

Vostro 3582 (with optical drive)

Setup and specifications guide



Notes, cautions, and warnings

 | **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 | **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 | **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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Set up your computer

- 1 Connect the power adapter and press the power button.

NOTE: To conserve battery power, the battery might enter power saving mode.



- 2 Finish Windows system setup.

Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:




- Connect to a network for Windows updates.

NOTE: If connecting to a secured wireless network, enter the password for the wireless network access when prompted.

- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

- 3 Locate and use Dell apps from the Windows Start menu—Recommended

Table 1. Locate Dell apps

Dell apps	Details
	<p>Dell Product Registration</p> <p>Register your computer with Dell.</p>
	<p>Dell Help & Support</p> <p>Access help and support for your computer.</p>
	<p>SupportAssist</p> <p>Proactively checks the health of your computer's hardware and software.</p>



 **NOTE:** Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.

Dell Update

Updates your computer with critical fixes and important device drivers as they become available.

Dell Digital Delivery

Download software applications including software that is purchased but not pre-installed on your computer.

- 4 Create recovery drive for Windows.

 **NOTE:** It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.

For more information, see [Create a USB recovery drive for Windows](#).

Create a USB recovery drive for Windows

Create a recovery drive to troubleshoot and fix problems that may occur with Windows. An empty USB flash drive with a minimum capacity of 16 GB is required to create the recovery drive.

Prerequisites

NOTE: This process may take up to an hour to complete.

NOTE: The following steps may vary depending on the version of Windows installed. Refer to the [Microsoft support site](#) for latest instructions.

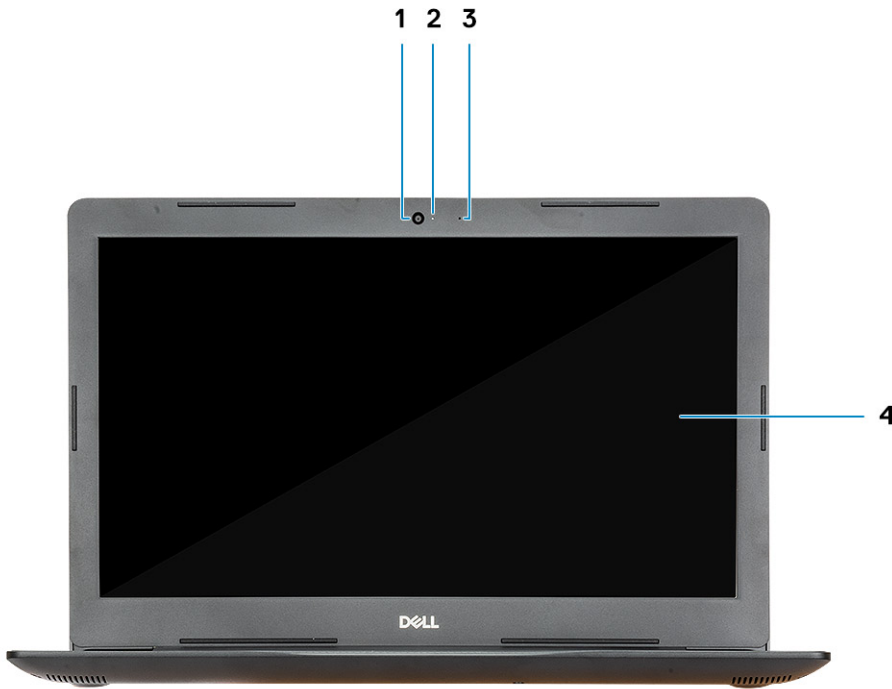
Steps

- 1 Connect the USB flash drive to your computer.
- 2 In Windows search, type `Recovery`.
- 3 In the search results, click **Create a recovery drive**.
The **User Account Control** window is displayed.
- 4 Click **Yes** to continue.
The **Recovery Drive** window is displayed.
- 5 Select **Back up system files to the recovery drive** and click **Next**.
- 6 Select the **USB flash drive** and click **Next**.
A message appears, indicating that all data in the USB flash drive will be deleted.
- 7 Click **Create**.
- 8 Click **Finish**.

For more information about reinstalling Windows using the USB recovery drive, see the *Troubleshooting* section of your product's *Service Manual* at www.dell.com/support/manuals.

Chassis overview

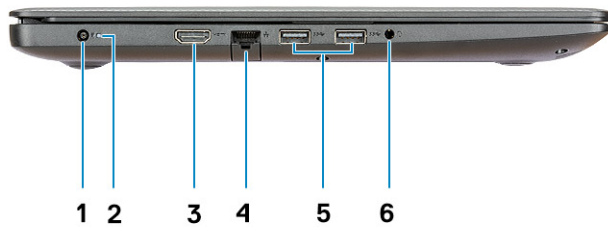
Display view



- 1 Camera
- 3 Microphone

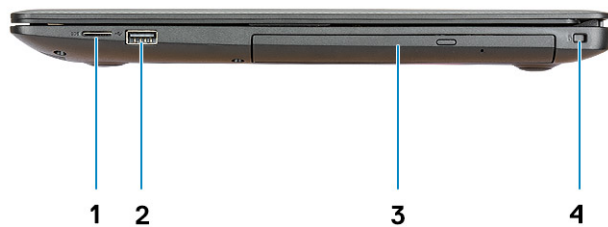
- 2 Camera-status light
- 4 Display

Left view



- | | | | |
|---|-------------------------|---|----------------------|
| 1 | Power adapter port | 2 | Battery status light |
| 3 | HDMI port | 4 | Network port |
| 5 | USB 3.1 Gen 1 ports (2) | 6 | Headset port |

Right view



- | | | | |
|---|----------------------|---|---------------------|
| 1 | Micro SD card reader | 2 | USB 2.0 port |
| 3 | Optical drive | 4 | Security-cable slot |

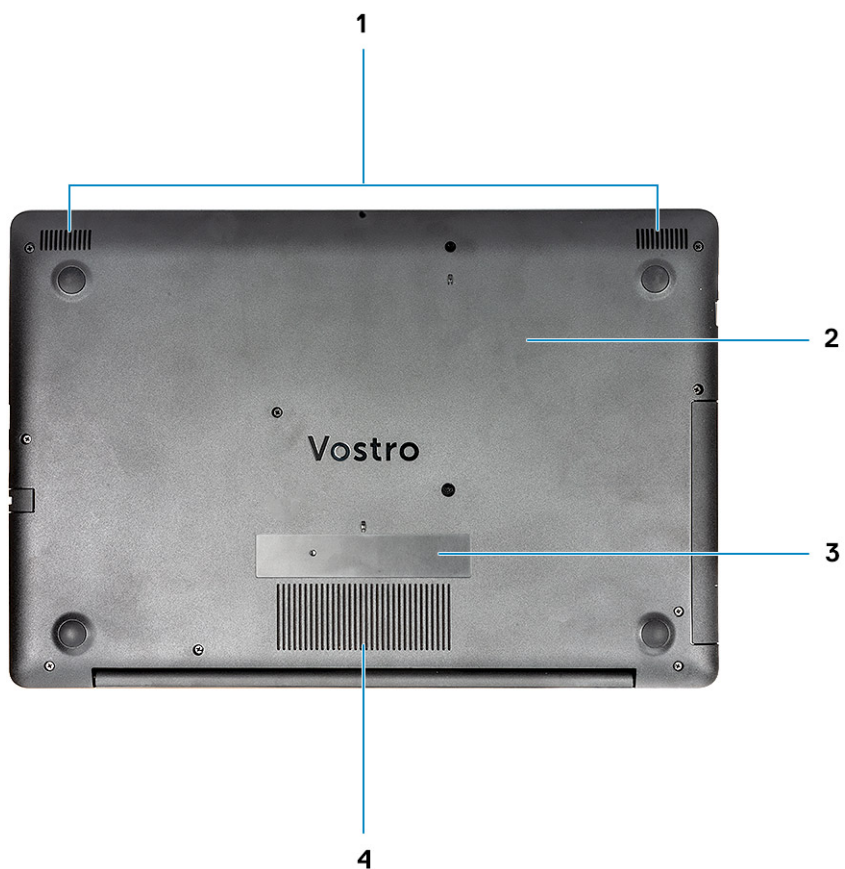
Palmrest view



- 1 Power button with optional fingerprint reader
- 3 Touchpad

- 2 Keyboard

Bottom view



- 1 Speakers
- 3 Service Tag label

- 2 Base cover
- 4 Air vent

Keyboard shortcuts

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys used for shortcuts remain the same across all language configurations.

Table 2. List of keyboard shortcuts

Keys	Description
Fn + Esc	Toggle Fn-key lock
Fn + F1	Mute audio
Fn + F2	Decrease volume
Fn + F3	Increase volume
Fn + F4	Play previous
Fn + F5	Play / Pause
Fn + F6	Play next
Fn + F8	Switch to external display
Fn + F9	Search
Fn + F11	Decrease brightness
Fn + F12	Increase brightness
Fn + PrtScr	Turn on/off wireless
Fn + Ctrl	Open application menu

Technical specifications

NOTE: Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information about the configuration of your computer, go to Help and Support in your Windows operating system and select the option to view information about your computer.

System information

Table 3. System information

Feature	Specifications
Chipset	Intel Chipset
DRAM bus width	64-bit
FLASH EPROM	16 MB
PCIe bus	100 Mhz

Processor

NOTE: Processor numbers are not a measure of performance. Processor availability is subject to change and may vary by region/country.

Table 4. Processor specifications

Type	UMA Graphics
Intel Pentium Silver N5000 (4M Smart Cache, up to 2.6 GHz)	Intel UHD Graphics 605
Intel Celeron Processor N4000 (2M Smart Cache, up to 2.6 GHz)	Intel UHD Graphics 600

Memory

Table 5. Memory specifications

Feature	Specifications
Minimum memory configuration	4 GB
Maximum memory configuration	8 GB
Number of slots	One SoDIMM
Memory options	<ul style="list-style-type: none"> • 4 GB - 1 x 4 GB • 8 GB - 1 x 8 GB

Feature	Specifications
Type	DDR4
Speed	2400 MHz

Storage

Table 6. Storage specifications

Type	Form factor	Interface	Capacity
SATA Solid-State Drive	M.2	M.2	Up to 256 GB
HDD	2.5 inch	SATA	Up to 2 TB
Optical drive	9.5 mm tray	SATA	

Storage combinations

Table 7. Storage combinations

Primary/Boot drive	Secondary drive
1 x M.2 SSD	1 x 2.5 inch Drive
1 x 2.5 inch HDD	None

Audio

Table 8. Audio specifications

Feature	Specifications
Controller	Realtek ALC3204 with Waves MaxxAudio Pro
Type	Two-channel high-definition audio
Speakers	Two (Directional speakers)
Interface	Intel HDA bus
Internal speaker amplifier	2 W (RMS) per channel

Media card-reader

Table 9. Media card-reader specifications

Feature	Specifications
Type	One microSD card slot
Supported cards	<ul style="list-style-type: none"> • SD • SDHC

- SDXC

Camera

Table 10. Camera specifications

Feature	Specifications
Resolution	<ul style="list-style-type: none"> · Still image: 0.92 megapixels (HD) · Video: 1280x720 (HD) at 30 fps
Diagonal viewing angle	78,6°
Number of cameras	One front camera
Type	HD fixed focus
Sensor type	CMOS sensor technology
Video Max resolution	1280x720 (HD) at 30 fps
Still image max resolution	0.92 megapixel (HD)

Wireless

Table 11. Wireless specifications

Feature	Specifications
Type	<ul style="list-style-type: none"> · Qualcomm QCA9565, DW1707 802.11bgn (1x1) WiFi + Bluetooth 4.0 · Qualcomm QCA9377, DW1810 802.11ac Dual Band (1x1) WiFi + Bluetooth 4.1 · Qualcomm QCA61x4A, DW1820 802.11ac Dual Band (2x2) WiFi + Bluetooth 4.1 · Intel 9560 - 802.11ac 2x2 WiFi & BT 5.0 · Intel 9462 - 802.11ac 1x1 WiFi & BT 5.0
Maximum transfer rate	867 Mbps
Frequency bands	2.4 GHz/5 GHz
Encryption	<ul style="list-style-type: none"> · 64-bit/128-bit WEP · AES-CCMP · TKIP

Ports and connectors

Table 12. Ports and connectors

Features	Specifications
Memory card reader	Micro SD 3.0 memory card reader
USB	<ul style="list-style-type: none"> · One USB 2.0 port

Features	Specifications
Security	<ul style="list-style-type: none"> Two USB 3.1 Gen 1 port wedge lock slot
Docking port	Dell USB 3.0 Dock (UNO)
Audio	<ul style="list-style-type: none"> Universal audio jack Noise reduction array microphone
Video	HDMI 1.4b
Network adapter	One RJ-45 connector

Video card

Table 13. Video card specifications

Controller	Type	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 600	UMA	Intel Celeron N4000 processor	Integrated	Shared system memory	HDMI 1.4b	4096×2304
Intel UHD Graphics 605	UMA	Intel Pentium Silver N5000 processor	Integrated	Shared system memory	HDMI 1.4b	4096×2304

Display

Table 14. Display specifications

Feature	Specifications
Type	<ul style="list-style-type: none"> 15.6-inch HD (WXGA 1366x768) non-touch display 15.6-inch FHD (1920 x 1080) non-touch display
Height (Active area)	<ul style="list-style-type: none"> 344.22 mm (13.55 in) 344.16 mm (13.54 in)
Width (Active area)	<ul style="list-style-type: none"> 193.62 mm (7.62 in) 193.59 mm (7.62 in)
Diagonal	396.24 mm (15.60 in)
Luminance/Brightness (typical)	400 nits max
Refresh rate	60 Hz
Horizontal viewing angle (min)	+/- 40 degrees
Vertical viewing angle (min)	+10/- 30 degrees

Keyboard

Table 15. Keyboard specifications

Feature	Specifications
Number of keys	<ul style="list-style-type: none">• 103 (U.S)• 102 (UK)• 104 (Brazil)• 105 (Japan)
Size	Full sized <ul style="list-style-type: none">• X= 19.00 mm key pitch• Y= 19.00 mm key pitch
Backlit keyboard	Optional
Layout	QWERTY/AZERTY/Kanji

Operating system

Table 16. Operating system

Feature	Specifications
Operating systems supported	<ul style="list-style-type: none">• Windows 10 Home (64 bit)• Windows 10 Pro (64 bit)• Ubutnu

Touchpad

Table 17. Touchpad specifications

Feature	Specifications
Resolution	1219 x 919
Dimensions	<ul style="list-style-type: none">• Width: 4.13 inch (105 mm)• Height: 3.14 inch (80 mm)
Multi-touch	Supports five fingers

Battery

Table 18. Battery specifications

Feature	Specifications	
Type	Prismatic/Polymer 3-cell 42 WHr	
Dimension	Width	175.37 mm (6.9 in)
	Depth	90.73 mm (3.57 in)
	Height	5.9 mm (0.24 in)
Weight (maximum)	0.2 kg (0.44 lb)	
Voltage	11.4 VDC	
Life span	300 discharge / charge cycles	
Charging time when the computer is off (approximate)	Standard charge	0°C to 60°C : 4 hours
	Express Charge	0°C to 35°C : 4 hours
		16°C to 45°C : 2 hours
		46°C to 60°C : 3 hours
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions	
Temperature range: Operating	0°C to 35°C (32°F to 95°F)	
Temperature range: Storage	-20°C to 65°C (-40°F to 149°F)	
Coin-cell battery	CR 2032	

Power adapter

Table 19. Power adapter specifications

Feature	Specifications
Type	<ul style="list-style-type: none">• 45 W (UMA)• 65 W (Discrete)
Input Voltage	100 VAC - 240 VAC
Input current (maximum)	<ul style="list-style-type: none">• 1.3 A for 45 W• 1.7 A for 65 W
Input frequency	50 Hz to 60 Hz
Output current	<ul style="list-style-type: none">• 2.31 A for 45 W• 3.34 A for 65 W

Feature	Specifications
Rated output voltage	19.5 VDC
Temperature range (Operating)	0°C to 40° C (32°F to 104°F)
Temperature range (Non-Operating)	40°C to 70°C (-40°F to 158°F)

Dimensions and weight

Table 20. Dimensions and weight

Feature	Specifications
Height	20.66 mm to 22.7 mm (0.813 inch to 0.106 inch)
Width	380 mm (14.96 inch)
Depth	258 mm (10.15 inch)
Weight	2 kg to 2.28 kg (4.4 lb to 5.02 lb)

Computer environment

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

Table 21. Computer environment

	Operating	Storage
Temperature range	0°C to 40°C (32°F to 104°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
	NOTE: Maximum dew point temperature = 26°C	NOTE: Maximum dew point temperature = 33°C
Vibration (maximum)	0.66 GRMS	1.30 GRMS
Shock (maximum)	140 G †	160 G ‡
Altitude (maximum)	0 m to 3048 m (0 ft to 10,000 ft)	0 m to 10,668 m (0 ft to 35,000 ft)

* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse when the hard drive is in use.

‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.

Security

Table 22. Security specifications

Feature	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on the system board
Discrete TPM	Integrated on the system board
Windows Hello Support	Optional
Cable cover	Optional
Chassis intrusion switch	Optional
Chassis lock slot and loop support	Optional

Security Software

Table 23. Security Software specifications

Feature	Specifications
Dell Endpoint Security Suite Enterprise	Optional
Dell Data Guardian	Optional
Dell Encryption (Enterprise or Personal)	Optional
Dell Threat Defense	Optional
RSA SecurID Access	Optional
RSA NetWitness Endpoint	Optional
MozyPro or MozyEnterprise	Optional
VMware Airwatch/WorkspaceONE	Optional
Absolute Data & Device Security	Optional

System setup

System setup enables you to manage your notebook hardware and specify BIOS level options. From the System setup, you can:

- Change the NVRAM settings after you add or remove hardware
- View the system hardware configuration
- Enable or disable integrated devices
- Set performance and power management thresholds
- Manage your computer security

Topics:

- [Boot menu](#)
- [Navigation keys](#)
- [System setup options](#)
- [System and setup password](#)

Boot menu

Press <F12> when the Dell logo appears to initiate a one-time boot menu with a list of the valid boot devices for the system. Diagnostics and BIOS Setup options are also included in this menu. The devices listed on the boot menu depend on the bootable devices in the system. This menu is useful when you are attempting to boot to a particular device or to bring up the diagnostics for the system. Using the boot menu does not make any changes to the boot order stored in the BIOS.


The options are:

- UEFI Boot:
 - Windows Boot Manager
- Other Options:
 - BIOS Setup
 - BIOS Flash Update
 - Diagnostics
 - Change Boot Mode Settings

Navigation keys

NOTE: For most of the System Setup options, changes that you make are recorded but do not take effect until you restart the system.

Keys	Navigation
Up arrow	Moves to the previous field.
Down arrow	Moves to the next field.
Enter	Selects a value in the selected field (if applicable) or follow the link in the field.
Spacebar	Expands or collapses a drop-down list, if applicable.

Keys	Navigation
Tab	Moves to the next focus area.  NOTE: For the standard graphics browser only.
Esc	Moves to the previous page until you view the main screen. Pressing Esc in the main screen displays a message that prompts you to save any unsaved changes and restarts the system.

System setup options

 **NOTE: Depending on the laptop and its installed devices, the items listed in this section may or may not appear.**

Main options

Table 24. Main

Option	Description
System Time	Displays system time
System Date	Displays system time
BIOS Version	Displays BIOS version
Product Name	Displays the model number
Service Tag	Displays the service tag
Asset Tag	Displays the asset tag
CPU Type	Displays the processor type
CPU Speed	Displays the CPU speed
CPU ID	Displays the CPU ID
CPU Cache	Displays CPU Cache- L1 Cache and L2 Cache
First HDD	Displays the primary HDD installed in the system
SATA ODD	Displays the ODD installed in the system
M.2 PCIe SSD	Displays the SSD installed in the system
AC Adapter Type	Displays the adapter type
System Memory	Displays the available system memory
Memory Speed	Displays the memory speed
Keyboard Type	Displays the supported keyboard type

Advanced options

Table 25. Advanced

Option	Description
Intel SpeedStep	Allows you to enable or disable the Intel SpeedStep mode of processor. This option is enabled by default.
Virtualization	This field specifies whether a virtual Machine Monitor (VMM) can utilize the conditional hardware capabilities provided by Intel Virtualization Technology. This option is enabled by default.
Integrated NIC	Allows you to configure the on-board LAN controller. This option is enabled by default.
USB Emulation	Allows you to configure the USB emulation. This option is enabled by default.
USB Wake Support	Allows you to enable USB devices to wake the system from Standby. This option is disabled by default.
SATA Operation	Allows you to configure the operating mode of the integrated hard drive controller. AHCI is set as default.
Adapter Warnings	Allows you to enable or disable the system setup (BIOS) warning messages when you use certain power adapters. This option is enabled by default.
Function Key Behavior	Allows you to set the function key behavior. The option is set to Multimedia Key by default.
Battery Health	Displays the status of the battery
Camera	Allows you to enable or disable the camera. This option is enabled by default.
External USB Ports	Allows you to enable or disable the USB ports. This option is enabled by default.
Microphone	Allows you to enable or disable the microphone. This option is enabled by default.
Internal Bluetooth	Allows you to enable or disable the bluetooth. This option is enabled by default.
Internal WLAN	Allows you to enable or disable the WLAN. This option is enabled by default.
Media Card Reader	Allows you to enable or disable the media card reader. This option is enabled by default.
Optical Device	Allows you to enable or disable the optical device. This option is enabled by default.
Fingerprint reader	Allows you to enable or disable the finger print reader. This option is enabled by default.
Boot Disable	This option is disabled by default.
Maintenance	<ul style="list-style-type: none">• Data Wipe on next boot — This field allows users to erase the data securely from all internal storage devices. Option 'Wipe on Next boot' is disabled by default.• BIOS recovery from Hard Drive — This field allows you to recover from certain corrupted BIOS conditions from a recover file on the user primary hard drive. This option is enabled by default.• BIOS Auto-Recovery — This field allows you to recover from certain corrupted BIOS conditions from a recover file on the user primary hard drive or an external USB key. This option is disabled by default.
Support Assist System Resolution	<ul style="list-style-type: none">• Auto OS Recovery Threshold — Allows you to control the automatic boot flow for SupportAssist System. Options are: Off, 1, 2 (default), and 3.• SupportAssist OS Recovery — Allows you to recover the SupportAssist OS Recovery. This option is enabled by default.
Battery Charge Configuration	Allows you to select the charging mode for the battery. The options are: <ul style="list-style-type: none">• Adaptive—enabled by default• Standard—Fully charges your battery at a standard rate

Option	Description
	<ul style="list-style-type: none"> Primarily AC use Custom
Advanced Battery Charge Mode	This option enables you to maximize the battery health. By enabling this option, your system uses the standard charging algorithm and other techniques, during the non work hours to improve the battery health. This option is disabled by default.

Security

Table 26. Security

Option	Description
Asset Tag	Allows you to set, change, or delete the asset tag.
Admin Password	Allows you to set, change, or delete the admin password.
System Password	Allows you to set, change, or delete the system password.
HDD Password	Allows you to set, change or delete the internal HDD password.
Password Change	This option lets you determine whether changes to the System and Hard Disk passwords are permitted when an administrator password is set. The Password Change is denied by default.
Password Bypass	<p>This option lets you bypass the System (Boot) Password and the internal HDD password prompts during a system restart.</p> <ul style="list-style-type: none"> Disabled — Always prompt for the system and internal HDD password when they are set. This option is enabled by default. Reboot Bypass — Bypass the password prompts on Restarts (warm boots). <p>i NOTE: The system will always prompt for the system and internal HDD passwords when powered on from the off state (a cold boot). Also, the system will always prompt for passwords on any module bay HDDs that may be present.</p>
Computrace(R)	<p>This field lets you Activate or Disable the BIOS module interface of the optional Computrace Service from Absolute Software. Enables or disables the optional Computrace service designed for asset management.</p> <ul style="list-style-type: none"> Deactivate - This option is selected by default. Disable Activate
Firmware TPM	This option is enabled by default.
PPI Bypass for Clear Command	This option is disabled by default.
UEFI Capsule Firmware Updates	This option controls whether this system allows BIOS updates via UEFI capsule update packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS)
SMM Security Mitigation	Allows you to enable or disable additional UEFI SMM Security Mitigation protections. This option is not set by default.

Secure boot

Table 27. Secure Boot

Option	Description
Boot List Option	UEFI (default)
Secure Boot Mode	The option is disabled by default
Legacy Option ROMs	The option is disabled by default
Attempt Legacy Boot	The option is disabled by default

Exit

Table 28. Exit

Option	Description
Save Changes and Reset	Allows you to save the BIOS setting changes and reset.
Discard Changes and Reset	Allows you to discard the BIOS setting changes and reset.
Restore Defaults	Allows you to restore the factory BIOS default options.
Discard Changes	Allows you to discard the BIOS setting changes.
Save Changes	Allows you to save the BIOS setting changes.

System and setup password

Table 29. System and setup password

Password type	Description
System password	Password that you must enter to log on to your system.
Setup password	Password that you must enter to access and make changes to the BIOS settings of your computer.

You can create a system password and a setup password to secure your computer.

⚠ CAUTION: The password features provide a basic level of security for the data on your computer.

⚠ CAUTION: Anyone can access the data stored on your computer if it is not locked and left unattended.

ℹ NOTE: System and setup password feature is disabled.

Assigning a system setup password

Prerequisite

You can assign a new **System or Admin Password** only when the status is in **Not Set**.

About this task

To enter the system setup, press F2 immediately after a power-on or re-boot.

Steps

- 1 In the **System BIOS** or **System Setup** screen, select **Security** and press Enter.
The **Security** screen is displayed.
- 2 Select **System/Admin Password** and create a password in the **Enter the new password** field.
Use the following guidelines to assign the system password:
 - A password can have up to 32 characters.
 - The password can contain the numbers 0 through 9.
 - Only lower case letters are valid, upper case letters are not allowed.
 - Only the following special characters are allowed: space, ("), (+), (,), (-), (.), (/), (:), ([), (\), (]), (`).
- 3 Type the system password that you entered earlier in the **Confirm new password** field and click **OK**.
- 4 Press Esc and a message prompts you to save the changes.
- 5 Press Y to save the changes.
The computer reboots.

Deleting or changing an existing system setup password

Prerequisite

Ensure that the **Password Status** is Unlocked (in the System Setup) before attempting to delete or change the existing System and/or Setup password. You cannot delete or change an existing System or Setup password, if the **Password Status** is Locked.

About this task

To enter the System Setup, press F2 immediately after a power-on or reboot.

Steps

- 1 In the **System BIOS** or **System Setup** screen, select **System Security** and press Enter.
The **System Security** screen is displayed.
- 2 In the **System Security** screen, verify that **Password Status** is **Unlocked**.
- 3 Select **System Password**, alter or delete the existing system password and press Enter or Tab.
- 4 Select **Setup Password**, alter or delete the existing setup password and press Enter or Tab.

NOTE: If you change the System and/or Setup password, re-enter the new password when prompted. If you delete the System and/or Setup password, confirm the deletion when prompted.

- 5 Press Esc and a message prompts you to save the changes.
- 6 Press Y to save the changes and exit from System Setup.
The computer reboot.

This chapter details the supported operating systems along with instructions on how to install the drivers.

Downloading drivers

- 1 Turn on the notebook.
- 2 Go to **Dell.com/support**.
- 3 Click **Product Support**, enter the Service Tag of your notebook, and then click **Submit**.

NOTE: If you do not have the Service Tag, use the auto detect feature or manually browse for your notebook model.

- 4 Click **Drivers and Downloads**.
- 5 Select the operating system installed on your notebook.
- 6 Scroll down the page and select the driver to install.
- 7 Click **Download File** to download the driver for your notebook.
- 8 After the download is complete, navigate to the folder where you saved the driver file.
- 9 Double-click the driver file icon and follow the instructions on the screen.

Getting help

Contacting Dell

Prerequisite

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

About this task

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

Steps

- 1 Go to **Dell.com/support**.
- 2 Select your support category.
- 3 Verify your country or region in the **Choose a Country/Region** drop-down list at the bottom of the page.
- 4 Select the appropriate service or support link based on your need.