VMware ESXi650-202210001 Release Notes

Release Date: 06 October, 2022

What's in the Release Notes

The release notes cover the following topics:

- [Patch Build Details](#)
- [Resolved Issues](#)

Build Details

Download Filename:	ESXi650-202210001.zip
Build:	20502893
Download Size:	469.5 MB
md5sum:	bbb016b86a11df536ae8eac16a2c0403
sha256checksum:	7dda11bfdc8beb0627abfe46ca7f4b8c6debc71a1cb145a1aff5566837cf9d8e
Host Reboot Required:	Yes
Virtual Machine Migration or Shutdown Required:	Yes

Bulletins

Bulletin ID	Category	Severity
ESXi650-202210401-BG	Bugfix	Important
ESXi650-202210402-BG	Bugfix	Important
ESXi650-202210101-SG	Security	Important
ESXi650-202210102-SG	Security	Important

Rollup Bulletin

This rollup bulletin contains the latest VIBs with all the fixes since the initial release of ESXi 6.5.

Bulletin ID	Category	Severity
ESXi650-202210001	Bugfix	Important

IMPORTANT: For clusters using VMware vSAN, you must first upgrade the vCenter Server system. Upgrading only ESXi is not supported.

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. Application of the general release image profile applies to new bug fixes.

Image Profile Name
ESXi-6.5.0-20221004001-standard
ESXi-6.5.0-20221004001-no-tools
ESXi-6.5.0-20221001001s-standard
ESXi-6.5.0-20221001001s-no-tools

For more information about the individual bulletins, see the [Download Patches](#) page and the [Resolved Issues](#) section.

Patch Download and Installation

The typical way to apply patches to ESXi hosts is by using the VMware vSphere Update Manager. For details, see [About Installing and Administering VMware vSphere Update Manager](#).

ESXi hosts can be updated by manually downloading the patch ZIP file from [VMware Customer Connect](#). Navigate to **Products and Accounts** > **Product Patches**. From the **Select a Product** drop-down menu, select **ESXi (Embedded and Installable)** and from the **Select a Version** drop-down menu, select **6.5.0**. Install VIBs by using the `esxcli software vib update` command. Additionally, the system can be updated by using the image profile and the `esxcli software profile update` command. For more information, see [vSphere Command-Line Interface Concepts and Examples](#) and [vSphere Upgrade Guide](#).

Resolved Issues

The resolved issues are grouped as follows.

- [ESXi650-202210401-BG](#)
- [ESXi650-202210402-BG](#)

ESXi650-202210401-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	- VMware_bootbank_vsanhealth_6.5.0-3.195.20330361 - VMware_bootbank_vsan_6.5.0-3.195.20330358 - VMware_bootbank_esx-base_6.5.0-3.195.20502893 - VMware_bootbank_esx-tboot_6.5.0-3.195.20502893
PRs Fixed	2976624
Related CVE numbers	N/A

This patch updates `esx-base`, `esx-tboot`, `vsan,` and `vsanhealth` VIBs to resolve the following issues:

- **PR 2976624: When using VMFS snapshots, you might see repeated resets or slow Windows boot time**
  Due to the slow execution of `getLbaStatus` command in some environments, when you use VMFS snapshots, you might see repeated resets or slow Windows boot time. Depending on size of the disk, you might also see VMs to occasionally become unresponsive. The issue is primarily seen on VMs with Windows version 1809 and later that have VMFS snapshots.

  This issue is resolved in this release.

ESXi650-202210402-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_ntg3_4.1.8.0-4vmw.650.3.195.20502893
PRs Fixed	3004249
Related CVE numbers	N/A

This patch updates the `ntg3` VIB to resolve the following issue:

- **PR 3004249: You see link flapping on NICs that use the ntg3 driver of version 4.1.3 and later**
  When two NICs that use the ntg3 driver of versions 4.1.3 and later are connected directly, not to a physical switch port, link flapping might occur. The issue does not occur on ntg3 drivers of versions earlier than 4.1.3 or the tg3 driver. This issue is not related to the occasional Energy Efficient Ethernet (EEE) link flapping on such NICs. The fix for the EEE issue is to use an ntg3 driver of version 4.1.7 or later, or disable EEE on physical switch ports.

  This issue is resolved in this release. ESXi650-202210001 comes with `ntg3` driver version 4.1.8. However, after you upgrade the `ntg3` driver to version 4.1.8, you must set the new module parameter `noPhyStateSet` to `1`. The `noPhyStateSet` parameter defaults to `0` and is not required in most environments, except they face the issue.

ESXi650-202210101-SG

Patch Category	Security
Patch Severity	Important
Host Reboot Required	Yes
Virtual Machine Migration or Shutdown Required	Yes
Affected Hardware	N/A

Affected Software	N/A
VIBs Included	- VMware_bootbank_esx-tboot_6.5.0-3.191.20448942 - VMware_bootbank_esx-base_6.5.0-3.191.20448942 - VMware_bootbank_vsanhealth_6.5.0-3.191.20076036 - VMware_bootbank_vsan_6.5.0-3.191.20076035
PRs Fixed	2992266, 2992285, 2992295, 3001356, 3004414
Related CVE numbers	N/A

This patch updates `esx-base`, `esx-tboot`, `vsan,` and `vsanhealth` VIBs to resolve the following issues:

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  - **ESXi650-202210001 provides the following security updates:**
    cURL is updated to version 7.84.0.
    The OpenSSL library is updated to versions 1.0.2zf.
    The SQLite database is updated to version 3.39.0.
    The zlib library is updated to version 1.2.12.

  - This release resolves CVE-2022-31681. For more information on this vulnerability and its impact on VMware products, see [VMSA-2022-0025](#).

  - This release resolves CVE-2018-5733. VMware has evaluated the severity of this issue to be in the Important severity range with a maximum CVSSv3 base score of [7.5](#).

ESXi650-202210102-SG

Patch Category	Security
Patch Severity	Important
Host Reboot Required	Yes
Virtual Machine Migration or Shutdown Required	Yes
Affected Hardware	N/A
Affected Software	N/A
VIBs Included	VMware_locker_tools-light_6.5.0-3.191.20448942
PRs Fixed	3015672
Related CVE numbers	N/A

This patch updates the `tools-light` VIBs to resolve the following issue:

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  - **The following VMware Tools ISO images are bundled with ESXi 650-202210001:**
    - `windows.iso`: VMware Tools 12.0.6 supports Windows 7 SP1 or Windows Server 2008 R2 SP1 and later.
    - `linux.iso`: VMware Tools 10.3.24 ISO image for Linux OS with glibc 2.11 or later.

    The following VMware Tools ISO images are available for download:

    - VMware Tools 10.0.12:
      - `winPreVista.iso`: for Windows 2000, Windows XP, and Windows 2003.
      - `linuxPreGLibc25.iso`: for Linux OS with a glibc version less than 2.5.

    - VMware Tools 11.0.6:
      - `windows.iso`: for Windows Vista (SP2) and Windows Server 2008 Service Pack 2 (SP2).

    - `solaris.iso`: VMware Tools image 10.3.10 for Solaris.
    - `darwin.iso`: Supports Mac OS X versions 10.11 and later.

    Follow the procedures listed in the following documents to download VMware Tools for platforms not bundled with ESXi:

    - [VMware Tools 12.0.6 Release Notes](#)
    - [Earlier versions of VMware Tools](#)
    - [What Every vSphere Admin Must Know About VMware Tools](#)
    - [VMware Tools for hosts provisioned with Auto Deploy](#)
    - [Updating VMware Tools](#)

ESXi-6.5.0-20221004001-standard

Profile Name	ESXi-6.5.0-20221004001-standard
Build	For build information, see [the top of the page](#).
Vendor	VMware, Inc.

Release Date	October 06, 2022
Acceptance Level	PartnerSupported
Affected Hardware	N/A
Affected Software	N/A
Affected VIBs	• VMware_bootbank_vsanhealth_6.5.0-3.195.20330361 • VMware_bootbank_vsan_6.5.0-3.195.20330358 • VMware_bootbank_esx-base_6.5.0-3.195.20502893 • VMware_bootbank_esx-tboot_6.5.0-3.195.20502893 • VMW_bootbank_ntg3_4.1.8.0-4vmw.650.3.195.20502893
PRs Fixed	2976624, 3004249
Related CVE numbers	N/A

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  - When two NICs that use the ntg3 driver of versions 4.1.3 and later are connected directly, not to a physical switch port, link flapping might occur. The issue does not occur on ntg3 drivers of versions earlier than 4.1.3 or the tg3 driver. This issue is not related to the occasional Energy Efficient Ethernet (EEE) link flapping on such NICs. The fix for the EEE issue is to use an ntg3 driver of version 4.1.7 or later, or disable EEE on physical switch ports.

  - Due to the slow execution of `getLbaStatus` command in some environments, when you use VMFS snapshots, you might see repeated resets or slow Windows boot time. Depending on size of the disk, you might also see VMs to occasionally become unresponsive. The issue is primarily seen on VMs with Windows version 1809 and later that have VMFS snapshots.

ESXi-6.5.0-20221004001-no-tools

Profile Name	ESXi-6.5.0-20221004001-no-tools
Build	For build information, see the top of the page.
Vendor	VMware, Inc.
Release Date	October 06, 2022
Acceptance Level	PartnerSupported
Affected Hardware	N/A
Affected Software	N/A
Affected VIBs	• VMware_bootbank_vsanhealth_6.5.0-3.195.20330361 • VMware_bootbank_vsan_6.5.0-3.195.20330358 • VMware_bootbank_esx-base_6.5.0-3.195.20502893 • VMware_bootbank_esx-tboot_6.5.0-3.195.20502893 • VMW_bootbank_ntg3_4.1.8.0-4vmw.650.3.195.20502893
PRs Fixed	2976624, 3004249
Related CVE numbers	N/A

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  - When two NICs that use the ntg3 driver of versions 4.1.3 and later are connected directly, not to a physical switch port, link flapping might occur. The issue does not occur on ntg3 drivers of versions earlier than 4.1.3 or the tg3 driver. This issue is not related to the occasional Energy Efficient Ethernet (EEE) link flapping on such NICs. The fix for the EEE issue is to use an ntg3 driver of version 4.1.7 or later, or disable EEE on physical switch ports.

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ESXi-6.5.0-20221001001s-standard

Profile Name	ESXi-6.5.0-20221001001s-standard
Build	For build information, see the top of the page.
Vendor	VMware, Inc.
Release Date	October 06, 2022
Acceptance Level	PartnerSupported
Affected Hardware	N/A
Affected Software	N/A
Affected VIBs	• VMware_bootbank_esx-tboot_6.5.0-3.191.20448942 • VMware_bootbank_esx-base_6.5.0-3.191.20448942 • VMware_bootbank_vsanhealth_6.5.0-3.191.20076036 • VMware_bootbank_vsan_6.5.0-3.191.20076035 • VMware_locker_tools-light_6.5.0-3.191.20448942
PRs Fixed	2992266, 2992285, 2992295, 3001356, 3004414, 3015672

Related CVE numbers	N/A

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  - **ESXi650-202210001 provides the following security updates:**
    cURL is updated to version 7.84.0.
    The OpenSSL library is updated to versions 1.0.2zf.
    The SQLite database is updated to version 3.39.0.
    The zlib library is updated to version 1.2.12.

  - This release resolves CVE-2022-31681. For more information on this vulnerability and its impact on VMware products, see [VMSA-2022-0025](#).

  - This release resolves CVE-2018-5733. VMware has evaluated the severity of this issue to be in the Important severity range with a maximum CVSSv3 base score of [7.5](#).

  - **The following VMware Tools ISO images are bundled with ESXi 650-202210001:**
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    - `linux.iso`: VMware Tools 10.3.24 ISO image for Linux OS with glibc 2.11 or later.

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    - VMware Tools 11.0.6:
      - `windows.iso`: for Windows Vista (SP2) and Windows Server 2008 Service Pack 2 (SP2).

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    - [VMware Tools for hosts provisioned with Auto Deploy](#)
    - [Updating VMware Tools](#)

ESXi-6.5.0-20221001001s-no-tools

Profile Name	ESXi-6.5.0-20221001001s-no-tools
Build	For build information, see [the top of the page](#).
Vendor	VMware, Inc.
Release Date	October 06, 2022
Acceptance Level	PartnerSupported
Affected Hardware	N/A
Affected Software	N/A
Affected VIBs	- VMware_bootbank_esx-tboot_6.5.0-3.191.20448942 - VMware_bootbank_esx-base_6.5.0-3.191.20448942 - VMware_bootbank_vsanhealth_6.5.0-3.191.20076036 - VMware_bootbank_vsan_6.5.0-3.191.20076035 - VMware_locker_tools-light_6.5.0-3.191.20448942
PRs Fixed	2992266, 2992285, 2992295, 3001356, 3004414
Related CVE numbers	N/A

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  - **ESXi650-202210001 provides the following security updates:**
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  - This release resolves CVE-2022-31681. For more information on this vulnerability and its impact on VMware products, see [VMSA-2022-0025](#).

  - This release resolves CVE-2018-5733. VMware has evaluated the severity of this issue to be in the Important severity range with a maximum CVSSv3 base score of [7.5](#).

Known Issues from Previous Releases

To view a list of previous known issues, click [here](#).