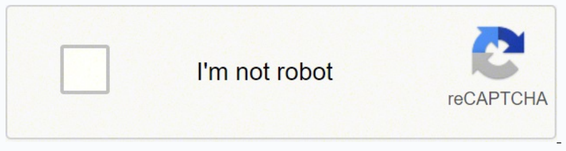

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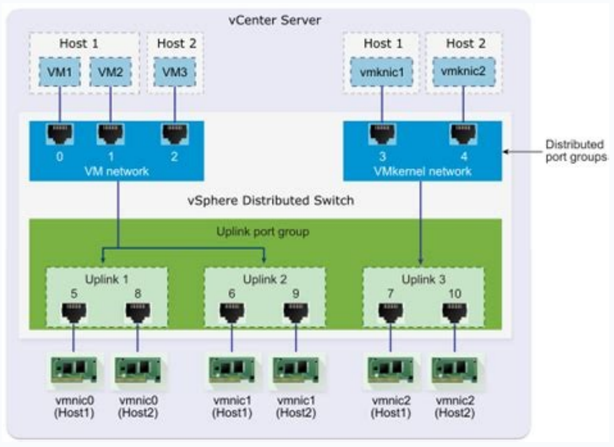
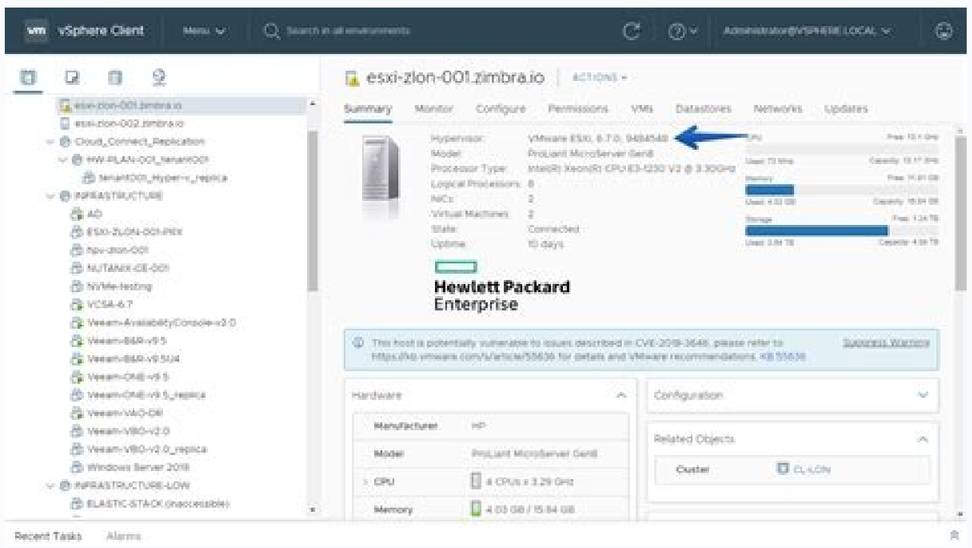
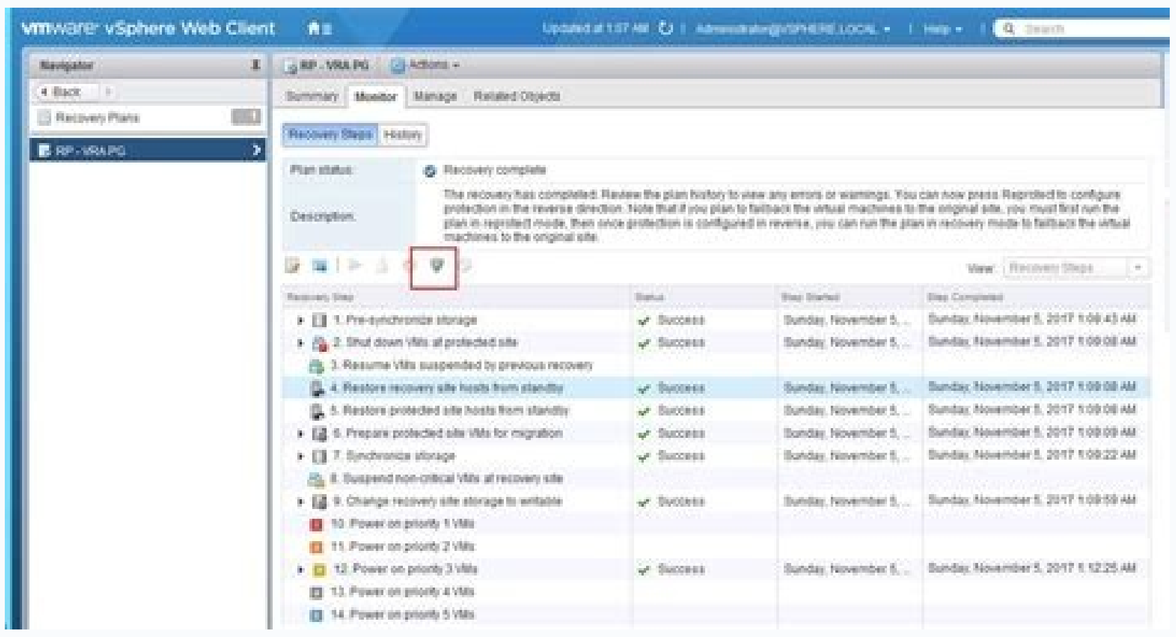
Vmware esxi 6. 7







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PR 2587397: Virtual machines become unresponsive after power-on, with VMware logo on screenIf a network adapter is replaced or the network adapter address is changed, Linux virtual machines that use EFI firmware and iPXE to boot from a network, might become unresponsive. For more information, see VMSA-2020-0026. Known Issues from Earlier Releases To view a list of previous known issues, click here. In the Server Manager, under Local Server select Manage -> Add Roles and Features Wizard and under Role-based or feature-based installation select Hyper-V from the server pool and specify the server roles. Discrepancy between the build number in VAMI and the build number in the vSphere ClientIn vSphere 6.7, the VAMI summary tab displays the ISO build for the vCenter Server and vCenter Server Appliance products. This change was necessary as some prior settings (for example, permitted ciphers) are no longer compatible with current ESXi behavior, and prevented SSHD (SSH daemon) from starting correctly. Users can access vSAN health information through the vCenter Server Appliance. Some Intel network adapters might not be able to receive LLDP packetsIntel network adapters of the series X710, XL710, XXV710, and X722 might not be able to receive LLDP packets. Due to an error in processing sensor entries, memoryStatusInfo and cpuStatusInfo data might incorrectly include the status for non-cpu and non-memory sensors as well. If a reclaim request repeats during an NFS server failover or failback operation, the open reclaim fails and causes virtual machines on NFS 4.1 datastores to become unresponsive. For example, to disable LLDP agent on all 4 NICs, run the command: # esxcli system module parameters set -p "LLDP=0,0,0,0" i40en The number of 0 parameters should be equal to the number of i40en uplinks on the ESXi host. PR 2630045: The vSphere Virtual Volumes algorithm might not pick out the first Config-VVol that an ESXi host requestsIn a vSphere HA environment, the vSphere Virtual Volumes algorithm uses UUID to pick out when multiple ESXi hosts compete to create and mount a Config-VVol with the same friendly name at the same time. In an all-flash vSAN cluster, guest virtual machines and applications might experience random high write latency spikes. Workaround: If you are using Windows session authentication to log in to the vSphere Web Client, use one of the following browsers: Internet Explorer, Chrome, or Firefox of version 53 and earlier. This can result in longer running quiescing operations for virtual machines on such datastores. In rare cases, an ESXi host is unable to report protocol endpoint LUNs to the vSphere API for Storage Awareness (VASA) provider while a vSphere Virtual Volumes datastore is being provisioned. Enable Hyper-V on Windows 10: Browse to Control Panel -> Programs -> Turn Windows features on or off. PR 2587530: Setting a virtual CD/DVD drive to be a client device might cause a virtual machine to power off and get into an invalid stateIf you edit the settings of a running virtual machine to change an existing virtual CD/DVD drive to become a client device, in some cases, the virtual machine powers off and gets into an invalid state. When you upgrade vSphere Distributed Switches to version 6.6, you might encounter a few known issuesDuring upgrade, the connected virtual machines might experience packet loss for a few seconds. While DRSS helps to improve performance for many workloads, it could lead to possible performance degradation with certain multi-VM and multi-vCPU workloads. ESXi670-202011404-BG Patch Category Bugfix Patch Severity Important Host Reboot Required Yes Virtual Machine Migration or Shutdown Required Yes Affected Hardware N/A Affected Software N/A VIBs Included VMW_bootbank_vmw-ahci_2.0.5-2vmw.670.3.132.17167734 PRs Fixed N/A CVE numbers N/A Updates the vmw-ahci VIB. Use the following syntax: FALSE As an alternative, you can set the ESXi Advanced option VMFS.UnresolvedVolumeLiveCheck to FALSE in the vSphere Client. Significant time might be required to list a large number of unresolved VMFS volumes using the batch QueryUnresolvedVmfsVolume APIESXi provides the batch QueryUnresolvedVmfsVolume API, so that you can query and list unresolved VMFS volumes or LUN snapshots. For VXLAN deployments involving Guest OS TCP traffic over IPV6, TCP packets subject to TSO are not processed correctly by the Cisco UCS VIC 13xx adapters, which causes traffic disruption. Manually triggering a non-maskable interrupt (NMI) might not work on a vCenter Server system with an AMD EPYC 7002 series processor Requesting an NMI from the hardware management console (BMC) or by pressing a physical NMI button should cause ESXi hosts to fail with a purple diagnostic screen and dump core. Issue appears when using esxcli command to set coredump. No functionality is impacted by this issue. Edit the host profile settings and navigate to General System Settings > Core Dump Configuration > Coredump File. However, the Config-VVol picked by UUID might not be the first one that the ESXi hosts in the cluster requests and this might create issues in the vSphere Virtual Volumes datastores. ESXi670-202011403-BG Patch Category Bugfix Patch Severity Moderate Host Reboot Required Yes Virtual Machine Migration or Shutdown Required Yes Affected Hardware N/A Affected Software N/A VIBs Included VMW_bootbank_vmkusb_0.1-1vmw.670.3.132.17167734 PRs Fixed 2643589 CVE numbers N/A Updates the vmkusb VIB to resolve the following issue: PR 2643589: If an SD card does not support Read Capacity 16, you see numerous errors in the logsOn ESXi hosts that use a VID:PID/0bda:0329 Realtek Semiconductor Corp USB 3.0 SD card reader device that does not support Read Capacity 16, you might see numerous errors in the vmkernel log such as: 2020-06-30T13:26:06.141Z cpu0:2097243)ScsiDeviceIO: 3449: Cmd(0x459ac1350600) 0x9e, CmdSN 0x2452e from world 0 to dev "mpx.vmhba32:C0:T0:L0" failed H:0x7 D:0x0 P:0x0 Invalid sense data: 0x0 0x6e 0x73. As a result, when your environment has a large number of snapshot LUNs, the query and listing operation might take significant time. Under heavy workload, the heartbeat issue might even cause ESXi hosts to fail with a purple diagnostic screen. Type Y and press Enter. Snapshot tree of a linked-clone VM might be incomplete after a vSAN network recovery from a failureA vSAN network failure might impact accessibility of vSAN objects and VMs. After a network recovery, the vSAN objects regain accessibility. Workaround: Before upgrading Windows vCenter Server 6.0.x or 6.5.x to vCenter Server 6.7, upgrade the ESXi 5.5.x with the non-ASCII or high-ASCII named host profiles to ESXi 6.0.x or 6.5.x, then update the host profile from the upgraded host by clicking Copy setting from the hosts. If the ESXi cached image is found, the host is booted from it. Workaround: Enable Hyper-V Platform on Windows Server 2016. Note: The legacy VMKLinux ixgbe inbox driver version 3.7.x does not support Intel X550 NICs. Use the VMKLinux ixgbe async driver version 4.x with Intel X550 NICs. Unable to unstage patches when using an external Platform Services ControllerIf you are patching an external Platform Services Controller (an MxN topology) using the VMWare Appliance Management Interface with patches staged to an update repository, and then attempt to unstage the patches, the following error message is reported: Error in method invocation [Errno 2] No such file or directory: '/storage/core/software-update/stage' Workaround: Access the appliance shell and log in as a user who has a super administrator role. PR 2613897: ESXi hosts fail with purple diagnostic screen during vSphere vMotion operations in environments with enabled Distributed Firewall (DFW) or NSX Distributed IDS/IPSThe source ESXi host in a vSphere vMotion operation might fail with a purple diagnostic screen due to a race condition in environments with either Distributed Firewall (DFW) or NSX Distributed IDS/IPS enabled. PR 2621143: In the vSphere Web Client, you cannot change the log level configuration of the vpxa service after an upgrade of your vCenter Server systemIn the vSphere Web Client, you might not be able to change the log level configuration of the vpxa service on an ESX host due to a missing or invalid Vpx.Vpxa.config.log.level option after an upgrade of your vCenter Server system. PR 2643255: Virtual machines lose connectivity to other virtual machines and networkA rare failure of parsing strings in the vSphere Network Appliance (DVFilter) properties of a vSphere Distributed Switch might cause all traffic to and from virtual machines on a given logical switch to fail. vCenter Server stops working in some cases when using vmodl to edit or expand a diskWhen you configure a VM disk in a Storage DRS-enabled cluster using the latest vmodl, vCenter Server stops working. PR 2539704: If the port index in an Enhanced Networking Stack environment is higher than 128, ESXi hosts might fail with a purple diagnostic screenAfter you enable the Enhanced Networking Stack in your environment and the port index happens to exceed 128, ESXi hosts might fail with a purple diagnostic screen. PR 2640971: vSAN host fails during shutdownIf a shutdown operation is performed while a vSAN host has pending data to send, the host might fail with purple diagnostic screen. Virtual Machine Management Issues Name of the virtual machine in the inventory changes to its path nameThis issue might occur when a datastore where the VM resides enters the All Paths Down state and becomes inaccessible. When hostd is loading or reloading VM state, it is unable to read the VM's name and returns the VM path instead. To continue the migration, manually create the export.zip file from the export folder. The issue occurs because the hardware health monitoring system does not appropriately decode the Mem_Stat_* sensors when the first LUN is enabled after the upgrade. If you use vSphere Update Manager, you see a message similar to cannot execute upgrade script on host. This results in the VM remaining in inaccessible state and VM snapshot information not being displayed in vCenter Server. This is due to an on-chip agent running on firmware to consume LLDP frames received from LAN ports. Workaround: None vCenter Server for Windows migration to vCenter Server Appliance fails with errorWhen you migrate vCenter Server for Windows 6.0.x or 6.5.x to vCenter Server Appliance 6.7, the migration might fail during the data export stage with the error: The compressed zip folder is invalid or corrupted. Release Date November 19, 2020 Acceptance Level PartnerSupported Affected Hardware N/A Affected Software N/A Affected VIBs VMware_bootbank_esx-update_6.7.0-3.128.17167699 VMware_bootbank_vsanhealth_6.7.0-3.128.17098397 VMware_bootbank_esx-base_6.7.0-3.128.17167699 VMware_bootbank_vsan_6.7.0-3.128.17098396 PRs Fixed 2633870, 2671479 Related CVE numbers CVE-2020-4004, CVE-2020-4005 This patch updates the following issues: The SQLite database is updated to version 3.33.0. The ESXi userworld libcurl library is updated to libcurl-7.72.0. The OpenSSH version is updated to 8.3p1. Release Date: NOV 19, 2020 Build Details Download Filename: ESXi670-202011002.zip Build: 17167734 Download Size: 475.3 MB md5sum: ba6c848559c291809bcb0e81d2c60a0c sha1checksum: 073ab9895c9db6e75ab38e41e5d79cbb37a5f760 Host Reboot Required: Yes Virtual Machine Migration or Shutdown Required: Yes Bulletins Bulletin ID Category Severity ESXi670-202011401-BG Bugfix Critical ESXi670-202011402-BG Bugfix Important ESXi670-202011403-BG Bugfix Moderate ESXi670-202011404-BG Bugfix Important ESXi670-202011101-SG Security Critical Rollup Bulletin This rollup bulletin contains the latest VIBs with all the fixes since the initial release of ESXi 6.7. Bulletin ID Category Severity ESXi670-202011002 Bugfix Critical IMPORTANT: For clusters using VMware vSAN, you must first upgrade the vCenter Server system. vSphere supports running Windows with VBS enabled starting in the vSphere 6.7 release. To make sure you enable the fix, follow these steps: 1. CIM Issues NEW: After an upgrade to ESXi670-202004002, you might see a critical warning in the vSphere Client for the fan health of HP Gen10 serversAfter an upgrade to ESXi670-202004002, you might see a critical warning in the vSphere Client for the fan health of HP Gen10 servers due to a false positive validation. As a result, the host cannot boot from the image even if the image is present on the disk. Workaround: First power off VMs and then reboot the ESXi host. These data requests can lead to multiple login operations on the cluster hosts. This issue occurs only when a networking error or a timeout of the VASA provider happens exactly at the time when the ESXi host attempts to report the protocol endpoint LUNs to the VASA provider. You can then use other batch APIs to perform operations, such as resignaturing specific unresolved VMFS volumes. 3. Format the unformatted USB drive with a file system or unplug it from the server. vCenter Server containing host profiles with version less than 6.0 fails during upgrade to version 6.7vCenter Server 6.7 does not support host profiles with version less than 6.0. To upgrade to vCenter Server 6.7, you must first upgrade the host profiles to version 6.0 or later, if you have any of the following components: ESXi host(s) version - 5.1 or 5.5 vCenter server version - 6.0 or 6.5 Host profiles version - 5.1 or 5.5 Workaround: See KB 52932 After upgrading to vCenter Server 6.7, any edits to the ESXi host's /etc/ssh/sshd_config file are discarded, and the file is restored to the vCenter Server 6.7 default configurationDue to changes in the default values in the /etc/ssh/sshd_config file, the vCenter Server 6.7 upgrade replaces any manual edits to this configuration file with the default configuration. This issue is resolved in this release. PR 2659304: You see health alarms for sensor entity ID 44 after upgrading the firmware of HPE Gen10 serversAfter upgrading the firmware version on HP Gen10 servers, you might see health alarms for the I/O Module 2 ALOM_Link_P2 and NIC_Link_02P2 sensors, related to the sensor entity ID 44.x. The alarms do not indicate an actual health issue and you can ignore them irrespective of the firmware version. For example, the issue occurs when you convert such a virtual machine template, and then deploy other virtual machines from that template. On ESXi hosts that use a VID:PID/0bda:0329 Realtek Semiconductor Corp USB 3.0 SD card reader device that does not support Read Capacity 16, you might see numerous errors in the vmkernel log such as: 2020-06-30T13:26:06.141Z cpu0:2097243)ScsiDeviceIO: 3449: Cmd(0x459ac1350600) 0x9e, CmdSN 0x2452e from world 0 to dev "mpx.vmhba32:C0:T0:L0" failed H:0x7 D:0x0 P:0x0 Invalid sense data: 0x0 0x6e 0x73. The issue occurs if you attempt to open a file with .vswp extension as an object descriptor. A malformed UTF-8 string might cause a failure of the vpxa service and ESXi hosts might lose connectivity to the vCenter Server system as a result. Lazy import upgrade interaction when VCHA is not configuredThe VCHA feature is available as part of 6.5 release. PR 2645723: The vpxa service might intermittently fail due to a malformed string and ESXi hosts lose connectivity to the vCenter Server systemA malformed UTF-8 string might cause a failure of the vpxa service and ESXi hosts might lose connectivity to the vCenter Server system as a result. Warning message about a VMFS3 datastore remains unchanged after you upgrade the VMFS3 datastore using the CLITypically, you use the CLI to upgrade the VMFS3 datastore that failed to upgrade during an ESXi upgrade. Workaround: Disable the Embedded User Partition option in the server BIOS. Miscellaneous Issues ESXi might fail during reboot with VMs running on the iSCSI LUNs claimed by the qfle3i driverESXi might fail during reboot with VMs running on the iSCSI LUNs claimed by the qfle3i driver if you attempt to reboot the server with VMs in the running I/O state. In the sps logs, you see messages such as: 2017-03-10T11:31:46.694Z [pool-12-thread-2] ERROR opId=SWI-457448e1 com.vmware.vim.sms.provider.vasa.alarm.AlarmDispatcher - Error: ⁄occured as provider: org.apache.axis2.AxisFault: self signed certificate is offline and 2017-03-10T11:31:56.693Z [pool-12-thread-3] ERROR opId=sps-Main-135968-406 com.vmware.vim.sms.provider.vasa.event.EventDispatcher - Error occurred while polling events provider: In the iofiltervpd.log reports, you see a message such as: 2017-03-10T11:50:56Z iofiltervpd[66456]: IOFVPSSL_VerifySSLCertificate:150:Client certificate can't be verified This issue is resolved in this release. When editing a VM's storage policies, selecting Host-local PMem Storage Policy fails with an error In the Edit VM Storage Policies dialog, if you select Host-local PMem Storage Policy from the dropdown menu and click OK, the task fails with one of these errors: The operation is not supported on the object. The vSphere Client Events log shows multiple instances of the following event: dcui@127.0.0.1 logged in. This issue is resolved in this release. Workaround: There is no impact to work flow or results. From a TCP protocol standpoint this may cause incorrect packet checksums being reported to the ESXi software stack, which may lead to incorrect TCP protocol processing in the Guest OS. The Common Vulnerabilities and Exposures project (cve.mitre.org) has assigned the identifier CVE-2020-4005 to this issue. Editing the host profile gives a validation error. VMware ESXi contains a privilege-escalation vulnerability that exists in the way certain system calls are being managed. You cannot power on or operate the virtual machine after the failure. The default configuration file now contains a version number. Verify the vSwitch configuration on vmnic associated with the missing FCoE adapter. Image Profile Name ESXi-6.7.0-20201104001-standard ESXi-6.7.0-20201104001-no-tools ESXi-6.7.0-20201101001s-standard ESXi-6.7.0-20201101001s-no-tools For more information about the individual bulletins, see the Download Patches page and the Resolved Issues section. Windows vCenter Server 6.7 installer fails when non-ASCII characters are present in password The Windows vCenter Server 6.7 installer fails when the Single Sign-on password contains non-ASCII characters for Chinese, Japanese, Korean, and Taiwanese locales. After upgrading the firmware version on HP Gen10 servers, you might see health alarms for the I/O Module 2 ALOM_Link_P2 and NIC_Link_02P2 sensors, related to the sensor entity ID 44.x. The alarms do not indicate an actual health issue and you can ignore them irrespective of the firmware version. PR 2656056: vSAN all-flash experiences random high write latency spikes In an all-flash vSAN cluster, guest virtual machines and applications might experience random high write latency spikes. This issue will be resolved with the release of the first patch for vSphere 6.7. Workaround: None. PR 2625293: After a backup operation, identical error messages flood the hostd.log fileAfter a backup operation, identical error messages, such as Block list: Cannot convert disk path to real path, skipping., might flood the hostd.log file. Workaround: Select "Secure boot" Platform Security Level in a Guest OS on AMD systems. Preserve the version number to avoid overwriting the file. Workaround: Move the available standby adapters to the active adapters list in the teaming policy of the distributed port group. If you restore a storage device configuration backed up by using backup.sh after more than 7 days, some settings might be lost If you restore backup after more than 7 days, storage device settings, such as Is perennially reserved, might be lost. After upgrading HPE servers, such as HPE ProLiant Gen10 and Gen10 Plus, to iLO 5 firmware version 2.30, in the vSphere Web Client you see memory sensor health alerts. If you are using automated scripts, you must modify the scripts to include the additional step. If you cannot apply this patch, do not perform a reset or restart of the virtual machine before hot-plug operations or driver installations complete. To disable the VXLAN stateless offload feature in UCS Manager, disable the Virtual Extensible LAN field in the Ethernet Adapter Policy. Workaround: Follow the steps described in VMware knowledge base article 78989. Navigate to Networking configuration > Host virtual nic or Host portgroup > (name of the vSphere Distributed Switch or name of portgroup) > IP address settings. Workaround: Do not use the colon character (:) to set the vCenter Server root password in the vCenter Server Appliance UI (Set up appliance VM of Stage 1). Application of the general release image profile applies to new bug fixes. The logs are identical: acpiNotifyQueue: Spurious ACPI event completion, data 0xFFFFFFFF. PR 2647710: The advanced config option UserVars/HardwareHealthIgnoredSensors fails to ignore some sensorsIf you use the advanced config option UserVars/HardwareHealthIgnoredSensors to ignore sensors with consecutive entries in a numeric list, such as 0.52 and 0.53, the operation might fail to ignore some sensors. Workaround: To enable Intel network adapters to receive LLDP packets, you must: Use a firmware version >= 6.0 Use a driver version >= 1.7.x Configure the LLDP module parameter of i40en to 0. Reboot the host. The issue occurs because the hardware health monitoring system does not appropriately decode the Mem_Stat_* sensors when the first LUN is enabled after the upgrade. Initial install of DELL CIM VIB might fail to respondAfter you install a third-party CIM VIB it might fail to respond. Do not select PEERDNS from a vmknic that is connected to an NSX-T based opaque network. A stateless ESXi host boot time might take 20 minutes or moreThe booting of a stateless ESXi host with 1,000 configured datastores might require 20 minutes or more. After a backup operation, identical error messages, such as Block list: Cannot convert disk path to real path, skipping., might flood the hostd.log file. PR 2641029: Changes in the Distributed Firewall (DFW) filter configuration might cause virtual machines to lose network connectivity Any DFW filter reconfiguration activity, such as adding or removing filters, might cause some filters to start dropping packets. The issue occurs if an orphaned or unused file .nvram exists in the VM configuration files. Workaround: Disable automatic unmapping on volumes backed by LUNs that have optimal unmap granularity greater than 1 MB. Upgrading only the ESXi hosts is not supported. Intel Fortville series NICs cannot receive Geneve encapsulation packets with option length bigger than 255 bytesIf you configure Geneve encapsulation with option length bigger than 255 bytes, the packets are not received correctly on Intel Fortville NICs X710, XL710, and XXV710. The Common Vulnerabilities and Exposures project (cve.mitre.org) has assigned the identifier CVE-2020-4004 to this issue. The password might be accepted by the password rule check, but installation fails. An OVF Virtual Appliance fails to start in the vSphere ClientThe vSphere Client does not support selecting vService extensions in the Deploy OVF Template wizard. PR 2643507: If a virtual machine restarts or resets during a hot-plug operation, vmware.log spam might fill up the available disk space and make the virtual machine unresponsiveIf a virtual machine restarts or resets during a hot-plug operation, logs in the vmware.log file of the virtual machine might fill up the available disk space and make the virtual machine unresponsive. When using the VCSA Installer Time Sync option, you must connect the target ESX to the NTP server in the Time & Date Setting from the ESX ManagementIf you want to select Time Sync with NTP server from the VCSA Installer->Stage2->Appliance configuration->Time Sync option (ESX/NTP server), you also need to have the target ESX already connected to NTP server in the Time&Date Setting from the ESX Management, otherwise it'll fail in installation. Workaround: None. For more information on using TLS 1.2 with Windows Server 2008 R2, refer to the operating system vendor's documentation. You might see an error message similar to P2M reservation failed after max retries. This fix increases the default batch size to 1024. This operation is time consuming and requires at least 16 seconds per LUN. As a result, the VIB becomes incompatible with the rolled back ESXi host causing these issues. Check vSphere Client logs for details. Snapshot information will be loaded from storage. You see an error such as #PF Exception 14 in world 2125468 on a purple diagnostic screen. The password might be accepted by the password rule check during the setup, but login fails. Delete the export.zip created by the Migration Assistant. After migrating the external Platform Services Controller (PSC), when you run Migration Assistant on the Management node it fails, reporting that it cannot retrieve the PSC version. Workaround: If edits to /etc/ssh/sshd_config are needed, you can apply them after successfully completing the vCenter Server 6.7 upgrade. PR 2638586: You cannot remove large pages backing on a per-VM basis With ESXi670-202011002, you can use the .vmx option monitor_control.disable_mmu_largepages = TRUE to define whether to use large pages backing on a per-VM basis. The configuration file is located in /etc/vmware/hostd/config.xml under plugins/hostsvc/storage node. PR 2622858: Automatic recreation of vSAN disk group fails If /LSOM/lsomEnableRebuildOnLSE is enabled on a disk, and the device's unmap granularity is not set to a multiple of 64K, the rebuild operation might fail. CAUTION: Editing /etc/ssh/sshd_config is not recommended. You can also set the NFS datastore write permission to both the IP address of the NFS vmknic and the IP address of the Management vmknic. If the value of the PersistenceType property in a createInstance query by sfcb is null, the sfcb-CIMXML-Processor service might fail with a core dump. If you have .vswp swap files in a virtual machine directory, you see Device or resource busy error messages when scanning all files in the directory. Compliance check fails with an error for the UserVars.ESXiVPsDisabledProtocols option when an ESXi host upgraded to version 6.7 is attached to a host profile with version 6.0Issue occurs when you perform the following actions: Extract a host profile from an ESXi host with version 6.0. Upgrade the ESXi host to version 6.7. The host appears as non-compliant for UserVars.ESXiVPsDisabledProtocols option even after remediation. Workaround: The Fault Domain Manager VIB is signed with a new ESXi VIB certificate and you must upgrade ESXi hosts to a later versions. If you select the vCenter Server, and click Monitor > Health, an error message appears: Unable to query vSAN health information. In the output of the summarize-dvfilter command, you see state: IOChain Detaching for the failed filter. Workaround: Extract a new host profile from the upgraded ESXi host and attach the host to the profile. The following VMware Tools ISO images are bundled with ESXi670-202011002: windows.iso: VMware Tools 11.1.1 ISO image for Windows Vista (SP2) or later linux.iso: VMware Tools 10.3.22 ISO image for Linux OS with glibc 2.5 or later The following VMware Tools ISO imagess are available for download: VMware Tools 11.0.6 windows.iso: for Windows Vista (SP2) and Windows Server 2008 Service Pack 2 (SP2) VMware Tools 10.0.12 winPreVista.iso: for Windows 2000, Windows XP, and Windows 2003 VMWare Tools 10.3.22 linux.iso: for Linux OS with glibc 2.5 or later VMware Tools 10.3.10 solaris.iso: VMware Tools image for Solaris darwin.iso: VMware Tools image for OSX Follow the procedures listed in the following documents to download VMware Tools for platforms not bundled with ESXi: VMware ESXi contains a use-after-free vulnerability in the XHCI USB controller. For further information on editing the /etc/ssh/sshd_config file, see the following Knowledge Base articles: For information on enabling public/private key authentication, see Knowledge Base article KB 1002866 For information on changing the default SSHD configuration, see Knowledge Base article KB 1020530 Security Features Issues Virtualization Based Security (VBS) on vSphere in Windows Guest OSs RS1, RS2 and RS3 require HyperV to be enabled in the Guest OS.Virtualization Based Security (VBS) on vSphere in Windows Guest OSs RS1, RS2 and RS3 require HyperV to be enabled in the Guest OS. You can update ESXi hosts by manually downloading the patch ZIP file from the VMware download page and installing the VIBs by using the esxcli software vib update command. The consumption prevents software depending on LLDP frames, such as virtual distributed switches, to get LLDP packets. Since vIOMMU is required for

DMA protection, AMD users cannot select "Secure Boot and DMA protection" in the Windows Group Policy Editor when they "Turn on Virtualization Based Security". Such host profiles lack the Portgroup backing the vmkernel network adapter to be used for DNS policy in the DNS subprofile. For more details about known issues and solutions, see KB 52621 If you use Single Root I/O Virtualization (SR-IOV) and modify a physical function (PF) for the ixgben driver, some virtual machines might lose connectivityIf you use SR-IOV and reset a PF, or first down a PF and then up the PF, virtual machines that use an SR-IOV virtual function for networking might lose connectivity. If IPv6 is not enabled in your environment, the sfcb-vmware_base process might leak memory while enumerating instances of the CIM_IPProtocolEndpoint class. Before an upgrade, always verify in the VMware Product Interoperability Matrix compatible upgrade paths from earlier versions of ESXi, vCenter Server and vSAN to the current version. Image Profiles VMware patch and update releases contain general and critical image profiles. If you edit the settings of a running virtual machine to change an existing virtual CD/DVD drive to become a client device, in some cases, the virtual machine powers off and gets into an invalid state. This might occur when you use Cavium QLogic 57810 or QLogic 57840 CNAs supported by the qfle3 driver. If you enable LiveCoreDump as an option to collect system logs on an ESXi host, the host might become unresponsive. As a result, shared memory pages might break. In vSphere 6.5, these two steps are presented as a single recommendation for entering maintenance mode, which lists all VMs to be migrated. Longer messages are split into multiple parts. Workaround: Set the server BIOS mode to UEFI before you install or upgrade ESXi. After an ESXi upgrade to version 6.7 and a subsequent rollback to version 6.5 or earlier, you might experience failures with error messagesYou might see failures and error messages when you perform one of the following on your ESXi host after reverting to 6.5 or earlier versions: Install patches and VIBs on the host Error message: [DependencyError] VIB VMware_locker_tools-light requires esx-version >= 6.6.0 Install or upgrade VMware Tools on VMs Error message: Unable to install VMware Tools. As a result, I/O traffic piles up to an extent that might cause and entire vSAN cluster to become unresponsive. PR 2637122: Replacing the certificate of an ESXi host causes I/O filter storage providers to go offlineWhen you navigate to Host > Certificate > Renew Certificate to replace the certificate of an ESXi 6.5.x host, I/O filter storage providers go offline. Disable the port and enable it. Update to OpenSSL library ESXi userworld OpenSSL library is updated to version openssl-1.0.2w. If you select a vmknic that is connected to a NSX-T based opaque network, host profiles extracted from this host do not work. If the virtual machines have an entry such as NVRAM = “nvram” in the .vmx file, the encryption operation creates an encrypted file with the NVRAM file extension, which the system considers a duplicate of the existing orphaned file. Workaround: Set the Time Sync option in stage2->Appliance configuration to sync with ESX Set the Time Sync option in stage2->Appliance configuration to sync with NTP Servers, make sure both the ESX and VC are set to connect to NTP servers. Operations with stateless ESXi hosts, such as storage migration, might not pick the expected remote disk for system cache. PR 2641914: Virtual machines encryption takes long and ultimately fails with an error Virtual machines encryption might take several hours and ultimately fail with The file already exists error in the hostd logs. Workaround: Reboot the ESXi server and then power on the virtual machines. PR 2531669: The sfcb-vmware_base process core dumps due to a memory reallocation failure If IPv6 is not enabled in your environment, the sfcb-vmware_base process might leak memory while enumerating instances of the CIM_IPProtocolEndpoint class. Workaround: Unregister the VM, then re-register it to force the hostd to reload the VM state. PR 2643670: vSAN host fails when removing disk groupWhen you decommission a VSAN disk group, the ESXi host might fail with purple diagnostic screen. The disk group is removed, but not recreated. SSHD is disabled by default, and the preferred method for editing the system configuration is through the VIM API (including the ESXi Host Client interface) or ESXCLI. Workaround: None vCenter Server Appliance 6.7 displays an error message in the Available Update section of the vCenter Server Appliance Management Interface (VAMI)The Available Update section of the vCenter Server Appliance Management Interface (VAMI) displays the following error message: Check the URL and try again. Cannot log in to vSphere Appliance Management Interface if the colon character (:) is part of vCenter Server root passwordDuring the vCenter Server Appliance UI installation (Set up appliance VM page of Stage 1), if you include the colon character (:) as part of the vCenter Server root password, logging into the vSphere Appliance Management Interface ( ) fails and you are unable to login. However, in vCenter Server, several datastores might continue to appear as inaccessible for a number of hosts. Backup and Restore Issues Windows Explorer displays some backups with unicode differently from how browsers and file system paths show themSome backups containing unicode display differently in the Windows Explorer file system folder than they do in browsers and file system paths. Workaround: To recover the vmkfcoe adapter, perform these steps: Run the esxcli storage core adapter list command to make sure that the adapter is missing from the list. If you set identical MAC address and uplink port address on devices using the i40en driver, vmknics might receive duplicate packagesIf you manually set the MAC address of a vmknic the same as the uplink port address on devices using the i40en driver, the vmknic might receive duplicate packages in heavy traffic. Special characters backslash (\) or double-quote (") used in passwords causes installation pre-check to failIf the special characters backslash (\) or double quote (") are used in ESXi, vCenter Single Sign-On, or operating system password fields during the vCenter Server Appliance Installation templates, the installation pre-check fails with the following error: Error message: com.vmware.vcsa.installer.template.cli_argument_validation: Invalid \escape: line ## column ## (char ###) Workaround: If you include special characters backslash (\) or double quote (") in the passwords for ESXi, operating systems, or Single-Sign-On, the special characters need to be escaped. SSH to the host and run one of these commands: esxcli software vib install -v /path/to/tools-light.vib or esxcli software vib install -d /path/to/depot/zip -n tools-light Where the vib and zip are of the currently running ESXi version. Compliance check fails with an error when applying a host profile with enabled default IPv4 gateway for vmknic interfaceWhen applying a host profile with enabled default IPv4 gateway for vmknic interface, the setting is populated with "0.0.0.0" and does not match the host info, resulting with the following error: IPv4 vmknic gateway configuration doesn't match the specification Workaround: Edit the host profile settings. Patch Download and Installation The typical way to apply patches to ESXi hosts is by using the VMware vSphere Update Manager. For more information, see VMSA-2020-0026. ESXi-6.7.0-20201104001-standard Profile Name ESXi-6.7.0-20201104001-standard Build For build information, see Patches Contained in this Release. This error occurs because Windows Server 2008 R2 does not support Transport Layer Security (TLS) 1.2 by default, which is the default TLS protocol for Platform Services Controller 6.7. Workaround: Enable TLS 1.2 for Windows Server 2008 R2.1. Navigate to the registry key: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols Create a new folder and label it TLS 1.2. Create two new keys with the TLS 1.2 folder, and name the keys Client and Server. ESXi-6.7.0-20201101001s-standard Profile Name ESXi-6.7.0-20201101001s-standard Build For build information, see Patches Contained in this Release. If you use ESXCLI, you see a message Could not find a trusted signer. Uncheck Hyper-V Management Tools. You must apply the recommendations twice. Go to the %appdata%\vmware\migration-assistant folder. The issue is specific to a scenario when you navigate to Host > Configure > TCP/IP configuration > Default > DNS configuration > Obtain settings automatically from a VMkernel network adapter. Workaround: For more details on the issue and workaround, see VMware knowledge base article 76555. After the hosts in the cluster recover from the permanent device loss condition, the datastores are mounted successfully at the host level. If a virtual machine restarts or resets during a hot-plug operation, logs in the vmware.log file of the virtual machine might fill up the available disk space and make the virtual machine unresponsive. Select Create the Coredump file with an explicit datastore and size option and enter the Datastore name, where you want the Coredump File to reside. VMware ESXi contains a privilege-escalation vulnerability that exists in the way certain system calls are being managed. PR 2639827: The OCFlush process might cause ESXi hosts to fail with a purple diagnostic screenThe OCFlush process is non-preemptable, which might lead to a heartbeat issue. For more information, see VMSA-2020-0026. The vSphere Client Events log shows multiple instances of the following event: dcui@127.0.0.1 logged in. Workaround: Perform the following to fix this problem. Workaround: Ensure that the Single Sign-on password contains ASCII characters only for Chinese, Japanese, Korean, and Taiwanese locales. The fix provides a consistent way to sort the remote disks and always pick the disk with the lowest LUN ID. The issue occurs when vSphere vMotion operations start soon after you add ESXi hosts to a vSphere Distributed Switch. The Host Profiles feature does not support saving the numRxQueue value after the host reboots. Release Date November 19, 2020 Acceptance Level PartnerSupported Affected Hardware N/A Affected Software N/A Affected VIBs VMware_bootbank_vsanhealth_6.7.0-3.132.17135221 VMware_bootbank_vsan_6.7.0-3.132.17135222 VMware_bootbank_esx-base_6.7.0-3.132.17167734 VMware_bootbank_esx-update_6.7.0-3.132.17167734 VMW_bootbank_nvme_1.2.2.28-4vmw.670.3.132.17167734 VMW_bootbank_vmkusb_0.1-1vmw.670.3.132.17167734 VMW_bootbank_vmw-ahci_2.0.5-2vmw.670.3.132.17167734 PRs Fixed 2623890, 2587530, 2614441, 2600239, 2613897, 2657657, 2652346, 2625293, 2641914, 2653741, 2649677, 2644214, 2624574, 2531669, 2659304, 2640971, 2647710, 2587397, 2622858, 2639827, 2643255, 2643507, 2645723, 2617315, 2637122, 2621143, 2656056, 2603460, 2630579, 2656196, 2630045, 2645428, 2638586, 2539704, 2641029, 2643589, 2643094 Related CVE numbers N/A This patch updates the following issues: If the storage controller behind a disk group goes down, it is possible that not all devices in the group, affected by the APD, process the state. The vSphere Client summary tab displays the build for the vCenter product, which is a component within the vCenter Server product. On the Edit host profile page of the Auto Deploy wizard, select Advanced Configuration Settings > System Image Cache Configuration > System Image Cache Configuration. Go to Computer > Properties > Advanced system settings > Environment Variables > System Variables > New. Workaround: To fix this issue, enter the following two commands to restart sfcbd: esxcli system wbem set --enable false esxcli system wbem set --enable true To collapse the list of previous known issues, click here. If you already face the issue, manually delete the orphaned .nvram file before encryption. vCenter hardware health alarm notifications are not triggered in some instancesWhen multiple sensors in the same category on an ESXi host are tripped within a time span of less than five minutes, traps are not received and email notifications are not sent. The source ESXi host in a vSphere vMotion operation might fail with a purple diagnostic screen due to a race condition in environments with either Distributed Firewall (DFW) or NSX Distributed IDS/IPS enabled. In legacy BIOS, this feature works without problems. The second prompt is to migrate all VMs on a host entering maintenance mode. In the System Image Cache Profile Settings drop-down menu, select Enable stateless caching on the host. NOTE: Do not press any keys or tabs on the Migration Assistant console. A virtual machine that has a PCI passthrough device assigned to it might fail to power on in a vCenter Server system with an AMD EPYC 7002 series processorIn specific vCenter Server system configurations and devices, such as AMD EPYC 7002 series processors, a virtual machine that has a PCI passthrough device assigned to it might fail to power on. The mirror session fails to configure, but the port connection is restored. This leads to incorrect status for the CPU and Memory sensors in the Managed Object Browser. Click Access, and click Edit. The fix increases the Net.TeamPolicyUpDelay parameter to 30 minutes. Workaround: If autodeploy service is down, on the system reboot, manually select the disk with the cached image from the UEFI Boot Manager. Workaround: To restore port connection failure, complete either one of the following: Remove the failed port and add a new port. Workaround: After successfully upgrading to vCenter Server Appliance 6.7, log into the vCenter Server Appliance Management Interface as root. By default, the ESXi syslog daemon (vmsyslogd), strictly adheres to the maximum message length of 1 KiB set by RFC 3164. Quiescing operations of virtual machines on volumes backed by LUNs supporting unmap granularity value greater than 1 MB might take longer than usualVMFS datastores backed by LUNs that have optimal unmap granularity greater than 1 MB might get into repeated on-disk locking during the automatic unmap processing. As an alternative, you can switch to the following end-to-end configuration: ESXi host > Cisco FCoE switch > FC switch > storage array from the DELL EMC VNX5300 and VNX5700 series. Network flapping on a NIC that uses qfle3f driver might cause ESXi host to crashThe qfle3f driver might cause the ESXi host to crash (PSOD) when the physical NIC that uses the qfle3f driver experiences frequent link status flapping every 1-2 seconds. Native software FCoE adapters configured on an ESXi host might disappear when the host is rebootedAfter you successfully enable the native software FCoE adapter (vmhba) supported by the vmkfcoe driver and then reboot the host, the adapter might disappear from the list of adapters. Alternatively, you can use the command esxcfg-advcfg -s Net/TeamPolicyUpDelay. Workaround: Either set up the vCenter Single Sign-On password with ASCII characters, or use the –p password option when you run the camregister command to enter the vCenter Single Sign-On password that contains non-ASCII characters. The issue occurs if an orphaned or unused file .nvram exists in the VM configuration files. If /LSOM/lsomEnableRebuildOnLSE is enabled on a disk, and the device's unmap granularity is not set to a multiple of 64K, the rebuild operation might fail. Additionally, you can update the system by using the image profile and the esxcli software profile update command. This occurs if autodeploy service is down. You cannot hot add memory and CPU for Windows VMs when Virtualization Based Security (VBS) is enabled within WindowsVirtualization Based Security (VBS) is a new feature introduced in Windows 10 and Windows Server 2016. For a virtual disk, you can use the migration wizard to migrate the virtual disk and apply the Host-local PMem Storage Policy. By default, when the API QueryUnresolvedVmfsVolume is invoked on a host, the system performs an additional filesystem liveness check for all unresolved volumes that are found. The liveness check detects whether the specified LUN is mounted on other hosts, whether an active VMFS heartbeat is in progress, or if there is any filesystem activity. The virtual machines might fail or power off. After the ESXi rollback from version 6.7, the new tools-light VIB does not revert to the earlier version. ESXi 6.7 host profiles might not support PEERDNS from vmknics that are attached to a VMware NSX-T based opaque network In certain cases, host profiles on ESXi 6.7 might not support PEERDNS from vmknics that are attached to an NSX-T based opaque network. As a result of an ongoing lazy import, the amount of data that needs to be cloned is large and may lead to performance issues. Workaround: To decrease the time of the query operation, you can disable the filesystem liveness check. Log in to your host as root. One of the extents on the spanned datastore is offline. For example, if you run the command esxcfg-advcfg -s 52,53 /UserVars/HardwareHealthIgnoredSensors, only the sensor 0.53 might be ignored. In the hostd.log, you can see an error similar to Expected permission (3) for /dev/cdrom/mpx.vmhba2:C0:T7:L0 not found. You see an error such as #PF Exception 14 in world 2125468 on a purple diagnostic screen. In the hostd.log, you can see an error similar to Expected permission (3) for /dev/cdrom/mpx.vmhba2:C0:T7:L0 not found. For more information, see VMSA-2020-0026. ESXi-6.7.0-20201101001s-no-tools Profile Name ESXi-6.7.0-20201101001s-no-tools Build For build information, see Patches Contained in this Release. RSPAN_SRC mirror session fails after migration When a VM connected to a port assigned for RSPAN_SRC mirror session is migrated to another host, and there is no required pNic on the destination network of the destination host, then the RSPAN_SRC mirror session fails to configure on the port. For example, the password pass\word should be escaped as pass\\word. Add the checkLiveFSUnresolvedVolume parameter and set its value to FALSE. Click OK to save the settings. Upgrade the host profile by using the Copy Settings from Host from the upgraded ESXi host. 2. Workaround: Disable the use of the interrupt remapper by setting the kernel boot option iovDisableIR to TRUE: Set iovDisableIR=TRUE by using this command: # esxcli system settings kernel set -s iovDisableIR -v TRUE Reboot the ESXi host. Migration of a virtual machine from a VMFS3 datastore to VMFS5 fails in a mixed ESXi 6.5 and 6.7 host environmentIf you have a mixed host environment, you cannot migrate a virtual machine from a VMFS3 datastore connected to an ESXi 6.5 host to a VMFS5 datastore on an ESXi 6.7 host. This issue is resolved in this release. PR 2624574: The sfcb-CIMXML-Processor service might fail while creating an instance request If the value of the PersistenceType property in a createInstance query by sfcb is null, the sfcb-CIMXML-Processor service might fail with a core dump. or Incompatible device backing specified for device '0'"Detailed Workaround: You cannot apply the Host-local PMem Storage Policy to VM home. Workaround: After you resolve the storage issue, the virtual machine reloads, and its name is displayed again. Edit Arguments for first disk by replacing remote with sortedremote and/or remoteesx with sortedremoteesx. If a network adapter is replaced or the network adapter address is changed, Linux virtual machines that use EFI firmware and iPXE to boot from a network, might become unresponsive. The swap files of the VMX process and the virtual machine main memory have the same extension .vswp, but the swap files of the VMX process must not be opened as object descriptors. To disable the VXLAN stateless offload feature in the CIMC of a Cisco C-Series UCS server, uncheck Enable VXLAN field in the Ethernet Interfaces vNIC properties section. Enter "MA_INTERACTIVE_MODE" as variable name with value 0 or 1. If you use the advanced config option UserVars/HardwareHealthIgnoredSensors to ignore sensors with consecutive entries in a numeric list, such as 0.52 and 0.53, the operation might fail to ignore some sensors. For vmk0 management network, where vmnics use the same MAC address and uplink port address by default, do not use the vmnics for heavy workloads. Workaround: On the hosts that show inaccessible datastores in the vCenter Server view, perform the Rescan Storage operation from vCenter Server. From the Mode drop-down menu, select Disabled. Workaround: Do not set the MAC address of a vmknic the same as the uplink port address. However, if you use DHCP, the virtual machines IPs might change. The following VMware Tools ISO images are bundled with ESXi670-202011002: windows.iso: VMware Tools 11.1.1 ISO image for Windows Vista (SP2) or later linux.iso: VMware Tools 10.3.22 ISO image for Linux OS with glibc 2.5 or later The following VMware Tools ISO imagess are available for download: VMware Tools 11.0.6 windows.iso: for Windows Vista (SP2) and Windows Server 2008 Service Pack 2 (SP2) VMware Tools 10.0.12 winPreVista.iso: for Windows 2000, Windows XP, and Windows 2003 VMWare Tools 10.3.22 linux.iso: for Linux OS with glibc 2.5 or later VMware Tools 10.3.10 solaris.iso: VMware Tools image for Solaris darwin.iso: VMware Tools image for OSX Follow the procedures listed in the following documents to download VMware Tools for platforms not bundled with ESXi: VMware ESXi contains a use-after-free vulnerability in the XHCI USB controller. Workaround: Use the vSphere Web Client to deploy OVF virtual appliances that use vService extensions. vSphere HA and Fault Tolerance Issues When you configure Proactive HA in Manual/MixedMode in vSphere 6.7 RC build you are prompted twice to apply DRS recommendations When you configure Proactive HA in Manual/MixedMode in vSphere 6.7 RC build and a red health update is sent from the Proactive HA provider plug-in, you are prompted twice to apply the recommendations under Cluster -> Monitor -> vSphere DRS -> Recommendations. If you already face the issue, power cycle the virtual machine. In the vmkernel logs, you see alerts such as: 2020-03-31T05:20:00.509Z cpu12:4528223)ALERT: hostd detected to be non-responsive Such a deadlock might affect other services as well, but the race condition window is small, and the issue is not frequent. The default root password is the password you set while deploying the vCenter Server Appliance. Note: For VMs that already have new VMware Tools installed, you do not have to revert VMware Tools back when ESXi host is rolled back. In the Time Synchronization pane, click Edit. Successful exploitation of this issue is only possible when chained with another vulnerability. The Mellanox ConnectX-4/ConnectX-5 native ESXi driver might exhibit performance degradation when its Default Queue Receive Side Scaling (DRSS) feature is turned onReceive Side Scaling (RSS) technology distributes incoming network traffic across several hardware-based receive queues, allowing inbound traffic to be processed by multiple CPUs. In Default Queue Receive Side Scaling (DRSS) mode, the entire device is in RSS mode. When you decommission a VSAN disk group, the ESXi host might fail with purple diagnostic screen. Workaround: To resolve this issue, disable the VXLAN stateless offload feature on the Cisco UCS VIC 13xx adapters for VXLAN encapsulated TCP traffic over IPV6. Workaround: Disable hardware VLAN stripping on these NICs by running the following command: esxcli network nic software set --untagging=1 -n vmnicX. You might see the following entries in the backtrace: 0x451a8049b9e0:[0x41803750bb65]PanicvPanicInt@vmkernel#nover+0x439 stack: 0x44a00000001, 0x418038764878, 0x451a8049baa8, 0x0, 0x418000000001 0x451a8049ba80:[0x41803750c0a2]Panic_vPanic@vmkernel#nover+0x23 stack: 0x121, 0x4180375219c1, 0x712d103, 0x10, 0x451a8049bb00 0x451a8049baa0:[0x4180375219c0]vmk_PanicWithModuleID@vmkernel#nover+0x41 stack: 0x451a8049bb00, 0x451a8049bac0, 0x0, 0x1, 0x418038764e48 0x451a8049bb00:[0x41803874707a]SSDLOG_FreeLogEntry@LSOMCommon#1+0x32b stack: 0x800000, 0x801000, 0xffffffffffffffff, 0x1000, 0x1d7ba0a 0x451a8049bb70:[0x4180387ae4d1]PLOG_RefDecLogEntryEx@com.vmware.plog#0.0.0.1+0x2e stack: 0x712d103, 0x121b103, 0x0, 0x0, 0x0 0x451a8049bbe0:[0x4180387dd08d]PLOGCleanupLsnTable@com.vmware.plog#0.0.0.1+0x72 stack: 0x431b19603150, 0x451a8049bc20, 0x0, 0x80100000000000, 0x100000000000 0x451a8049bcd0:[0x4180387dd2d3]PLOG_CleanupLsnTables@com.vmware.plog#0.0.0.1+0x80 stack: 0x4318102ba7a0, 0x1, 0x45aad11f81c0, 0x4180387dabb6, 0x4180387d9fbc 0x451a8049bd00:[0x4180387dabb5]PLOGRelogSM@com.vmware.plog#0.0.0.1+0x2ce stack: 0x800000, 0x1000, 0x712d11a, 0x0, 0x0 0x451a8049beb0:[0x4180386de2db]VSANServerMainLoop@com.vmware.vsanutil#0.0.0.1+0x590 stack: 0x43180fe83380, 0x2, 0x451a613a3780, 0x41803770cf65, 0x0 0x451a8049bf90:[0x4180375291ce]vmkWorldFunc@vmkernel#nover+0x4f stack: 0x4180375291ca, 0x0, 0x451a613a3100, 0x451a804a3000, 0x451a613a3100 0x451a8049bfe0:[0x4180377107da]CpuSched_StartWorld@vmkernel#nover+0x77 stack: 0x0, 0x0, 0x0, 0x0, 0x0 This issue is resolved in this release. vCenter hardware health alarms do not function with earlier ESXi versionsIf ESXi version 6.5 Update 1 or earlier is added to vCenter 6.7, hardware health related alarms will not be generated when hardware events occur such as high CPU temperatures, FAN failures, and voltage fluctuations. ESXi userworld OpenSSL library is updated to version openssl-1.0.2w. After the reboot, verify that iovDisableIR is set to TRUE: # esxcli system settings kernel list |grep iovDisableIR. Workaround: Make sure that network flapping does not occur. If the link status flapping interval is more than 10 seconds, the qfle3f driver does not cause ESXi to crash. For more information, see KB 2008093. Ensure that the Value field is set to 1 and that the Base is Hexadecimal for Enabled. Attempts to enable vSphere HA on a UEFI Secure Boot enabled cluster might fail with a timeout error Configuring vSphere HA on a UEFI Secure Boot enabled cluster might fail with Operation Timed Out error due to a change in the ESXi VIB certificates. VXLAN stateless hardware offloads are not supported with Guest OS TCP traffic over IPv6 on UCS VIC 13xx adaptersYou may experience issues with VXLAN encapsulated TCP traffic over IPv6 on Cisco UCS VIC 13xx adapters configured to use the VXLAN stateless hardware offload feature. For example, if you run the command esxcfg-advcfg -s 52,53 /UserVars/HardwareHealthIgnoredSensors, only the sensor 0.53 might be ignored. The fix analyzes reclaim responses in detail and allows retries only when necessary. If a vendor provider does not publish or define a max batch size, the default max batch size for vSphere API for Storage Awareness calls is 16. Click OK. Networking Issues Hostprofile PeerDNS flags do not work in some scenariosIf PeerDNS for IPv4 is enabled for a vmknic on a stateless host that has an associated host profile, the iPv6PeerDNS might appear with a different state in the extracted host profile after the host reboots. A previous workaround using an earlier vmodl no longer works and will also cause vCenter Server to stop working. Auto Deploy and Image Builder Issues Reboot of an ESXi stateless host resets the numRxQueue value of the hostWhen an ESXi host provisioned with vSphere Auto Deploy reboots, it loses the previously set numRxQueue value. The native nmlx5_core driver for the Mellanox ConnectX-4 and ConnectX-5 adapter cards enables the DRSS functionality by default. The Common Vulnerabilities and Exposures project (cve.mitre.org) has assigned the identifier CVE-2020-4005 to this issue. The installation fails with the error message Partitions not initialized. Workaround: You must zip the data export folder manually and follow these steps: In the source system, create an environment variable MA_INTERACTIVE_MODE. PR 2652346: If you have .vswp swap files in a virtual machine directory, you see Device or resource busy error messages when scanning all files in the directoryIf you have .vswp swap files in a virtual machine directory, you see Device or resource busy error messages when scanning all files in the directory. When you monitor Windows vCenter Server health, an error message appearsHealth service is not available for Windows vCenter Server. Under the Server key, create two DWORD (32-bit) values, and name them DisabledByDefault and Enabled. Under the Client key, create two DWORD (32-bit) values, and name them DisabledByDefault and Enabled. In the output of the summarize-dvfilter command, you see state: IOChain Detaching for the failed filter. Virtual machines encryption might take several hours and ultimately fail with The file already exists error in the hostd logs. Create a vmknic on the host with the expected numRxQueue value. PR 2630579: The Managed Object Browser might display CPU and Memory sensors status incorrectlyDue to an error in processing sensor entries, memoryStatusInfo and cpuStatusInfo data might incorrectly include the status for non-cpu and non-memory sensors as well. In a Web browser, go to: Log in as root. In the sps logs, you see messages such as: 2017-03-10T11:31:46.694Z [pool-12-thread-2] ERROR opId=SWI-457448e1 com.vmware.vim.sms.provider.vasa.alarm.AlarmDispatcher - Error: ﷿occured as provider: org.apache.axis2.AxisFault: self signed certificate is offline and 2017-03-10T11:31:56.693Z [pool-12-thread-3] ERROR opId=sps-Main-135968-406 com.vmware.vim.sms.provider.vasa.event.EventDispatcher - Error occurred while polling events provider: In the iofiltervpd.log reports, you see a message such as: 2017-03-10T11:50:56Z iofiltervpd[66456]: IOFVPSSL_VerifySSLCertificate:150:Client certificate can't be verified In the vSphere Web Client, you might not be able to change the log level configuration of the vpxa service on an ESX host due to a missing or invalid Vpx.Vpxa.config.log.level option after an upgrade of your vCenter Server system. The VMFS3 datastore might fail to upgrade due to several reasons including the following: No space is available on the VMFS3 datastore. However, the fix works only for new ESXi nodes. The driver presents a single logical queue to OS and is backed by several hardware queues. The OCFlush process is non-preemptable, which might lead to a heartbeat issue. Windows vCenter Server 6.0.x or 6.5.x upgrade to vCenter Server 6.7 fails if vCenter Server contains non-ASCII or high-ASCII named 5.5 host profilesWhen a source Windows vCenter Server 6.0.x or 6.5.x contains vCenter Server 5.5.x host profiles named with non-ASCII or high-ASCII characters, UpgradeRunner fails to start during the upgrade pre-check process. This issue is resolved in this release. The system attempts to search for the cached ESXi image on the disk, next in the boot order. In a vSphere HA environment, the vSphere Virtual Volumes algorithm uses UUID to pick out when multiple ESXi hosts compete to create and mount a Config-VVol with the same friendly name at the same time. In the screen, you see a message such as: VMware ESXi 6.7.0 [Releasebuild-xxxx x86_64] #PF Exception 14 in world 2097438:HELPER_NETWO IP 0x4180172d4365 addr 0x430e42fc3018 PTEs:0x10018f023;0x17a121063:0x193c11063;0x0; In the vmkernel-log.1 file, you see: 2020-03-30T18:10:16.203Z cpu32:2097438)@BlueScreen: #PF Exception 14 in world 2097438:HELPER_NETWO IP 0x4180172d4365 addr 0x430e42fc3018 PTEs:0x10018f023;0x17a121063;0x193c11063;0x0;. Workaround: If significant performance degradation is observed, you can disable the DRSS functionality. Workaround: Do not use the backslash character (\) to set the vCenter Single Sign-On password in the vCenter Server Appliance UI installer (SSO setup page of Stage 2) Scripted ESXi installation fails on HP ProLiant Gen 9 Servers with an error When you perform a scripted ESXi installation on an HP ProLiant Gen 9 Server under the following conditions: The Embedded User Partition option is enabled in the BIOS. You use multiple USB drives during installation: one USB drive contains the ks.cfg file, and the others USB drive is not formatted and usable. Workaround: Do not use DNS configuration esxcli commands on non-default TCP/IP stacks. Run the command software-packages unstage to unstage the staged patches. For example, you want to keep the new boot LUN as LUN 0, but vSphere Auto Deploy picks LUN 1. Due to unavailable P2M slots during migration by using vSphere vMotion, virtual machines might fail or power offMemory resourcing for virtual machines that require more memory, such as 3D devices, might cause an overflow of the P2M buffer during migration by using vSphere vMotion. You also see extra I/O flow on vSAN namespace objects and a slow down in the hostd service. Workaround: You can unmount and remount the datastores to regain connectivity through the NFS vmknic. The vpxa service automatically sets a valid value for the Vpx.Vpxa.config.log.level option and exposes it to the vSphere Web Client. All directories and files generated by the staging process are removed. Refresh the VMware Appliance Management Interface, which will now report the patches as being removed. The recommended approach for upgrade is to first remove the VCHA configuration either through vSphere Client or by calling a destroy VCHA API. Resolved Issues The resolved issues are grouped as follows. In the vmkernel log, you can see a similar message: 4512 2019-08-06T06:09:55.058Z cpu24:1001397137)AMDIOMMU: 611: IOMMU 0000:20:00.2: Failed to allocate IRTE for IOAPIC ID 243 vector 0x3f 4513 2019-08-06T06:09:55.058Z cpu24:1001397137)WARNING: IOAPIC: 1238: IOAPIC Id 243: Failed to allocate IRTE for vector 0x3f Workaround: Disable the use of the interrupt remapper by setting the kernel boot option iovDisableIR to TRUE: Set iovDisableIR=TRUE by using this command: # esxcli system settings kernel set -s iovDisableIR -v TRUE Reboot the ESXi host. Workaround: Use GRE or ERSPAN Type II packets, if your traffic analyzer supports these types. DNS configuration esxcli commands are not supported on non-default TCP/IP stacksDNS configuration of non-default TCP/IP stacks is not supported. Commands such as esxcli network ip dns server add -N vmotion -s 10.11.12.13 do not work. As a result, you might see loss of network connectivity. Check the Hyper-V Platform which includes the Hyper-V Hypervisor and Hyper-V Services. Port Mirror traffic packets of ERSPAN Type III fail to be recognized by packet analyzersA wrong bit that is incorrectly introduced in ERSPAN Type III packet header causes all ERSPAN Type III packets to appear corrupt in packet analyzers. After caching on a drive, if the server is in the UEFI mode, a boot from cache does not succeed unless you explicitly select the device to boot from the UEFI boot managerIn case of Stateless Caching, after the ESXi image is cached on a 512n, 512e, USB, or 4Kn target disk, the ESXi stateless boot from autodeploy might fail on a system reboot. vCenter Server Appliance, vCenter Server, vSphere Web Client, and vSphere Client Issues The time synchronization mode setting is not retained when upgrading vCenter Server ApplianceIf NTP time synchronization is disabled on a source vCenter Server Appliance, and you perform an upgrade to vCenter Server Appliance 6.7, after the upgrade has successfully completed NTP time synchronization will be enabled on the newly upgraded appliance. PR 2603460: In case of a non-UTF8 string in the name property of numeric sensors, the vpxa service fails The vpxa service fails in case of a non-UTF8 string in the name property of numeric sensors, and ESXi hosts disconnect from the vCenter Server system. If the Virtual Device Node is set to SATA(0:0), in the virtual machine configuration file, you see an entry such as: vpxa0:0.fileName = "/vmfs/devices/cdrom/mpx.vmhba2:C0:T7:L0". PR 2614441: The hostd service intermittently becomes unresponsiveIn rare cases, a race condition of multiple threads attempting to create a file and remove the directory at the same directory might cause a deadlock that fails the hostd service. Datastore name does not extract to the Coredump File setting in the host profileWhen you extract a host profile, the Datastore name field is empty in the Coredump File setting of the host profile. Vendor VMware, Inc. As a result, the restore operation might restore older timestamps. In rare cases, a race condition of multiple threads attempting to create a file and remove the directory at the same directory might cause a deadlock that fails the hostd service. In the vCenter Server Appliance Management Interface, click Time. From the Default gateway Vmkernal Network Adapter (IPv4) drop-down menu, select Choose a default IPv4 gateway for the vmknic and enter the Vmknic Default IPv4 gateway. As a result, you cannot access or power on virtual machines on the vSphere Virtual Volumes datastore. PR 2653741: Virtual machines on NFS 4.1 datastore might become unresponsive after an NFS server failover or failbackIf a reclaim request repeats during an NFS server failover or failback operation, the open reclaim fails and causes virtual machines on NFS 4.1 datastores to become unresponsive. The earlier known issues are grouped as follows. Edit the access settings for the Bash shell and SSH login. When enabling Bash shell access to the vCenter Server Appliance, enter the number of minutes to keep access enabled. The hostd service reloads the VM state from storage to recover VMs. However, for a linked-clone VM, hostd might not detect that the parent VM namespace has recovered its accessibility. PR 2644214: If you enable LiveCoreDump as an option to collect system logs on an ESXi host, the host might become unresponsive If you enable LiveCoreDump as an option to collect system logs on an ESXi host, the host might become unresponsive. For example, /vmfs/volumes/123456xxxxxxcc/cs-00.111.222.333. The maximum message length should be set to the smallest length supported by any of the syslog receivers or relays involved in the syslog infrastructure. You cannot run the camregister command with the -x option if the vCenter Single Sign-On password contains non-ASCII charactersWhen you run the camregister command with the -x file option, for example, to register the vSphere Authentication Proxy, the process fails with an access denied error when the vCenter Single Sign-On password contains non-ASCII characters. For more information on the impacted ESXi versions, see VMware knowledge base article 76555. After upgrade to ESXi 6.7, networking workloads on Intel 10GbE NICs cause higher CPU utilization If you run certain types of networking workloads on an upgraded ESXi 6.7 host, you might see a higher CPU utilization under the following conditions: The NICs on the ESXi host are from the Intel 82599EB or X540 families The workload involves multiple VMs that run simultaneously and each VM is configured with multiple vCPUs Before the upgrade to ESXi 6.7, the VMKLinux ixgbe driver was used Workaround: Revert to the legacy VMKLinux ixgbe driver: Connect to the ESXi host and run the following command: # esxcli system module set -e false -m ixgben Reboot the host. After you fix the reason of the failure and upgrade the VMFS3 datastore to VMFS5 using the CLI, the host continues to detect the VMFS3 datastore and reports the following error: Deprecated VMFS (ver 3) volumes found. This causes the port connection to fail failure but the vMotion migration process succeeds. Instead, nothing happens and ESXi continues running. For details, see the About Installing and Administering VMware vSphere Update Manager. For existing nodes that experience the issue, you must either remove and re-add the ESXi host to the vCenter Server system, as described in Remove a Host from vCenter Server and Add a Host to a Folder or a Data Center, or use the workarounds described in VMware knowledge base article 76633. In this case, vSphere DRS cannot use the standby uplinks and the VM fails to power on. Return to the Migration Assistant console. The vpxa service fails in case of a non-UTF8 string in the name property of numeric sensors, and ESXi hosts disconnect from the vCenter Server system. This issue is resolved in this release. This issue prevents other hostd logs and might fill up the log memory. Installation, Upgrade, and Migration Issues ESXi installation or upgrade fail due to memory corruption on HPE ProLiant - DL380/360 Gen 9 ServersThe issue occurs on HPE ProLiant - DL380/360 Gen 9 Servers that have a Smart Array P440ar storage controller. Workaround: Upgrade the VMFS3 datastore to VMFS5 to be able to migrate the VM to the ESXi 6.7 host. Workaround: None. PR 2600239: You might see loss of network connectivity as a result of a physical switch rebootThe parameter for network teaming failback delay on ESXi hosts, Net.TeamPolicyUpDelay, is currently set at 10 minutes, but in certain environments, a physical switch might take more than 10 minutes to be ready to receive or transmit data after a reboot. Instead select "Secure boot." If you select the wrong option it will cause VBS services to be silently disabled by Windows. As of 6.5, a VCHA cluster cannot be upgraded while preserving the VCHA configuration. ESXi670-202011101-SG Patch Category Security Patch Severity Critical Host Reboot Required Yes Virtual Machine Migration or Shutdown Required Yes Affected Hardware N/A Affected Software N/A VIBs Included VMware_bootbank_esx-update_6.7.0-3.128.17167699 VMware_bootbank_vsanhealth_6.7.0-3.128.17098397 VMware_bootbank_esx-base_6.7.0-3.128.17167699 VMware_bootbank_vsan_6.7.0-3.128.17098396 PRs Fixed 2633870, 2671479 CVE numbers CVE-2020-4004, CVE-2020-4005 Updates esx-base, esx-update, vsan, and vsanhealth VIBs to resolve the following issues: Update of the SQLite database The SQLite database is updated to version 3.33.0. Update to the libcurl library The ESXi userworld libcurl library is updated to libcurl-7.72.0. Update to the OpenSSH The Op

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