windows\system32\drivers\mountmgr.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
mpio	mpio	C:\Windows\system32\drivers\mpio.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
mpsdrv	Windows Firewall Authorization Driver	C:\Windows\system32\drivers\mpsdrv.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
mrxsmb	SMB MiniRedirector Wrapper and Engine	C:\Windows\system32\DRIVERS\mrxsmb.sys	6.1.7601.17514	File System Driver	True	Manual	Running
mrxsmb10	SMB 1.x	C:\Windows\system32	6.1.7601.17514	File System Driver	True	Manual	Running

mrxsmb20	MiniRedirector	\\DRIVERS\\mrxsmb10.sys					
	SMB 2.0 MiniRedirector	C:\\Windows\\system32\\DRIVERS\\mrxsmb20.sys	6.1.7601.17514	File System Driver	True	Manual	Running
msahci	msahci	C:\\Windows\\system32\\drivers\\msahci.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
msdsm	msdsm	C:\\Windows\\system32\\drivers\\msdsm.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
Msfs	Msfs	C:\\Windows\\system32\\drivers\\Msfs.sys	6.1.7600.16385	File System Driver	True	System	Running
mshidkmdf	Pass-through HID to KMDF Filter Driver	C:\\Windows\\system32\\drivers\\mshidkmdf.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
msisadrv	msisadrv	C:\\Windows\\system32\\drivers\\msisadrv.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
MSKSSRV	Microsoft Streaming Service Proxy	C:\\Windows\\system32\\drivers\\MSKSSRV.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
MSPCLOCK	Microsoft Streaming Clock Proxy	C:\\Windows\\system32\\drivers\\MSPCLOCK.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
MSPQM	Microsoft Streaming Quality Manager Proxy	C:\\Windows\\system32\\drivers\\MSPQM.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
MsRPC	MsRPC	C:\\Windows\\system32\\drivers\\MsRPC.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
mssmbios	Microsoft System Management BIOS Driver	C:\\Windows\\system32\\DRIVERS\\mssmbios.sys	6.1.7600.16385	Kernel Driver	True	System	Running
MSTEE	Microsoft Streaming Tee/Sink-to-Sink Converter	C:\\Windows\\system32\\drivers\\MSTEE.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
MTConfig	Microsoft Input Configuration Driver	C:\\Windows\\system32\\drivers\\MTConfig.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
Mup	Mup	C:\\Windows\\system32\\Drivers\\mup.sys	6.1.7600.16385	File System Driver	True	Boot	Running
NDIS	NDIS System Driver	C:\\Windows\\system32\\drivers\\ndis.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
NdisCap	NDIS Capture LightWeight Filter	C:\\Windows\\system32\\DRIVERS\\ndiscap.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
NdisTapi	Remote Access NDIS TAPI Driver	C:\\Windows\\system32\\DRIVERS\\ndistapi.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
Ndisuio	NDIS Usermode I/O Protocol	C:\\Windows\\system32\\DRIVERS\\ndisuio.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
NdisWan	Remote Access NDIS WAN Driver	C:\\Windows\\system32\\DRIVERS\\ndiswan.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
NDProxy	NDIS Proxy	C:\\Windows\\system32\\drivers\\NDProxy.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
NetBIOS	NetBIOS Interface	C:\\Windows\\system32\\DRIVERS\\netbios.sys	6.1.7600.16385	File System Driver	True	System	Running
NetBT	NetBT	C:\\Windows\\system32\\DRIVERS\\netbt.sys	6.1.7601.17514	Kernel Driver	True	System	Running
Netft	Cluster Virtual Miniport Driver	C:\\Windows\\system32\\DRIVERS\\netft.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
nfrd960	nfrd960	C:\\Windows\\system32\\drivers\\nfrd960.sys	7.10.0.0	Kernel Driver	False	Manual	Stopped
Npfs	Npfs	C:\\Windows\\system32\\drivers\\Npfs.sys	6.1.7600.16385	File System Driver	True	System	Running
nsiproxy	NSI proxy service driver.	C:\\Windows\\system32\\drivers\\nsiproxy.sys	6.1.7600.16385	Kernel Driver	True	System	Running
Ntfs	Ntfs	C:\\Windows\\system32\\drivers\\Ntfs.sys	6.1.7601.17514	File System Driver	True	Manual	Running
Null	Null	C:\\Windows\\system32\\drivers\\Null.sys	6.1.7600.16385	Kernel Driver	True	System	Running
nvraid	nvraid	C:\\Windows\\system32\\drivers\\nvraid.sys	10.6.0.18	Kernel Driver	False	Manual	Stopped
nvstor	nvstor	C:\\Windows\\system32\\drivers\\nvstor.sys	10.6.0.18	Kernel Driver	False	Manual	Stopped
nv_agp	NVIDIA nForce AGP Bus Filter	C:\\Windows\\system32\\drivers\\nv_agp.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
ohci1394	1394 OHCI Compliant Host Controller (Legacy)	C:\\Windows\\system32\\drivers\\ohci1394.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
Parport	Parallel port driver	C:\\Windows\\system32\\drivers\\parport.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
partmgr	Partition Manager	C:\\Windows\\system32\\drivers\\partmgr.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
passthruarser	PassthroughParser	C:\\Windows\\system32\\drivers\\passthruarser.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
pci	PCI Bus Driver	C:\\Windows\\system32\\drivers\\pci.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
pciide	pciide	C:\\Windows\\system32\\drivers\\pciide.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
pcmcia	pcmcia	C:\\Windows\\system32\\drivers\\pcmcia.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
pcw	Performance Counters for Windows Driver	C:\\Windows\\system32\\drivers\\pcw.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
PEAUTH	PEAUTH WAN Miniport	C:\\Windows\\system32\\drivers\\peauth.sys C:\\Windows\\system32	6.1.7600.16385	Kernel Driver	True	Auto	Running

PptpMiniport	(PPTP)	\DRIVERS\raspptp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
Processor	Processor Driver	C:\Windows\system32\drivers\processr.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
Psched	QoS Packet Scheduler	C:\Windows\system32\DRIVERS\pacer.sys	6.1.7601.17514	Kernel Driver	True	System	Running
ql2300	ql2300	C:\Windows\system32\drivers\ql2300.sys	9.1.8.6	Kernel Driver	False	Manual	Stopped
ql40xx	ql40xx	C:\Windows\system32\drivers\ql40xx.sys	2.1.3.20	Kernel Driver	False	Manual	Stopped
RasAcd	Remote Access Auto Connection Driver	C:\Windows\system32\DRIVERS\rasacd.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
RasAgileVpn	WAN Miniport (IKEv2)	C:\Windows\system32\DRIVERS\AgileVpn.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
Rasl2tp	WAN Miniport (L2TP)	C:\Windows\system32\DRIVERS\rasl2tp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
RasPppoe	Remote Access PPPOE Driver	C:\Windows\system32\DRIVERS\rasppoe.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
RasSstp	WAN Miniport (SSTP)	C:\Windows\system32\DRIVERS\rassstp.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
rdbss	Redirected Buffering Sub System	C:\Windows\system32\DRIVERS\rdbss.sys	6.1.7601.17514	File System Driver	True	System	Running
rdpbus	Remote Desktop Device Redirector Bus Driver	C:\Windows\system32\DRIVERS\rdpbus.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
RDPCDD	RDPCDD	C:\Windows\system32\DRIVERS\RDPCDD.sys	6.1.7600.16385	Kernel Driver	True	System	Running
RDPDR	Terminal Server Device Redirector Driver	C:\Windows\system32\drivers\rdpdr.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
RDPCDD	RDP Encoder Mirror Driver	C:\Windows\system32\drivers\rdpencdd.sys	6.1.7600.16385	Kernel Driver	True	System	Running
RDPPREFMP	Reflector Display Driver used to gain access to graphics data	C:\Windows\system32\drivers\rdpprefmp.sys	6.1.7600.16385	Kernel Driver	True	System	Running
RDPWD	RDP Winstation Driver	C:\Windows\system32\drivers\RDPWD.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
rspnldr	Link-Layer Topology Discovery Responder	C:\Windows\system32\DRIVERS\rspnldr.sys	6.1.7600.16385	Kernel Driver	True	Auto	Running
s3cap	s3cap	C:\Windows\system32\drivers\vms3cap.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
sacdrv	sacdrv	C:\Windows\system32\DRIVERS\sacdrv.sys	6.1.7600.16385	Kernel Driver	False	Boot	Stopped
sbp2port	sbp2port	C:\Windows\system32\drivers\sbp2port.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
scfilter	Smart card PnP Class Filter Driver	C:\Windows\system32\DRIVERS\scfilter.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
secdrv	Security Driver	C:\Windows\system32\drivers\secdrv.sys	4.3.86.0	Kernel Driver	True	Auto	Running
Serenum	Serenum Filter Driver	C:\Windows\system32\DRIVERS\serenum.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
Serial	Serial port driver	C:\Windows\system32\DRIVERS\serial.sys	6.1.7600.16385	Kernel Driver	True	System	Running
sermouse	Serial Mouse Driver	C:\Windows\system32\drivers\sermouse.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
sffdisk	SFF Storage Class Driver	C:\Windows\system32\drivers\sffdisk.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
sffp_mmc	SFF Storage Protocol Driver for MMC	C:\Windows\system32\drivers\sffp_mmc.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
sffp_sd	SFF Storage Protocol Driver for SDBus	C:\Windows\system32\drivers\sffp_sd.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
sfloppy	High-Capacity Floppy Disk Drive	C:\Windows\system32\drivers\sfloppy.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
SISraid2	SISraid2	C:\Windows\system32\drivers\SISraid2.sys	5.1.1039.2600	Kernel Driver	False	Manual	Stopped
SISraid4	SISraid4	C:\Windows\system32\drivers\sisraid4.sys	5.1.1039.3600	Kernel Driver	False	Manual	Stopped
Smb	Message-oriented TCP/IP and TCP/IPv6 Protocol (SMB session)	C:\Windows\system32\DRIVERS\smb.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
spldr	Security Processor Loader Driver	C:\Windows\system32\drivers\spldr.sys	6.1.7127.0	Kernel Driver	True	Boot	Running
srv	Server SMB 1.xxx Driver	C:\Windows\system32\DRIVERS\srv.sys	6.1.7601.17514	File System Driver	True	Manual	Running
srv2	Server SMB 2.xxx Driver	C:\Windows\system32\DRIVERS\srv2.sys	6.1.7601.17514	File System Driver	True	Manual	Running
srvnet	srvnet	C:\Windows\system32\DRIVERS\srvnet.sys	6.1.7601.17514	File System Driver	True	Manual	Running

stexstor	stexstor	C:\Windows\system32\drivers\stexstor.sys	5.0.1.1	Kernel Driver	False	Manual	Stopped
storflt	Disk Virtual Machine Bus Acceleration Filter Driver	C:\Windows\system32\drivers\vmstorfl.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
storvsc	storvsc	C:\Windows\system32\drivers\storvsc.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
storvsp	storvsp	C:\Windows\system32\DRIVERS\storvsp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
swenum	Software Bus Driver	C:\Windows\system32\DRIVERS\swenum.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
Tcpip	TCP/IP Protocol Driver	C:\Windows\system32\drivers\tcpip.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
TCPIP6	Microsoft IPv6 Protocol Driver	C:\Windows\system32\DRIVERS\tcpip.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
tcpipreg	TCP/IP Registry Compatibility	C:\Windows\system32\drivers\tcpipreg.sys	6.1.7601.17514	Kernel Driver	True	Auto	Running
TDPIPE	TDPIPE	C:\Windows\system32\drivers\tdpipe.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
TDTCP	TDTCP	C:\Windows\system32\drivers\tdtcp.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
tdx	NetIO Legacy TDI Support Driver	C:\Windows\system32\DRIVERS\tdx.sys	6.1.7601.17514	Kernel Driver	True	System	Running
TermDD	Terminal Device Driver	C:\Windows\system32\DRIVERS\termdd.sys	6.1.7601.17514	Kernel Driver	True	System	Running
tssecsrv	Remote Desktop Services Security Filter Driver	C:\Windows\system32\DRIVERS\tssecsrv.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
TsUsbFlt	TsUsbFlt	C:\Windows\system32\drivers\tsusbflt.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
TsUsbGD	Remote Desktop Generic USB Device	C:\Windows\system32\drivers\TsUsbGD.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
tunnel	Microsoft Tunnel Miniport Adapter Driver	C:\Windows\system32\DRIVERS\tunnel.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
uagp35	Microsoft AGPv3.5 Filter	C:\Windows\system32\drivers\uagp35.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
udfs	udfs	C:\Windows\system32\DRIVERS\udfs.sys	6.1.7601.17514	File System Driver	False	Disabled	Stopped
uliagpkx	Uli AGP Bus Filter	C:\Windows\system32\drivers\uliagpkx.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
umbus	UMBus Enumerator Driver	C:\Windows\system32\DRIVERS\umbus.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
UmPass	Microsoft UMPass Driver	C:\Windows\system32\drivers\umpass.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
usbccgp	Microsoft USB Generic Parent Driver	C:\Windows\system32\DRIVERS\usbccgp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
usbehci	Microsoft USB 2.0 Enhanced Host Controller Miniport Driver	C:\Windows\system32\DRIVERS\usbehci.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
usbhub	Microsoft USB Standard Hub Driver	C:\Windows\system32\DRIVERS\usbhub.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
usbohci	Microsoft USB Open Host Controller Miniport Driver	C:\Windows\system32\drivers\usbohci.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
usbprint	Microsoft USB PRINTER Class	C:\Windows\system32\drivers\usbprint.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
USBSTOR	USB Mass Storage Driver	C:\Windows\system32\drivers\USBSTOR.SYS	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
usbuhci	Microsoft USB Universal Host Controller Miniport Driver	C:\Windows\system32\DRIVERS\usbuhci.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
vdrvroot	Microsoft Virtual Drive Enumerator Driver	C:\Windows\system32\drivers\vdrvroot.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
vga	vga	C:\Windows\system32\DRIVERS\vgapnp.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
VgaSave	VgaSave	C:\Windows\system32\drivers\vga.sys	6.1.7600.16385	Kernel Driver	True	System	Running
vhdmp	vhdmp	C:\Windows\system32\DRIVERS\vhdmp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
vhdparser	vhdparser	C:\Windows\system32\drivers\vhdparser.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
viaide	viaide	C:\Windows\system32\drivers\viaide.sys	6.0.6000.170	Kernel Driver	False	Manual	Stopped
Vid	Vid	C:\Windows\system32\DRIVERS\Vid.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
vm3dmp	vm3dmp	C:\Windows\system32\DRIVERS\vm3dmp.sys	8.15.1.48	Kernel Driver	True	Manual	Running
vmbus	Virtual Machine Bus	C:\Windows\system32\DRIVERS\vmbus.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped

VMBusHID	VMBusHID	C:\Windows\system32\drivers\VMBusHID.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
vmci	VMware VMCI Bus Driver	C:\Windows\system32\DRIVERS\vmci.sys	9.7.1.0	Kernel Driver	True	Boot	Running
vmhgfs	VMware Host Guest Client Redirector	C:\Windows\system32\drivers\vmhgfs.sys	11.0.0.0	File System Driver	True	System	Running
VMMEMCTL	Memory Control Driver	\\?\C:\Program Files\Common Files\VMware\Drivers\memctl\vmemctl.sys	7.3.5.0	Kernel Driver	True	Auto	Running
vmmouse	VMware Pointing Device	C:\Windows\system32\DRIVERS\vmmouse.sys	12.5.2.0	Kernel Driver	True	Manual	Running
vmrawdsk	VMware Vista Physical Disk Helper	\\?\C:\Program Files\VMware\VMware Tools\vmrawdsk.sys	0.9.9.0	Kernel Driver	True	System	Running
VMSMP	VMSMP	C:\Windows\system32\DRIVERS\vmswitch.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
VMSP	VMSP	C:\Windows\system32\DRIVERS\vmswitch.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
vmusbmouse	VMware USB Pointing Device	C:\Windows\system32\DRIVERS\vmusbmouse.sys	12.5.4.0	Kernel Driver	True	Manual	Running
volmgr	Volume Manager Driver	C:\Windows\system32\drivers\volmgr.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
volmgrx	Dynamic Volume Manager	C:\Windows\system32\drivers\volmgrx.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
volsnap	Storage volumes	C:\Windows\system32\drivers\volsnap.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
vsmraid	vsmraid	C:\Windows\system32\drivers\vsmraid.sys	6.0.6000.6210	Kernel Driver	False	Manual	Stopped
vsock	vSockets Driver	C:\Windows\system32\drivers\vsock.sys	9.7.0.0	Kernel Driver	True	Boot	Running
WacomPen	Wacom Serial Pen HID Driver	C:\Windows\system32\drivers\wacompen.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
WANARP	Remote Access IP ARP Driver	C:\Windows\system32\DRIVERS\wanarp.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
Wanarpv6	Remote Access IPv6 ARP Driver	C:\Windows\system32\DRIVERS\wanarp.sys	6.1.7601.17514	Kernel Driver	True	System	Running
Wd	Wd	C:\Windows\system32\drivers\wd.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
Wdf01000	Kernel Mode Driver Frameworks service	C:\Windows\system32\drivers\Wdf01000.sys	1.9.7600.16385	Kernel Driver	True	Boot	Running
WfpLwf	WFP Lightweight Filter	C:\Windows\system32\DRIVERS\wfpLwf.sys	6.1.7600.16385	Kernel Driver	True	System	Running
WIMMount	WIMMount	C:\Windows\system32\drivers\wimmount.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
WmiAcpi	Microsoft Windows Management Interface for ACPI	C:\Windows\system32\drivers\wmiaapi.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
ws2ifsl	Windows Socket 2.0 Non-IFS Service Provider Support Environment	C:\Windows\system32\drivers\ws2ifsl.sys	6.1.7600.16385	Kernel Driver	True	System	Running
WudfPf	User Mode Driver Frameworks Platform Driver	C:\Windows\system32\drivers\WudfPf.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped



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Name	Description	Path	Version	Service Type	Started	Start Mode	State
1394ohci	1394 OHCI Compliant Host Controller	C:\Windows\system32\drivers\1394ohci.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
ACPI	Microsoft ACPI Driver	C:\Windows\system32\drivers\ACPI.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
AcpiPmi	ACPI Power Meter Driver	C:\Windows\system32\drivers\acpipmi.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
adp94xx	adp94xx	C:\Windows\system32\drivers\adp94xx.sys	1.6.6.4	Kernel Driver	False	Manual	Stopped
adpahci	adpahci	C:\Windows\system32\drivers\adpahci.sys	1.6.6.1	Kernel Driver	False	Manual	Stopped
adpu320	adpu320	C:\Windows\system32\drivers\adpu320.sys	7.2.0.0	Kernel Driver	False	Manual	Stopped
AFD	Ancillary Function Driver for Winsock	C:\Windows\system32\drivers\afd.sys	6.1.7601.17514	Kernel Driver	True	System	Running
agg440	Intel AGP Bus	C:\Windows\system32\drivers\agg440.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped

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aliide	aliide	C:\Windows\system32\drivers\aliide.sys	1.2.0.0	Kernel Driver	False	Manual	Stopped
amdide	amdide	C:\Windows\system32\drivers\amdide.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
AmdK8	AMD K8 Processor Driver	C:\Windows\system32\drivers\amdk8.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
AmdPPM	AMD Processor Driver	C:\Windows\system32\drivers\amdppm.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
amdsata	amdsata	C:\Windows\system32\drivers\amdsata.sys	1.1.2.5	Kernel Driver	False	Manual	Stopped
amdsbs	amdsbs	C:\Windows\system32\drivers\amdsbs.sys	3.6.1540.127	Kernel Driver	False	Manual	Stopped
amdxata	amdxata	C:\Windows\system32\drivers\amdxata.sys	1.1.2.5	Kernel Driver	True	Boot	Running
AppID	AppID Driver	C:\Windows\system32\drivers\appid.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
arc	arc	C:\Windows\system32\drivers\arc.sys	5.2.0.10384	Kernel Driver	False	Manual	Stopped
arcsas	arcsas	C:\Windows\system32\drivers\arcsas.sys	5.2.0.16119	Kernel Driver	False	Manual	Stopped
AsyncMac	RAS Asynchronous Media Driver	C:\Windows\system32\DRIVERS\asynmac.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
atapi	IDE Channel	C:\Windows\system32\drivers\atapi.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
b06bdrv	Broadcom NetXtreme II VBD	C:\Windows\system32\drivers\bxvbda.sys	4.8.2.0	Kernel Driver	False	Manual	Stopped
b57nd60a	Broadcom NetXtreme Gigabit Ethernet - NDIS 6.0	C:\Windows\system32\DRIVERS\b57nd60a.sys	10.100.4.0	Kernel Driver	False	Manual	Stopped
Beep	Beep	C:\Windows\system32\drivers\Beep.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
blbdrive	blbdrive	C:\Windows\system32\DRIVERS\blbdrive.sys	6.1.7600.16385	Kernel Driver	True	System	Running
browser	Browser Support Driver	C:\Windows\system32\DRIVERS\browser.sys	6.1.7600.16385	File System Driver	True	Manual	Running
BrFiltLo	Brother USB Mass-Storage Lower Filter Driver	C:\Windows\system32\drivers\BrFiltLo.sys	1.10.0.2	Kernel Driver	False	Manual	Stopped
BrFiltUp	Brother USB Mass-Storage Upper Filter Driver	C:\Windows\system32\drivers\BrFiltUp.sys	1.4.0.1	Kernel Driver	False	Manual	Stopped
Brserid	Brother MFC Serial Port Interface Driver (WDM)	C:\Windows\system32\DRIVERS\Brserid.sys	1.0.1.6	Kernel Driver	False	Manual	Stopped
BrSerWdm	Brother WDM Serial driver	C:\Windows\system32\DRIVERS\BrSerWdm.sys	1.0.0.20	Kernel Driver	False	Manual	Stopped
BrUsbMdm	Brother MFC USB Fax Only Modem	C:\Windows\system32\DRIVERS\BrUsbMdm.sys	1.0.0.12	Kernel Driver	False	Manual	Stopped
BrUsbSer	Brother MFC USB Serial WDM Driver	C:\Windows\system32\DRIVERS\BrUsbSer.sys	1.0.1.3	Kernel Driver	False	Manual	Stopped
cdfs	CD/DVD File System Reader	C:\Windows\system32\DRIVERS\cdfs.sys	6.1.7600.16385	File System Driver	False	Disabled	Stopped
cdrom	CD-ROM Driver	C:\Windows\system32\DRIVERS\cdrom.sys	6.1.7601.17514	Kernel Driver	True	System	Running
CLFS	Common Log (CLFS)	C:\Windows\system32\CLFS.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
ClusDisk	Cluster Disk Driver	C:\Windows\system32\DRIVERS\ClusDisk.sys	6.1.7601.17514	Kernel Driver	True	System	Running
CmBatt	Microsoft AC Adapter Driver	C:\Windows\system32\DRIVERS\CmBatt.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
cmdide	cmdide	C:\Windows\system32\drivers\cmdide.sys	2.0.7.0	Kernel Driver	False	Manual	Stopped
CNG	CNG	C:\Windows\system32\DRIVERS\cng.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
Compbatt	Microsoft Composite Battery Driver	C:\Windows\system32\DRIVERS\compbatt.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
CompositeBus	Composite Bus Enumerator Driver	C:\Windows\system32\DRIVERS\CompositeBus.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
crcdisk	Crcdisk Filter Driver	C:\Windows\system32\drivers\crcdisk.sys	6.1.7600.16385	Kernel Driver	False	Disabled	Stopped
CSVFilter	Cluster Shared Volume Mini-Filter Driver	C:\Windows\system32\drivers\CSVFilter.sys	6.1.7601.17514	File System Driver	True	Manual	Running
DfsC	DFS Namespace Client Driver	C:\Windows\system32\DRIVERS\dfsc.sys	6.1.7601.17514	File System Driver	True	System	Running
discache	System Attribute Cache	C:\Windows\system32\drivers\discache.sys	6.1.7600.16385	Kernel Driver	True	System	Running
Disk	Disk Driver	C:\Windows\system32\drivers\disk.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
dmvsc	dmvsc	C:\Windows\system32\drivers\dmvsc.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
drmkaud	Microsoft Trusted Audio Drivers	C:\Windows\system32\drivers\drmkaud.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
DXGKrnl	LDDM Graphics	C:\Windows\system32\drivers\dxgkrnl.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running

E1G60	Subsystem Intel(R) PRO/1000 NDIS 6 Adapter Driver	C:\Windows\system32 \DRIVERS\E1G6032E.sys	8.4.1.0	Kernel Driver	True	Manual	Running
ebdrv	Broadcom NetXtreme II 10 GigE VBD	C:\Windows\system32\drivers\evbda.sys	4.8.13.0	Kernel Driver	False	Manual	Stopped
elxstor	elxstor	C:\Windows\system32\drivers\elxstor.sys	7.2.10.211	Kernel Driver	False	Manual	Stopped
ErrDev	Microsoft Hardware Error Device Driver	C:\Windows\system32\drivers\errdev.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
exfat	exFAT File System Driver	C:\Windows\system32\drivers\exfat.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
fastfat	FAT12/16/32 File System Driver	C:\Windows\system32\drivers\fastfat.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
fdc	Floppy Disk Controller Driver	C:\Windows\system32\DRIVERS\fdc.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
FileInfo	File Information FS MiniFilter	C:\Windows\system32\drivers\fileinfo.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
Filetrace	Filetrace	C:\Windows\system32\drivers\filetrace.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
flpydisk	Floppy Disk Driver	C:\Windows\system32 \DRIVERS\flpydisk.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
FltMgr	FltMgr	C:\Windows\system32\drivers\fltmgr.sys	6.1.7601.17514	File System Driver	True	Boot	Running
FsDepends	File System Dependency Minifilter	C:\Windows\system32 \drivers\FsDepends.sys	6.1.7600.16385	File System Driver	True	Manual	Running
gagp30kx	Microsoft Generic AGPv3.0 Filter for K8 Processor Platforms	C:\Windows\system32 \drivers\gagp30kx.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
HdAudAddService	Microsoft 1.1 UAA Function Driver for High Definition Audio Service	C:\Windows\system32\drivers\HdAudio.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
HDAudBus	Microsoft UAA Bus Driver for High Definition Audio	C:\Windows\system32 \DRIVERS\HDAudBus.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
HidBatt	HID UPS Battery Driver	C:\Windows\system32\drivers\HidBatt.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
HidUsb	Microsoft HID Class Driver	C:\Windows\system32\DRIVERS\hidusb.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
HpSAMD	HpSAMD	C:\Windows\system32\drivers\HpSAMD.sys	6.12.6.64	Kernel Driver	False	Manual	Stopped
HTTP	HTTP	C:\Windows\system32\drivers\HTTP.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
hvboot	Hypervisor/Virtual Machine Support Driver	C:\Windows\system32\drivers\hvboot.sys	6.1.7601.17514	Kernel Driver	False	System	Stopped
hwpolicy	Hardware Policy Driver	C:\Windows\system32\drivers\hwpolicy.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
i8042prt	i8042 Keyboard and PS/2 Mouse Port Driver	C:\Windows\system32 \DRIVERS\i8042prt.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
iaStorV	iaStorV	C:\Windows\system32\drivers\iaStorV.sys	8.6.2.1014	Kernel Driver	False	Manual	Stopped
iirsp	iirsp	C:\Windows\system32\drivers\iirsp.sys	5.4.22.0	Kernel Driver	False	Manual	Stopped
intelide	intelide	C:\Windows\system32\drivers\intelide.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
intelppm	Intel Processor Driver	C:\Windows\system32 \DRIVERS\intelppm.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
ioatdma	Intel(R) QuickData Technology Device	C:\Windows\system32 \Drivers\qd260x64.sys	1.2.78.3	Kernel Driver	False	Manual	Stopped
IpFilterDriver	IP Traffic Filter Driver	C:\Windows\system32\DRIVERS\ipfltdrv.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
IPMIDRV	IPMIDRV	C:\Windows\system32\drivers\IPMIDrv.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
IPNAT	IP Network Address Translator	C:\Windows\system32\drivers\ipnat.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
isapnp	isapnp	C:\Windows\system32\drivers\isapnp.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
iScsiPrt	iScsiPort Driver	C:\Windows\system32\DRIVERS\msiscsi.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
kbdclass	Keyboard Class Driver	C:\Windows\system32 \DRIVERS\kbdclass.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
kbdhid	Keyboard HID Driver	C:\Windows\system32\drivers\kbdhid.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
KSecDD	KSecDD	C:\Windows\system32\Drivers\ksecdd.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
KSecPkg	KSecPkg	C:\Windows\system32\Drivers\ksecpkg.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
ksthunk	Kernel Streaming Thunks Link-Layer	C:\Windows\system32\drivers\ksthunk.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running

Iltidio	Topology Discovery Mapper I/O Driver	C:\Windows\system32\DRIVERS\Iltidio.sys	6.1.7600.16385	Kernel Driver	True	Auto	Running
LSI_FC	LSI_FC	C:\Windows\system32\drivers\lsi_fc.sys	1.28.3.52	Kernel Driver	False	Manual	Stopped
LSI_SAS	LSI_SAS	C:\Windows\system32\drivers\lsi_sas.sys	1.28.3.52	Kernel Driver	True	Boot	Running
LSI_SAS2	LSI_SAS2	C:\Windows\system32\drivers\lsi_sas2.sys	2.0.2.71	Kernel Driver	False	Manual	Stopped
LSI_SCSI	LSI_SCSI	C:\Windows\system32\drivers\lsi_scsi.sys	1.28.3.67	Kernel Driver	False	Manual	Stopped
luafv	UAC File Virtualization	C:\Windows\system32\drivers\luafv.sys	6.1.7600.16385	File System Driver	True	Auto	Running
megasas	megasas	C:\Windows\system32\drivers\megasas.sys	4.5.1.64	Kernel Driver	False	Manual	Stopped
MegaSR	MegaSR	C:\Windows\system32\drivers\MegaSR.sys	13.5.409.2009	Kernel Driver	False	Manual	Stopped
Modem	Modem	C:\Windows\system32\drivers\modem.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
monitor	Microsoft Monitor Class Function Driver Service	C:\Windows\system32 \DRIVERS\monitor.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
mouclass	Mouse Class Driver	C:\Windows\system32 \DRIVERS\mouclass.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
mouhid	Mouse HID Driver	C:\Windows\system32\DRIVERS\mouhid.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
mountmgr	Mount Point Manager	C:\Windows\system32 \drivers\mountmgr.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
mpio	mpio	C:\Windows\system32\drivers\mpio.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
mpsdrv	Windows Firewall Authorization Driver	C:\Windows\system32\drivers\mpsdrv.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
mrx smb	SMB MiniRedirector Wrapper and Engine	C:\Windows\system32 \DRIVERS\mrx smb.sys	6.1.7601.17514	File System Driver	True	Manual	Running
mrx smb10	SMB 1.x MiniRedirector	C:\Windows\system32 \DRIVERS\mrx smb10.sys	6.1.7601.17514	File System Driver	True	Manual	Running
mrx smb20	SMB 2.0 MiniRedirector	C:\Windows\system32 \DRIVERS\mrx smb20.sys	6.1.7601.17514	File System Driver	True	Manual	Running
msahci	msahci	C:\Windows\system32\drivers\msahci.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
msdsm	msdsm	C:\Windows\system32\drivers\msdsm.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
Msfs	Msfs	C:\Windows\system32\drivers\Msfs.sys	6.1.7600.16385	File System Driver	True	System	Running
mshidkmdf	Pass-through HID to KMDF Filter Driver	C:\Windows\system32 \drivers\mshidkmdf.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
msisadrv	msisadrv	C:\Windows\system32\drivers\msisadrv.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
MSKSSRV	Microsoft Streaming Service Proxy	C:\Windows\system32 \drivers\MSKSSRV.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
MSPCLOCK	Microsoft Streaming Clock Proxy	C:\Windows\system32 \drivers\MSPCLOCK.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
MSPQM	Microsoft Streaming Quality Manager Proxy	C:\Windows\system32\drivers\MSPQM.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
MsRPC	MsRPC	C:\Windows\system32\drivers\MsRPC.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
mssmbios	Microsoft System Management BIOS Driver	C:\Windows\system32 \DRIVERS\mssmbios.sys	6.1.7600.16385	Kernel Driver	True	System	Running
MSTEE	Microsoft Streaming Tee/Sink-to-Sink Converter	C:\Windows\system32\drivers\MSTEE.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
MTConfig	Microsoft Input Configuration Driver	C:\Windows\system32\drivers\MTConfig.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
Mup	Mup	C:\Windows\system32\Drivers\mup.sys	6.1.7600.16385	File System Driver	True	Boot	Running
NDIS	NDIS System Driver	C:\Windows\system32\drivers\ndis.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
NdisCap	NDIS Capture LightWeight Filter	C:\Windows\system32 \DRIVERS\ndiscap.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
NdisTapi	Remote Access NDIS TAPI Driver	C:\Windows\system32 \DRIVERS\ndistapi.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
Ndisuio	NDIS Usermode I/O Protocol	C:\Windows\system32\DRIVERS\ndisuio.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
NdisWan	Remote Access NDIS WAN Driver	C:\Windows\system32 \DRIVERS\ndiswan.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
NDProxy	NDIS Proxy	C:\Windows\system32\drivers\NDProxy.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
NetBIOS	NetBIOS Interface	C:\Windows\system32\DRIVERS\netbios.sys	6.1.7600.16385	File System Driver	True	System	Running
NetBT	NetBT	C:\Windows\system32\DRIVERS\netbt.sys	6.1.7601.17514	Kernel Driver	True	System	Running

Netft	Cluster Virtual Miniport Driver	C:\Windows\system32\DRIVERS\netft.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
nfrd960	nfrd960	C:\Windows\system32\drivers\nfrd960.sys	7.10.0.0	Kernel Driver	False	Manual	Stopped
Npfs	Npfs	C:\Windows\system32\drivers\Npfs.sys	6.1.7600.16385	File System Driver	True	System	Running
nsiproxy	NSI proxy service driver.	C:\Windows\system32\drivers\nsiproxy.sys	6.1.7600.16385	Kernel Driver	True	System	Running
Ntfs	Ntfs	C:\Windows\system32\drivers\Ntfs.sys	6.1.7601.17514	File System Driver	True	Manual	Running
Null	Null	C:\Windows\system32\drivers\Null.sys	6.1.7600.16385	Kernel Driver	True	System	Running
nvraid	nvraid	C:\Windows\system32\drivers\nvraid.sys	10.6.0.18	Kernel Driver	False	Manual	Stopped
nvstor	nvstor	C:\Windows\system32\drivers\nvstor.sys	10.6.0.18	Kernel Driver	False	Manual	Stopped
nv_agp	NVIDIA nForce AGP Bus Filter	C:\Windows\system32\drivers\nv_agp.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
ohci1394	1394 OHCI Compliant Host Controller (Legacy)	C:\Windows\system32\drivers\ohci1394.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
Parport	Parallel port driver	C:\Windows\system32\drivers\parport.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
partmgr	Partition Manager	C:\Windows\system32\drivers\partmgr.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
passthruarser	PassthroughParser	C:\Windows\system32\drivers\passthruarser.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
pci	PCI Bus Driver	C:\Windows\system32\drivers\pci.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
pciide	pciide	C:\Windows\system32\drivers\pciide.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
pcmcia	pcmcia	C:\Windows\system32\drivers\pcmcia.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
pcw	Performance Counters for Windows Driver	C:\Windows\system32\drivers\pcw.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
PEAUTH	PEAUTH	C:\Windows\system32\drivers\peauth.sys	6.1.7600.16385	Kernel Driver	True	Auto	Running
PptpMiniport	WAN Miniport (PPTP)	C:\Windows\system32\DRIVERS\rasppptp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
Processor	Processor Driver	C:\Windows\system32\drivers\processr.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
Psched	QoS Packet Scheduler	C:\Windows\system32\DRIVERS\pacer.sys	6.1.7601.17514	Kernel Driver	True	System	Running
ql2300	ql2300	C:\Windows\system32\drivers\ql2300.sys	9.1.8.6	Kernel Driver	False	Manual	Stopped
ql40xx	ql40xx	C:\Windows\system32\drivers\ql40xx.sys	2.1.3.20	Kernel Driver	False	Manual	Stopped
RasAcd	Remote Access Auto Connection Driver	C:\Windows\system32\DRIVERS\rasacd.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
RasAgileVpn	WAN Miniport (IKEv2)	C:\Windows\system32\DRIVERS\AgileVpn.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
Rasl2tp	WAN Miniport (L2TP)	C:\Windows\system32\DRIVERS\rasl2tp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
RasPppoe	Remote Access PPPOE Driver	C:\Windows\system32\DRIVERS\rasppoe.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
RasSstp	WAN Miniport (SSTP)	C:\Windows\system32\DRIVERS\rassstp.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
rdbss	Redirected Buffering Sub Sysytem	C:\Windows\system32\DRIVERS\rdbss.sys	6.1.7601.17514	File System Driver	True	System	Running
rdpbus	Remote Desktop Device Redirector Bus Driver	C:\Windows\system32\DRIVERS\rdpbus.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
RDPCDD	RDPCDD	C:\Windows\system32\DRIVERS\RDPCDD.sys	6.1.7600.16385	Kernel Driver	True	System	Running
RDPR	Terminal Server Device Redirector Driver	C:\Windows\system32\drivers\rdpr.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
RDPCDD	RDP Encoder Mirror Driver	C:\Windows\system32\drivers\rdpcdd.sys	6.1.7600.16385	Kernel Driver	True	System	Running
RDPRFMP	Reflector Display Driver used to gain access to graphics data	C:\Windows\system32\drivers\rdprfmp.sys	6.1.7600.16385	Kernel Driver	True	System	Running
RDPWD	RDP Winstation Driver	C:\Windows\system32\drivers\RDPWD.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
rspndr	Link-Layer Topology Discovery Responder	C:\Windows\system32\DRIVERS\rspndr.sys	6.1.7600.16385	Kernel Driver	True	Auto	Running
s3cap	s3cap	C:\Windows\system32\drivers\vms3cap.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
sacdrv	sacdrv	C:\Windows\system32\DRIVERS\sacdrv.sys	6.1.7600.16385	Kernel Driver	False	Boot	Stopped
sbp2port	sbp2port	C:\Windows\system32\drivers\sbp2port.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
scfilter	Smart card PnP Class Filter Driver	C:\Windows\system32\DRIVERS\scfilter.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped

secdrv	Security Driver	C:\Windows\system32\drivers\secdrv.sys	4.3.86.0	Kernel Driver	True	Auto	Running
Serenum	Serenum Filter Driver	C:\Windows\system32\DRIVERS\serenum.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
Serial	Serial port driver	C:\Windows\system32\DRIVERS\serial.sys	6.1.7600.16385	Kernel Driver	True	System	Running
sermouse	Serial Mouse Driver	C:\Windows\system32\drivers\sermouse.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
sffdisk	SFF Storage Class Driver	C:\Windows\system32\drivers\sffdisk.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
sffp_mmc	SFF Storage Protocol Driver for MMC	C:\Windows\system32\drivers\sffp_mmc.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
sffp_sd	SFF Storage Protocol Driver for SDBus	C:\Windows\system32\drivers\sffp_sd.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
sfloppy	High-Capacity Floppy Disk Drive	C:\Windows\system32\drivers\sfloppy.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
SiSRaid2	SiSRaid2	C:\Windows\system32\drivers\SiSRaid2.sys	5.1.1039.2600	Kernel Driver	False	Manual	Stopped
SiSRaid4	SiSRaid4	C:\Windows\system32\drivers\sisraid4.sys	5.1.1039.3600	Kernel Driver	False	Manual	Stopped
Smb	Message-oriented TCP/IP and TCP/IPv6 Protocol (SMB session)	C:\Windows\system32\DRIVERS\smb.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
spldr	Security Processor Loader Driver	C:\Windows\system32\drivers\spldr.sys	6.1.7127.0	Kernel Driver	True	Boot	Running
srv	Server SMB 1.xxx Driver	C:\Windows\system32\DRIVERS\srv.sys	6.1.7601.17514	File System Driver	True	Manual	Running
srv2	Server SMB 2.xxx Driver	C:\Windows\system32\DRIVERS\srv2.sys	6.1.7601.17514	File System Driver	True	Manual	Running
srvnet	srvnet	C:\Windows\system32\DRIVERS\srvnet.sys	6.1.7601.17514	File System Driver	True	Manual	Running
stexstor	stexstor	C:\Windows\system32\drivers\stexstor.sys	5.0.1.1	Kernel Driver	False	Manual	Stopped
storflt	Disk Virtual Machine Bus Acceleration Filter Driver	C:\Windows\system32\drivers\vmstorfl.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
storvsc	storvsc	C:\Windows\system32\drivers\storvsc.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
storvsp	storvsp	C:\Windows\system32\DRIVERS\storvsp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
swenum	Software Bus Driver	C:\Windows\system32\DRIVERS\swenum.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
Tcpip	TCP/IP Protocol Driver	C:\Windows\system32\drivers\tcpip.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
TCPIP6	Microsoft IPv6 Protocol Driver	C:\Windows\system32\DRIVERS\tcpip.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
tcpipreg	TCP/IP Registry Compatibility	C:\Windows\system32\drivers\tcpipreg.sys	6.1.7601.17514	Kernel Driver	True	Auto	Running
TDPIPE	TDPIPE	C:\Windows\system32\drivers\tdpipe.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
TDTCP	TDTCP	C:\Windows\system32\drivers\tdtcp.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
tdx	NetIO Legacy TDI Support Driver	C:\Windows\system32\DRIVERS\tdx.sys	6.1.7601.17514	Kernel Driver	True	System	Running
TermDD	Terminal Device Driver	C:\Windows\system32\DRIVERS\termdd.sys	6.1.7601.17514	Kernel Driver	True	System	Running
tssecsrv	Remote Desktop Services Security Filter Driver	C:\Windows\system32\DRIVERS\tssecsrv.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
TsUsbFlt	TsUsbFlt	C:\Windows\system32\drivers\tsusbflt.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
TsUsbGD	Remote Desktop Generic USB Device	C:\Windows\system32\drivers\TsUsbGD.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
tunnel	Microsoft Tunnel Miniport Adapter Driver	C:\Windows\system32\DRIVERS\tunnel.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
uagp35	Microsoft AGPv3.5 Filter	C:\Windows\system32\drivers\uagp35.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
udfs	udfs	C:\Windows\system32\DRIVERS\udfs.sys	6.1.7601.17514	File System Driver	False	Disabled	Stopped
uliagpkx	Uli AGP Bus Filter	C:\Windows\system32\drivers\uliagpkx.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
umbus	UMBus Enumerator Driver	C:\Windows\system32\DRIVERS\umbus.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
UmPass	Microsoft UMPass Driver	C:\Windows\system32\drivers\umpass.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
usbccgp	Microsoft USB Generic Parent Driver	C:\Windows\system32\DRIVERS\usbccgp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
usbehci	Microsoft USB 2.0 Enhanced Host Controller Miniport	C:\Windows\system32\DRIVERS\usbehci.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running

usbhub	Driver Microsoft USB Standard Hub Driver	C:\Windows\system32\DRIVERS\usbhub.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
usbohci	Microsoft USB Open Host Controller Miniport Driver	C:\Windows\system32\drivers\usbohci.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
usbprint	Microsoft USB PRINTER Class Driver	C:\Windows\system32\drivers\usbprint.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
USBSTOR	USB Mass Storage Driver	C:\Windows\system32\drivers\USBSTOR.SYS	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
usbuhci	Microsoft USB Universal Host Controller Miniport Driver	C:\Windows\system32\DRIVERS\usbuhci.sys	6.1.7600.16385	Kernel Driver	True	Manual	Running
vdrvroot	Microsoft Virtual Drive Enumerator Driver	C:\Windows\system32\drivers\vdrvroot.sys	6.1.7600.16385	Kernel Driver	True	Boot	Running
vga	vga	C:\Windows\system32\DRIVERS\vgapnp.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
VgaSave	VgaSave	C:\Windows\system32\drivers\vga.sys	6.1.7600.16385	Kernel Driver	True	System	Running
vhdmp	vhdmp	C:\Windows\system32\DRIVERS\vhdmp.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
vhdparser	vhdparser	C:\Windows\system32\drivers\vhdparser.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
viaide	viaide	C:\Windows\system32\drivers\viaide.sys	6.0.6000.170	Kernel Driver	False	Manual	Stopped
Vid	Vid	C:\Windows\system32\DRIVERS\Vid.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
vm3dmp	vm3dmp	C:\Windows\system32\DRIVERS\vm3dmp.sys	8.15.1.48	Kernel Driver	True	Manual	Running
vmbus	Virtual Machine Bus	C:\Windows\system32\DRIVERS\vmbus.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
VMBusHID	VMBusHID	C:\Windows\system32\drivers\VMBusHID.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
vmci	VMware VMCI Bus Driver	C:\Windows\system32\DRIVERS\vmci.sys	9.7.1.0	Kernel Driver	True	Boot	Running
vmhgfs	VMware Host Guest Client Redirector	C:\Windows\system32\drivers\vmhgfs.sys	11.0.0.0	File System Driver	True	System	Running
VMMEMCTL	Memory Control Driver	\\?\C:\Program Files\Common Files\VMware\Drivers\memctl\vmmemctl.sys	7.3.5.0	Kernel Driver	True	Auto	Running
vmmouse	VMware Pointing Device	C:\Windows\system32\DRIVERS\vmmouse.sys	12.5.2.0	Kernel Driver	True	Manual	Running
vmrawdsk	VMware Vista Physical Disk Helper	\\?\C:\Program Files\VMware\VMware Tools\vmrawdsk.sys	0.9.9.0	Kernel Driver	True	System	Running
VMSMP	VMSMP	C:\Windows\system32\DRIVERS\vmswitch.sys	6.1.7601.17514	Kernel Driver	True	Manual	Running
VMSP	VMSP	C:\Windows\system32\DRIVERS\vmswitch.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
vmusbmouse	VMware USB Pointing Device	C:\Windows\system32\DRIVERS\vmusbmouse.sys	12.5.4.0	Kernel Driver	True	Manual	Running
volmgr	Volume Manager Driver	C:\Windows\system32\drivers\volmgr.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
volmgrx	Dynamic Volume Manager	C:\Windows\system32\drivers\volmgrx.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
volsnap	Storage volumes	C:\Windows\system32\drivers\volsnap.sys	6.1.7601.17514	Kernel Driver	True	Boot	Running
vsmraid	vsmraid	C:\Windows\system32\drivers\vsmraid.sys	6.0.6000.6210	Kernel Driver	False	Manual	Stopped
vsock	vSockets Driver	C:\Windows\system32\drivers\vsock.sys	9.7.0.0	Kernel Driver	True	Boot	Running
WacomPen	Wacom Serial Pen HID Driver	C:\Windows\system32\drivers\wacompen.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
WANARP	Remote Access IP ARP Driver	C:\Windows\system32\DRIVERS\wanarp.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped
Wanarpv6	Remote Access IPv6 ARP Driver	C:\Windows\system32\DRIVERS\wanarp.sys	6.1.7601.17514	Kernel Driver	True	System	Running
Wd	Wd	C:\Windows\system32\drivers\wd.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped
Wdf01000	Kernel Mode Driver Frameworks service	C:\Windows\system32\drivers\Wdf01000.sys	1.9.7600.16385	Kernel Driver	True	Boot	Running
WfpLwf	WFP Lightweight Filter	C:\Windows\system32\DRIVERS\wfplwf.sys	6.1.7600.16385	Kernel Driver	True	System	Running
WIMMount	WIMMount	C:\Windows\system32\drivers\wimmount.sys	6.1.7600.16385	File System Driver	False	Manual	Stopped
WmiAcpi	Microsoft Windows Management Interface for ACPI	C:\Windows\system32\drivers\wmiacpi.sys	6.1.7600.16385	Kernel Driver	False	Manual	Stopped

ws2ifsl	Windows Socket 2.0 Non-IFS Service Provider Support Environment	C:\Windows\system32\drivers\ws2ifsl.sys	6.1.7600.16385	Kernel Driver	True	System	Running
WudfPf	User Mode Driver Frameworks Platform Driver	C:\Windows\system32\drivers\WudfPf.sys	6.1.7601.17514	Kernel Driver	False	Manual	Stopped

[Back to Summary](#)
[Back to Top](#)

List System Information

List system information such as computer model and domain.



client1.cloud.com

[Gathering System Information for client1.cloud.com](#)

Item	Value
System Name	CLIENT1
System Manufacturer	VMware, Inc.
System Model	VMware Virtual Platform
User Name	CLOUD\Administrator
Domain	cloud.com
Time Zone	India Standard Time
Daylight in Effect	False
System Type	64-bit x64 Family
Number Of Processors	2
Processor #1	GenuineIntel Intel64 Family 6 Model 42 Stepping 7 at 2.14 GHz
Processor #2	GenuineIntel Intel64 Family 6 Model 42 Stepping 7 at 2.14 GHz



client3.cloud.com

[Gathering System Information for client3.cloud.com](#)

Item	Value
System Name	CLIENT3
System Manufacturer	VMware, Inc.
System Model	VMware Virtual Platform
User Name	CLOUD\Administrator
Domain	cloud.com
Time Zone	India Standard Time
Daylight in Effect	False
System Type	64-bit x64 Family
Number Of Processors	1
Processor #1	GenuineIntel Intel64 Family 6 Model 42 Stepping 7 at 2.14 GHz

[Back to Summary](#)
[Back to Top](#)

List Unsigned Drivers

List the unsigned drivers on each node.



client1.cloud.com

Gathering Unsigned Drivers for client1.cloud.com

None found...



client3.cloud.com

Gathering Unsigned Drivers for client3.cloud.com

None found...

[Back to Summary](#)
[Back to Top](#)

Validate Active Directory Configuration

Validate that all the nodes have the same domain, domain role, and organizational unit.

Validating that all nodes have the same domain, domain role, and organizational unit.

Fqdn	Domain	Domain Role	Organizational Unit
client1.cloud.com	cloud.com	Member Server	Computers
client3.cloud.com	cloud.com	Member Server	Computers

The user can create computer objects in the 'cloud.com' domain.

To successfully create a cluster either, the installer must have the privileges needed to create computer objects in the default container for computers, or a computer object must be pre-created by a domain administrator.

The user creating the cluster requires the 'Create Computer Object' permission on the container where computer objects are created in the domain. If the default container has been modified, then this privilege will need to be granted to the user for the new container.

If a pre-existing computer object is used, please ensure that the computer object is in a Disabled state and that the user creating the cluster has 'Full Control' permission to that computer object using the Active Directory Users and Computers tool prior to creating the cluster.

[Back to Summary](#)
[Back to Top](#)

Validate All Drivers Signed

Validate that tested servers contain only signed drivers.

Validating that the servers contain only signed drivers...

The servers contain only signed drivers.

[Back to Summary](#)
[Back to Top](#)

Validate Cluster Network Configuration

Validate the cluster networks that would be created for these servers.

Validating the cluster networks that would be created for these servers.

Network: Cluster Network 1

DHCP Enabled: False

Network Role: Internal

Prefix

Prefix Length

10.0.0.0

8

Item

Network Interface

DHCP Enabled

IP Address

Prefix Length

Value

client1.cloud.com - Local Area Connection 3

False

10.0.0.2

8

Item

Network Interface

DHCP Enabled

IP Address

Prefix Length

Value

client3.cloud.com - Local Area Connection 3

False

10.0.0.3

8

Verifying that each cluster network interface within a cluster network is configured with the same IP subnets.

Examining network Cluster Network 1.

Network interface client3.cloud.com - Local Area Connection 3 has addresses on all the subnet prefixes of network Cluster Network 1.

Network interface client1.cloud.com - Local Area Connection 3 has addresses on all the subnet prefixes of network Cluster Network 1.

Verifying that, for each cluster network, all adapters are consistently configured with either DHCP or static IP addresses.

Checking DHCP consistency for network: Cluster Network 1. Network DHCP status is disabled.

DHCP status (disabled) for network interface client3.cloud.com - Local Area Connection 3 matches network Cluster Network 1.

DHCP status (disabled) for network interface client1.cloud.com - Local Area Connection 3 matches network Cluster Network 1.

[Back to Summary](#)[Back to Top](#)

Validate Disk Access Latency

Validate acceptable latency for disk read and write operations.

Validating read latency of cluster disks

Validating disk access latency for cluster disk 0 from node client1.cloud.com

Validating disk access latency for cluster disk 1 from node client1.cloud.com

Validating disk access latency for cluster disk 0 from node client3.cloud.com

Validating disk access latency for cluster disk 1 from node client3.cloud.com

Validating write latency of cluster disks

Validating disk access latency for cluster disk 0 from node client1.cloud.com

Validating disk access latency for cluster disk 1 from node client1.cloud.com

Validating disk access latency for cluster disk 0 from node client3.cloud.com

Validating disk access latency for cluster disk 1 from node client3.cloud.com

[Back to Summary](#)[Back to Top](#)

Validate Disk Arbitration

Validate that a node that owns a disk retains ownership after disk arbitration.

Arbitrating for cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Releasing cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Releasing cluster disk 0 from node client3.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

[Back to Summary](#)
[Back to Top](#)

Validate Disk Failover

Validate that a disk can fail over successfully with data intact.

Getting partition table for cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Releasing cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Releasing cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Releasing cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Releasing cluster disk 0 from node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Releasing cluster disk 0 from node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client3.cloud.com
Releasing cluster disk 0 from node client3.cloud.com
Getting partition table for cluster disk 1 from node client1.cloud.com
Arbitrating for cluster disk 1 from node client1.cloud.com
Bringing online cluster disk 1 on node client1.cloud.com
Writing file data on cluster disk 1 partition 1
Taking offline cluster disk 1 on node client1.cloud.com
Releasing cluster disk 1 from node client1.cloud.com
Arbitrating for cluster disk 1 from node client1.cloud.com
Bringing online cluster disk 1 on node client1.cloud.com
Validating file data on cluster disk 1 partition 1
Removing temporary file data on cluster disk 1 partition 1
Taking offline cluster disk 1 on node client1.cloud.com
Releasing cluster disk 1 from node client1.cloud.com
Arbitrating for cluster disk 1 from node client1.cloud.com
Bringing online cluster disk 1 on node client1.cloud.com
Writing file data on cluster disk 1 partition 1
Taking offline cluster disk 1 on node client1.cloud.com
Releasing cluster disk 1 from node client1.cloud.com
Arbitrating for cluster disk 1 from node client3.cloud.com
Bringing online cluster disk 1 on node client3.cloud.com
Validating file data on cluster disk 1 partition 1
Removing temporary file data on cluster disk 1 partition 1
Taking offline cluster disk 1 on node client3.cloud.com
Releasing cluster disk 1 from node client3.cloud.com
Arbitrating for cluster disk 1 from node client3.cloud.com
Bringing online cluster disk 1 on node client3.cloud.com
Writing file data on cluster disk 1 partition 1
Taking offline cluster disk 1 on node client3.cloud.com
Releasing cluster disk 1 from node client3.cloud.com
Arbitrating for cluster disk 1 from node client3.cloud.com
Bringing online cluster disk 1 on node client3.cloud.com
Validating file data on cluster disk 1 partition 1
Removing temporary file data on cluster disk 1 partition 1
Taking offline cluster disk 1 on node client3.cloud.com
Releasing cluster disk 1 from node client3.cloud.com

[Back to Summary](#)
[Back to Top](#)

Validate File System

Validate that the file system on disks in shared storage is supported by failover clusters.

Validating File System on cluster disk 0
Getting File System type on cluster disk 0 partition 1
File System type on cluster disk 0 partition 1 is NTFS

Validating File System on cluster disk 1

Getting File System type on cluster disk 1 partition 1

File System type on cluster disk 1 partition 1 is NTFS

[Back to Summary](#)
[Back to Top](#)

Validate IP Configuration

Validate that IP addresses are unique and subnets configured correctly.

Validating that IP addresses are unique and subnets configured correctly.



Item	Name
Adapter Name	Local Area Connection* 9
Adapter Description	Microsoft Failover Cluster Virtual Adapter
Physical Address	02-0C-29-9A-27-2C
Status	Not Operational
DNS Servers	
IP Address	fe80::70d4:41fe:6294:c144%15
Prefix Length	64
IP Address	169.254.193.68
Prefix Length	16

Item	Name
Adapter Name	Local Area Connection 3
Adapter Description	Local Area Connection - Virtual Network
Physical Address	00-0C-29-9A-27-2C
Status	Operational
DNS Servers	10.0.0.1
IP Address	fe80::1dda:2b28:d2bd:289%14
Prefix Length	64
IP Address	10.0.0.2
Prefix Length	8

Item	Name
Adapter Name	Loopback Pseudo-Interface 1
Adapter Description	Software Loopback Interface 1
Physical Address	00-00-00-00-00-00-00
Status	Operational
DNS Servers	
IP Address	::1
Prefix Length	128
IP Address	127.0.0.1
Prefix Length	8

Item	Name
Adapter Name	isatap.{91A63E02-7F0A-4790-9C3D-5A6C51E3F4D8}
Adapter Description	Microsoft ISATAP Adapter
Physical Address	00-00-00-00-00-00-E0
Status	Not Operational
DNS Servers	
IP Address	fe80::5efe:10.0.0.2%12
Prefix Length	128

Item	Name
------	------

Adapter Name	isatap.{8934C0E8-BDC0-49F6-82FB-E99AC45B38C3}
Adapter Description	Microsoft ISATAP Adapter #2
Physical Address	00-00-00-00-00-00-E0
Status	Not Operational
DNS Servers	



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Item

Adapter Name
Adapter Description
Physical Address
Status
DNS Servers
IP Address
Prefix Length
IP Address
Prefix Length

Name

Local Area Connection* 9
Microsoft Failover Cluster Virtual Adapter
02-0C-29-64-13-F4
Not Operational

fe80::3805:224d:5c43:58a9%15
64
169.254.88.169
16

Item

Adapter Name
Adapter Description
Physical Address
Status
DNS Servers
IP Address
Prefix Length
IP Address
Prefix Length

Name

Local Area Connection 3
Local Area Connection - Virtual Network
00-0C-29-64-13-F4
Operational
10.0.0.1
fe80::4dfb:4ec9:81e1:fdd%14
64
10.0.0.3
8

Item

Adapter Name
Adapter Description
Physical Address
Status
DNS Servers
IP Address
Prefix Length
IP Address
Prefix Length

Name

Loopback Pseudo-Interface 1
Software Loopback Interface 1
00-00-00-00-00-00-00
Operational

::1
128
127.0.0.1
8

Item

Adapter Name
Adapter Description
Physical Address
Status
DNS Servers
IP Address
Prefix Length

Name

isatap.{B2A524B0-9A42-451F-8110-F5D52B9E3966}
Microsoft ISATAP Adapter
00-00-00-00-00-00-E0
Not Operational

fe80::5efe:10.0.0.3%12
128

Item

Adapter Name
Adapter Description
Physical Address
Status
DNS Servers

Name

isatap.{E41279D6-0B0C-4B03-8085-414B737487FF}
Microsoft ISATAP Adapter #2
00-00-00-00-00-00-E0
Not Operational

Verifying that a node does not have multiple adapters connected to the same subnet.

Verifying that each node has at least one adapter with a defined default gateway.

Node client1.cloud.com does not have an adapter usable by the cluster with a defined default gateway.

Node client3.cloud.com does not have an adapter usable by the cluster with a defined default gateway.

Verifying that there are no node adapters with the same EUI-48 physical address.

Verifying that there are no duplicate IP addresses between any pair of nodes.

Checking that nodes are consistently configured with IPv4 and/or IPv6 addresses.

Verifying that all nodes IPv4 networks are not configured using Automatic Private IP Addresses (APIPA).

[Back to Summary](#)

[Back to Top](#)

Validate Memory Dump Settings

Validate that none of the nodes currently requires a reboot (as part of a software update) and that each node is configured to capture a memory dump if it stops running.

Validating software configuration.

[Back to Summary](#)

[Back to Top](#)

Validate Microsoft MPIO-based disks

Validate that Microsoft MPIO-based disks have been configured correctly.

Cluster disk 0 is not a Microsoft MPIO based disk

Cluster disk 1 is not a Microsoft MPIO based disk

There are no registered DSM on node client1.cloud.com

There are no registered DSM on node client3.cloud.com

[Back to Summary](#)

[Back to Top](#)

Validate Multiple Arbitration

Validate that in a multiple-node arbitration process, only one node obtains control.

Creating arbitration thread for cluster disk 0 from node client1.cloud.com

Creating arbitration thread for cluster disk 0 from node client3.cloud.com

Successfully arbitrated for cluster disk 0 from node client3.cloud.com

Creating arbitration thread for cluster disk 1 from node client1.cloud.com

Creating arbitration thread for cluster disk 1 from node client3.cloud.com

Successfully arbitrated for cluster disk 1 from node client3.cloud.com

[Back to Summary](#)

[Back to Top](#)

Validate Network Communication

Validate that servers can communicate, with acceptable latency, on all networks.

Validating that servers can communicate, with acceptable latency, on all networks.

Pinging network interface client1.cloud.com - Local Area Connection 3 IP Address 10.0.0.2 from network interface client3.cloud.com - Local Area Connection 3

IP Address 10.0.0.3 with maximum delay 500.

Succeeded in pinging network interface client1.cloud.com IP Address 10.0.0.2 from network interface client3.cloud.com IP Address 10.0.0.3 with maximum delay 500 after 1 attempt(s).

Pinging network interface client3.cloud.com - Local Area Connection 3 IP Address 10.0.0.3 from network interface client1.cloud.com - Local Area Connection 3 IP Address 10.0.0.2 with maximum delay 500.

Succeeded in pinging network interface client3.cloud.com IP Address 10.0.0.3 from network interface client1.cloud.com IP Address 10.0.0.2 with maximum delay 500 after 1 attempt(s).

Analyzing connectivity results ...

Node client3.cloud.com is reachable from Node client1.cloud.com by only one pair of interfaces. It is possible that this network path is a single point of failure for communication within the cluster. Please verify that this single path is highly available or consider adding additional networks to the cluster.

The following are all pings attempted from network interfaces on node client1.cloud.com to network interfaces on node client3.cloud.com.

Result	Source Network Interface	Destination Network Interface	Same Cluster Network	Maximum Allowed Round-Trip Latency
Success	client1.cloud.com - Local Area Connection 3	client3.cloud.com - Local Area Connection 3	True	500

Result	Source IP Address	Destination IP Address
Success	10.0.0.2	10.0.0.3

Node client1.cloud.com is reachable from Node client3.cloud.com by only one pair of interfaces. It is possible that this network path is a single point of failure for communication within the cluster. Please verify that this single path is highly available or consider adding additional networks to the cluster.

The following are all pings attempted from network interfaces on node client3.cloud.com to network interfaces on node client1.cloud.com.

Result	Source Network Interface	Destination Network Interface	Same Cluster Network	Maximum Allowed Round-Trip Latency
Success	client3.cloud.com - Local Area Connection 3	client1.cloud.com - Local Area Connection 3	True	500

Result	Source IP Address	Destination IP Address
Success	10.0.0.3	10.0.0.2

[Back to Summary](#)

[Back to Top](#)

Validate Operating System Installation Option

Validate that the operating systems on the servers use the same installation option (full installation or Server Core installation).

Validating that all servers have the same operating system installation type (Full/Core).

Node	Installation Type
client1.cloud.com	Full Install
client3.cloud.com	Full Install

All servers have the same operating system installation type (Full/Core).

[Back to Summary](#)

[Back to Top](#)

Validate Required Services

Validate that services required for failover clustering are running and configured properly.

Validating that services required for failover clustering are running and configured properly.



client1.cloud.com

Service	Display Name	Running	Starts Automatically
RPCSS	Remote Procedure Call (RPC)	Yes	Yes
RemoteRegistry	Remote Registry	Yes	Yes

Lanmanserver	Server	Yes	Yes
WinMgmt	Windows Management Instrumentation	Yes	Yes

**client3.cloud.com**

Service	Display Name	Running	Starts Automatically
RPCSS	Remote Procedure Call (RPC)	Yes	Yes
RemoteRegistry	Remote Registry	Yes	Yes
Lanmanserver	Server	Yes	Yes
WinMgmt	Windows Management Instrumentation	Yes	Yes

[Back to Summary](#)[Back to Top](#)

Validate Same Processor Architecture

Validate that all servers run as 32-bit systems or all run as 64-bit systems.

Validating that all servers have the same processor architecture...

client1.cloud.com has x64 Family processor(s).

client1.cloud.com has 64-bit Architecture.

client3.cloud.com has x64 Family processor(s).

client3.cloud.com has 64-bit Architecture.

[Back to Summary](#)[Back to Top](#)

Validate SCSI device Vital Product Data (VPD)

Validate that storage supports necessary inquiry data (SCSI page 83h VPD descriptors) and that they are unique.

Validating that for each cluster disk supporting SCSI page 83h VPD descriptors, all nodes return the same descriptors.

Getting SCSI page 83h VPD descriptors for cluster disk 0 from node client1.cloud.com

Getting SCSI page 83h VPD descriptors for cluster disk 0 from node client3.cloud.com

Getting SCSI page 83h VPD descriptors for cluster disk 1 from node client1.cloud.com

Getting SCSI page 83h VPD descriptors for cluster disk 1 from node client3.cloud.com

Validating that for each cluster disk supporting SCSI page 83h VPD descriptors, the descriptors are globally unique.

Getting SCSI page 83h VPD descriptors for cluster disk 0 from node client1.cloud.com

Getting SCSI page 83h VPD descriptors for cluster disk 1 from node client1.cloud.com

Getting SCSI page 83h VPD descriptors for cluster disk 0 from node client3.cloud.com

Getting SCSI page 83h VPD descriptors for cluster disk 1 from node client3.cloud.com

[Back to Summary](#)[Back to Top](#)

Validate SCSI-3 Persistent Reservation

Validate that storage supports the SCSI-3 Persistent Reservation commands.

Validating Cluster Disk 0 for Persistent Reservation support

Registering PR key for cluster disk 0 from node client1.cloud.com

Putting PR reserve on cluster disk 0 from node client1.cloud.com

Attempting to read PR on cluster disk 0 from node client1.cloud.com.

Attempting to preempt PR on cluster disk 0 from unregistered node client3.cloud.com. Expecting to fail

Registering PR key for cluster disk 0 from node client3.cloud.com

Putting PR reserve on cluster disk 0 from node client3.cloud.com

Unregistering PR key for cluster disk 0 from node client3.cloud.com

Trying to write to sector 11 on cluster disk 0 from node client1.cloud.com

Trying to read sector 11 on cluster disk 0 from node client3.cloud.com

Attempting to read drive layout of Cluster disk 0 from node client3.cloud.com while the disk has PR on it

Trying to write to sector 11 on cluster disk 0 from node client3.cloud.com

Registering PR key for cluster disk 0 from node client3.cloud.com

Trying to write to sector 11 on cluster disk 0 from node client3.cloud.com

Trying to read sector 11 on cluster disk 0 from node client3.cloud.com

Unregistering PR key for cluster disk 0 from node client3.cloud.com

Releasing PR reserve on cluster disk 0 from node client1.cloud.com

Attempting to read PR on cluster disk 0 from node client1.cloud.com.

Unregistering PR key for cluster disk 0 from node client1.cloud.com

Registering PR key for cluster disk 0 from node client3.cloud.com

Putting PR reserve on cluster disk 0 from node client3.cloud.com

Attempting to read PR on cluster disk 0 from node client3.cloud.com.

Attempting to preempt PR on cluster disk 0 from unregistered node client1.cloud.com. Expecting to fail

Registering PR key for cluster disk 0 from node client1.cloud.com

Putting PR reserve on cluster disk 0 from node client1.cloud.com

Unregistering PR key for cluster disk 0 from node client1.cloud.com

Trying to write to sector 11 on cluster disk 0 from node client3.cloud.com

Trying to read sector 11 on cluster disk 0 from node client1.cloud.com

Attempting to read drive layout of Cluster disk 0 from node client1.cloud.com while the disk has PR on it

Trying to write to sector 11 on cluster disk 0 from node client1.cloud.com

Registering PR key for cluster disk 0 from node client1.cloud.com

Trying to write to sector 11 on cluster disk 0 from node client1.cloud.com

Trying to read sector 11 on cluster disk 0 from node client1.cloud.com

Unregistering PR key for cluster disk 0 from node client1.cloud.com

Releasing PR reserve on cluster disk 0 from node client3.cloud.com

Attempting to read PR on cluster disk 0 from node client3.cloud.com.

Unregistering PR key for cluster disk 0 from node client3.cloud.com

Cluster Disk 0 supports Persistent Reservation

Validating Cluster Disk 1 for Persistent Reservation support

Registering PR key for cluster disk 1 from node client1.cloud.com

Putting PR reserve on cluster disk 1 from node client1.cloud.com

Attempting to read PR on cluster disk 1 from node client1.cloud.com.

Attempting to preempt PR on cluster disk 1 from unregistered node client3.cloud.com. Expecting to fail

Registering PR key for cluster disk 1 from node client3.cloud.com

Putting PR reserve on cluster disk 1 from node client3.cloud.com

Unregistering PR key for cluster disk 1 from node client3.cloud.com

Trying to write to sector 11 on cluster disk 1 from node client1.cloud.com

Trying to read sector 11 on cluster disk 1 from node client3.cloud.com

Attempting to read drive layout of Cluster disk 1 from node client3.cloud.com while the disk has PR on it

Trying to write to sector 11 on cluster disk 1 from node client3.cloud.com

Registering PR key for cluster disk 1 from node client3.cloud.com

Trying to write to sector 11 on cluster disk 1 from node client3.cloud.com

Trying to read sector 11 on cluster disk 1 from node client3.cloud.com

Unregistering PR key for cluster disk 1 from node client3.cloud.com

Releasing PR reserve on cluster disk 1 from node client1.cloud.com

Attempting to read PR on cluster disk 1 from node client1.cloud.com.

Unregistering PR key for cluster disk 1 from node client1.cloud.com

Registering PR key for cluster disk 1 from node client3.cloud.com

Putting PR reserve on cluster disk 1 from node client3.cloud.com

Attempting to read PR on cluster disk 1 from node client3.cloud.com.

Attempting to preempt PR on cluster disk 1 from unregistered node client1.cloud.com. Expecting to fail

Registering PR key for cluster disk 1 from node client1.cloud.com

Putting PR reserve on cluster disk 1 from node client1.cloud.com

Unregistering PR key for cluster disk 1 from node client1.cloud.com

Trying to write to sector 11 on cluster disk 1 from node client3.cloud.com

Trying to read sector 11 on cluster disk 1 from node client1.cloud.com

Attempting to read drive layout of Cluster disk 1 from node client1.cloud.com while the disk has PR on it

Trying to write to sector 11 on cluster disk 1 from node client1.cloud.com

Registering PR key for cluster disk 1 from node client1.cloud.com

Trying to write to sector 11 on cluster disk 1 from node client1.cloud.com

Trying to read sector 11 on cluster disk 1 from node client1.cloud.com

Unregistering PR key for cluster disk 1 from node client1.cloud.com

Releasing PR reserve on cluster disk 1 from node client3.cloud.com

Attempting to read PR on cluster disk 1 from node client3.cloud.com.

Unregistering PR key for cluster disk 1 from node client3.cloud.com

Cluster Disk 1 supports Persistent Reservation

Validating that PR clear command works for cluster disk 0 from node client1.cloud.com

Validating that PR clear command works for cluster disk 0 from node client3.cloud.com

Validating that PR clear command works for cluster disk 1 from node client1.cloud.com

Validating that PR clear command works for cluster disk 1 from node client3.cloud.com

[Back to Summary](#)
[Back to Top](#)

Validate Service Pack Levels

Validate that all servers with same operating system also have same service packs.

Validating that all servers have the same service pack level...

client1.cloud.com has service pack Service Pack 1 installed.

client3.cloud.com has service pack Service Pack 1 installed.

All servers have the same service pack level.

[Back to Summary](#)
[Back to Top](#)

Validate Simultaneous Failover

Validate that disks can fail over simultaneously with data intact.

Validate Simultaneous Failover

Getting partition table for cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Getting partition table for cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Writing file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Releasing cluster disk 0 from node client1.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Validating file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Removing temporary file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Releasing cluster disk 0 from node client1.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Writing file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Releasing cluster disk 0 from node client1.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Writing file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Getting partition table for cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Getting partition table for cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Writing file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Writing file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Writing file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Getting partition table for cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Getting partition table for cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Writing file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Writing file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Releasing cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Writing file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Getting partition table for cluster disk 0 from node client1.cloud.com

Arbitrating for cluster disk 0 from node client1.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 0 on node client1.cloud.com

Getting partition table for cluster disk 1 from node client1.cloud.com

Arbitrating for cluster disk 1 from node client1.cloud.com

Bringing online cluster disk 1 on node client1.cloud.com

Writing file data on cluster disk 0 partition 1

Taking offline cluster disk 0 on node client1.cloud.com

Writing file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client1.cloud.com

Taking offline cluster disk 1 on node client1.cloud.com
Arbitrating for cluster disk 0 from node client1.cloud.com
Releasing cluster disk 1 from node client1.cloud.com
Bringing online cluster disk 0 on node client1.cloud.com
Arbitrating for cluster disk 1 from node client1.cloud.com
Bringing online cluster disk 1 on node client1.cloud.com
Validating file data on cluster disk 0 partition 1
Removing temporary file data on cluster disk 0 partition 1
Validating file data on cluster disk 1 partition 1
Taking offline cluster disk 0 on node client1.cloud.com
Removing temporary file data on cluster disk 1 partition 1
Releasing cluster disk 0 from node client1.cloud.com
Taking offline cluster disk 1 on node client1.cloud.com
Arbitrating for cluster disk 0 from node client1.cloud.com
Releasing cluster disk 1 from node client1.cloud.com
Bringing online cluster disk 0 on node client1.cloud.com
Arbitrating for cluster disk 1 from node client1.cloud.com
Bringing online cluster disk 1 on node client1.cloud.com
Writing file data on cluster disk 0 partition 1
Taking offline cluster disk 0 on node client1.cloud.com
Writing file data on cluster disk 1 partition 1
Releasing cluster disk 0 from node client1.cloud.com
Taking offline cluster disk 1 on node client1.cloud.com
Arbitrating for cluster disk 0 from node client3.cloud.com
Bringing online cluster disk 0 on node client3.cloud.com
Releasing cluster disk 1 from node client1.cloud.com
Arbitrating for cluster disk 1 from node client3.cloud.com
Bringing online cluster disk 1 on node client3.cloud.com
Validating file data on cluster disk 0 partition 1
Removing temporary file data on cluster disk 0 partition 1
Validating file data on cluster disk 1 partition 1
Taking offline cluster disk 0 on node client3.cloud.com
Removing temporary file data on cluster disk 1 partition 1
Releasing cluster disk 0 from node client3.cloud.com
Taking offline cluster disk 1 on node client3.cloud.com
Arbitrating for cluster disk 0 from node client3.cloud.com
Releasing cluster disk 1 from node client3.cloud.com
Bringing online cluster disk 0 on node client3.cloud.com
Arbitrating for cluster disk 1 from node client3.cloud.com
Bringing online cluster disk 1 on node client3.cloud.com
Writing file data on cluster disk 0 partition 1
Taking offline cluster disk 0 on node client3.cloud.com
Writing file data on cluster disk 1 partition 1
Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Arbitrating for cluster disk 0 from node client3.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 0 on node client3.cloud.com

Arbitrating for cluster disk 1 from node client3.cloud.com

Bringing online cluster disk 1 on node client3.cloud.com

Validating file data on cluster disk 0 partition 1

Removing temporary file data on cluster disk 0 partition 1

Validating file data on cluster disk 1 partition 1

Taking offline cluster disk 0 on node client3.cloud.com

Removing temporary file data on cluster disk 1 partition 1

Releasing cluster disk 0 from node client3.cloud.com

Taking offline cluster disk 1 on node client3.cloud.com

Releasing cluster disk 1 from node client3.cloud.com

[Back to Summary](#)
[Back to Top](#)

Validate Software Update Levels

Validate that all tested servers have the same software updates installed.

Validating that all servers have the same software updates...

Software Updates missing on 'client1.cloud.com':

All software updates present

Software Updates missing on 'client3.cloud.com':

All software updates present

All servers have the same software updates.

[Back to Summary](#)
[Back to Top](#)

Validate Windows Firewall Configuration

Validate that the Windows Firewall is properly configured to allow failover cluster network communication.

Validating that Windows Firewall is properly configured to allow failover cluster network communication.

The Windows Firewall on node 'client1.cloud.com' is configured to allow network communication between cluster nodes over adapter 'client1.cloud.com - Local Area Connection 3'.

The Windows Firewall on node client1.cloud.com is configured to allow network communication between cluster nodes.

The Windows Firewall on node 'client3.cloud.com' is configured to allow network communication between cluster nodes over adapter 'client3.cloud.com - Local Area Connection 3'.

The Windows Firewall on node client3.cloud.com is configured to allow network communication between cluster nodes.

[Back to Summary](#)
[Back to Top](#)