

MODULE 2.1

SERVER OPERATING SYSTEM

INSTALLATION AND

CONFIGURATION

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Instructor I

What is Server?

- A server is a **computer program or device that provides a service to another computer program** and its user, also known as the client.
- A **server operating system** (server OS) runs on a server in a client-server architecture and provides multiple services to client machines within the network. It forms the software backbone to run various programs and applications.

How To Install Windows Server 2019 Step by Step

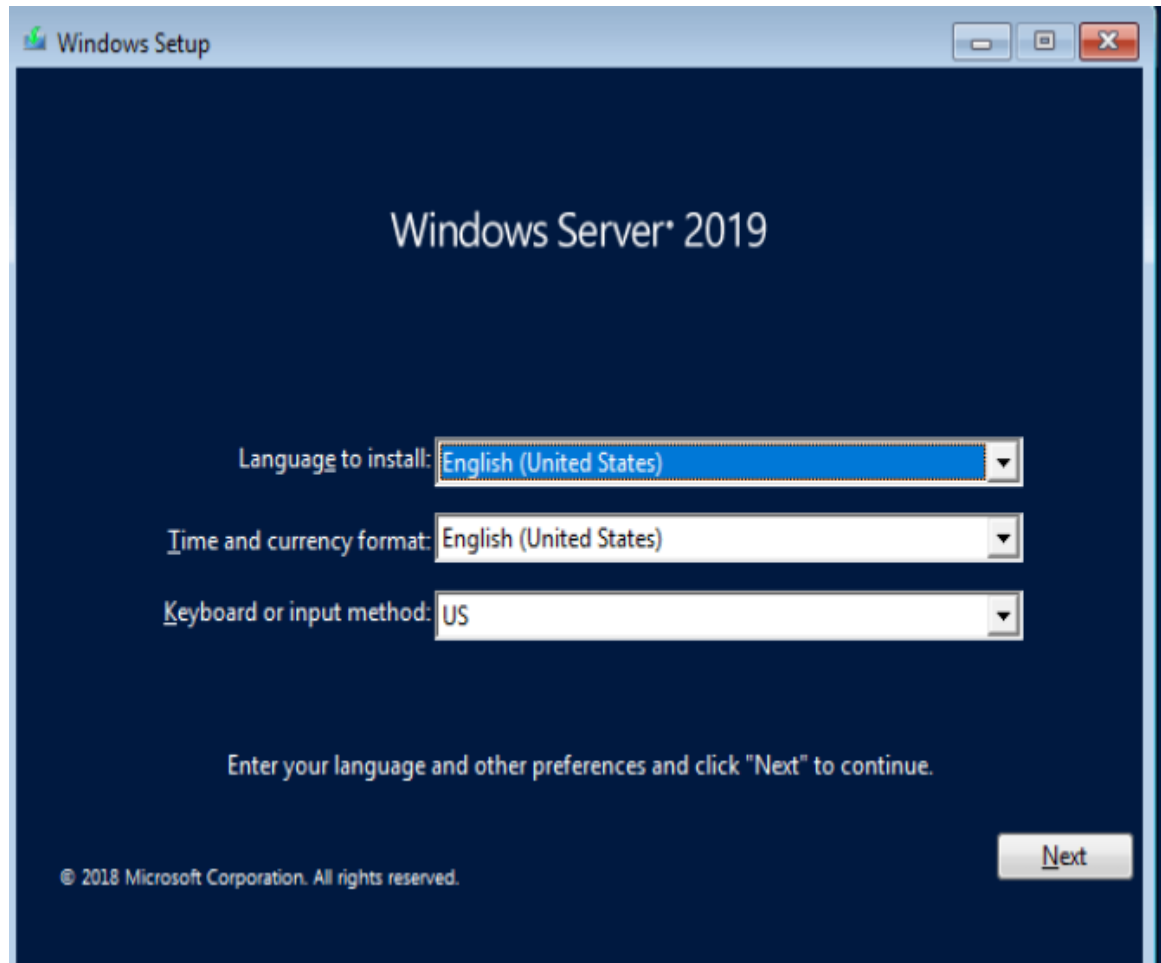
This guide will walk you through the steps of installing Windows Server 2019 on a physical server, Virtual Environment or in the Cloud. For a physical server installation, you'll need to pull the windows server ISO image and burn to a USB device.

How To Install Windows Server 2019 Step by Step

- After creating a bootable USB or DVD medium, insert it and start your Computer. VirtualBox, KVM and VMware users only need to attach the ISO file during VM creation and follow the installation steps shown.

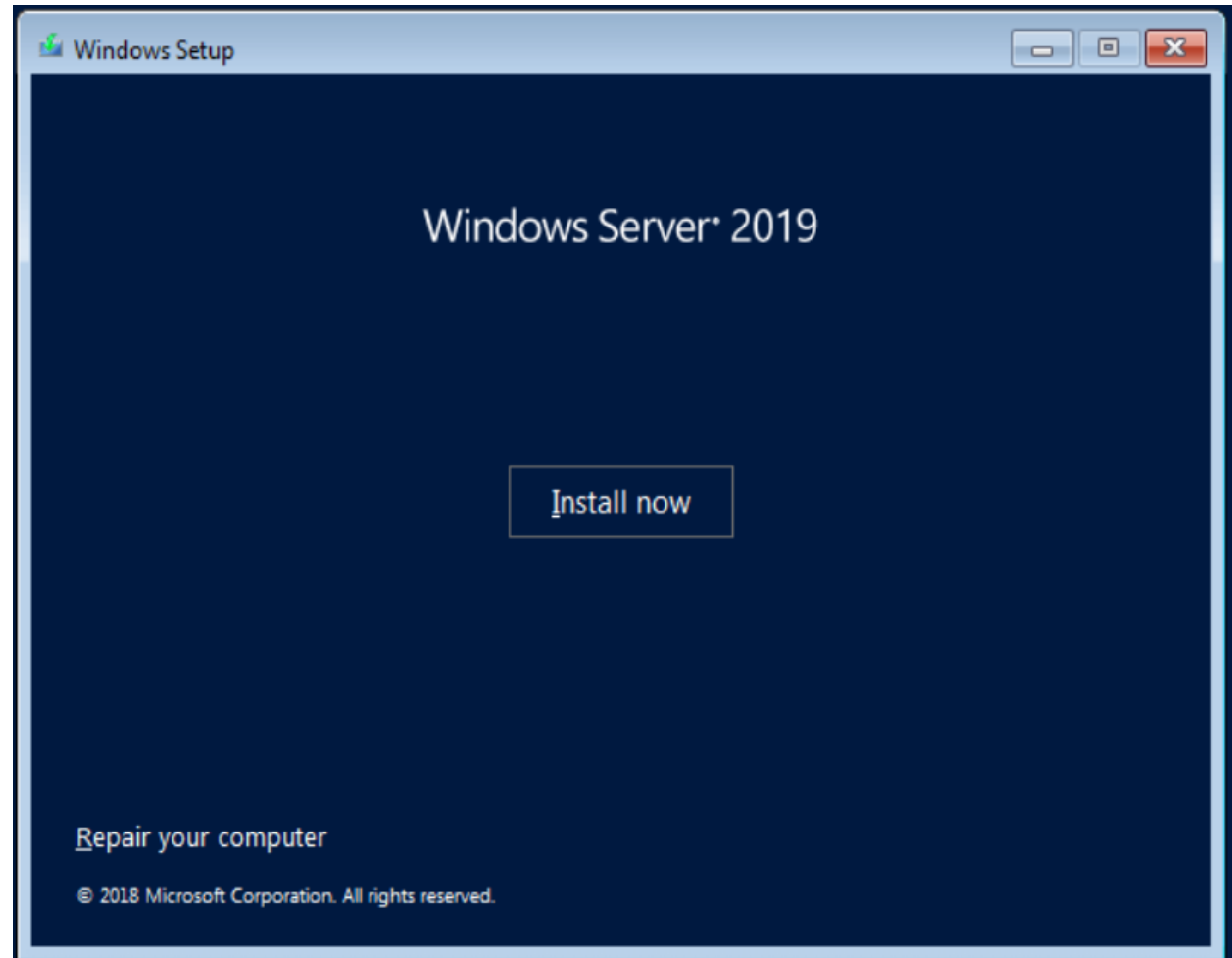
How To Install Windows Server 2019 Step by Step

- 1. On the first screen, select installation language, Time and keyboard layout the click "Next".



How To Install Windows Server 2019 Step by Step

- 2. Start the installation by clicking on "Install Now".

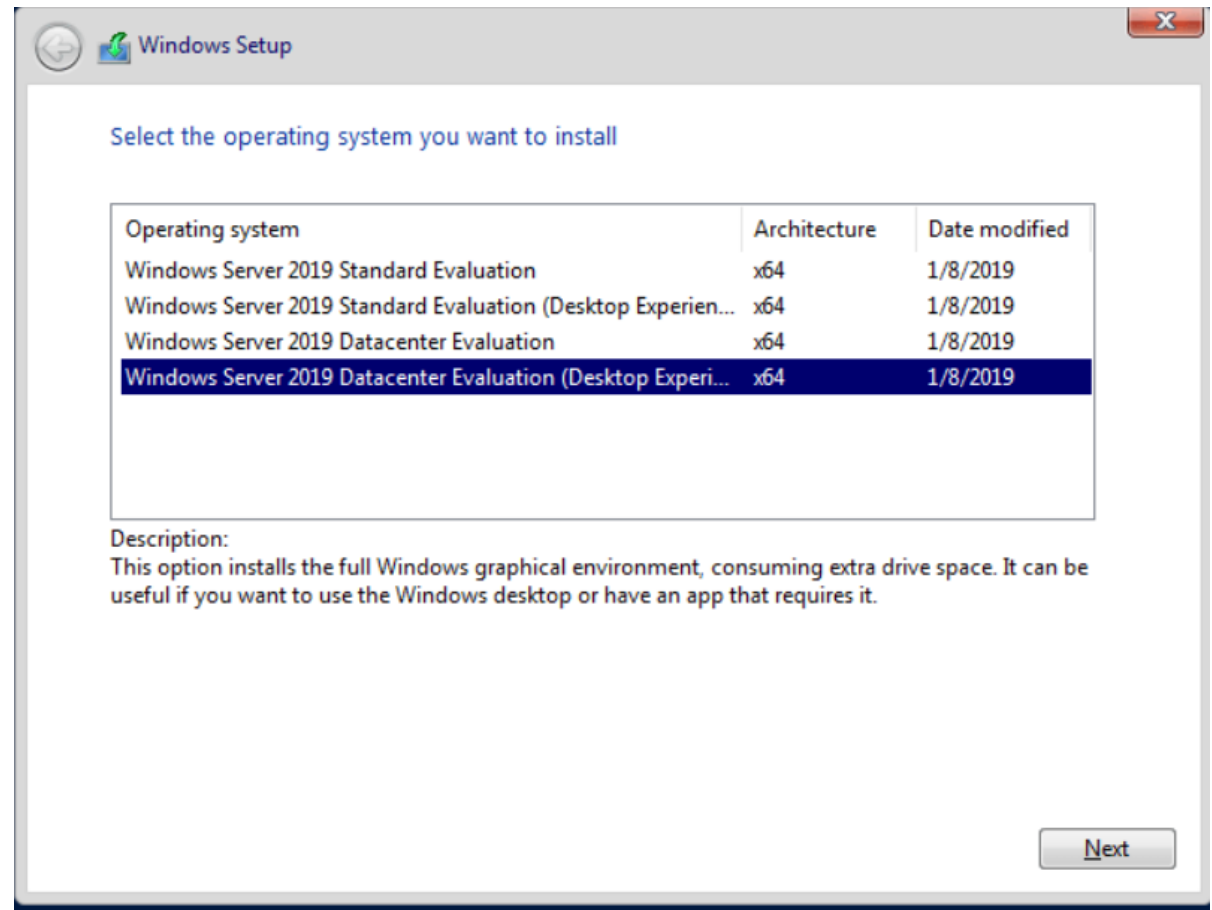


The setup should start in a short while.

Setup is starting

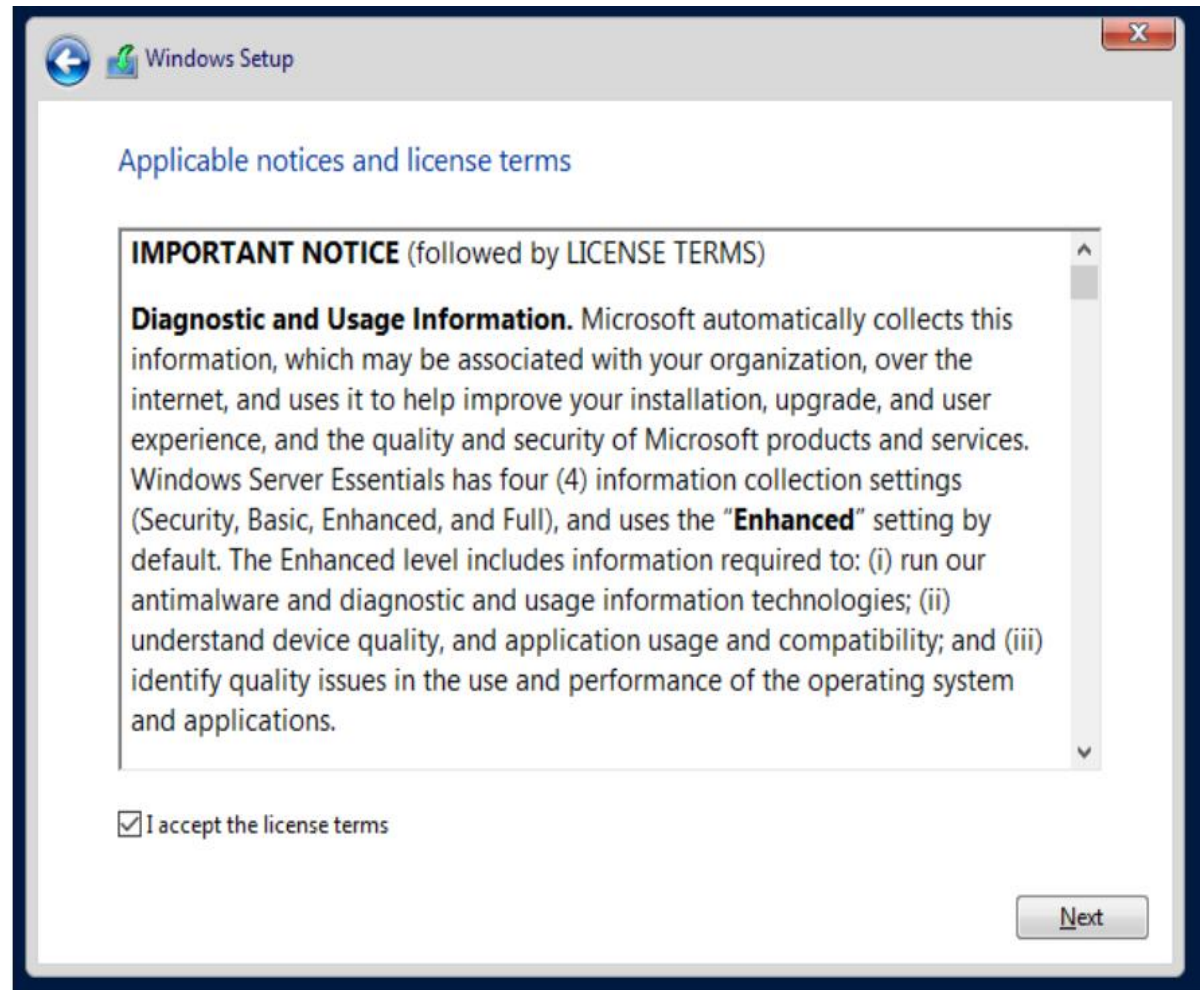
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- 3. Select the Windows Server 2019 edition to install and click Next.



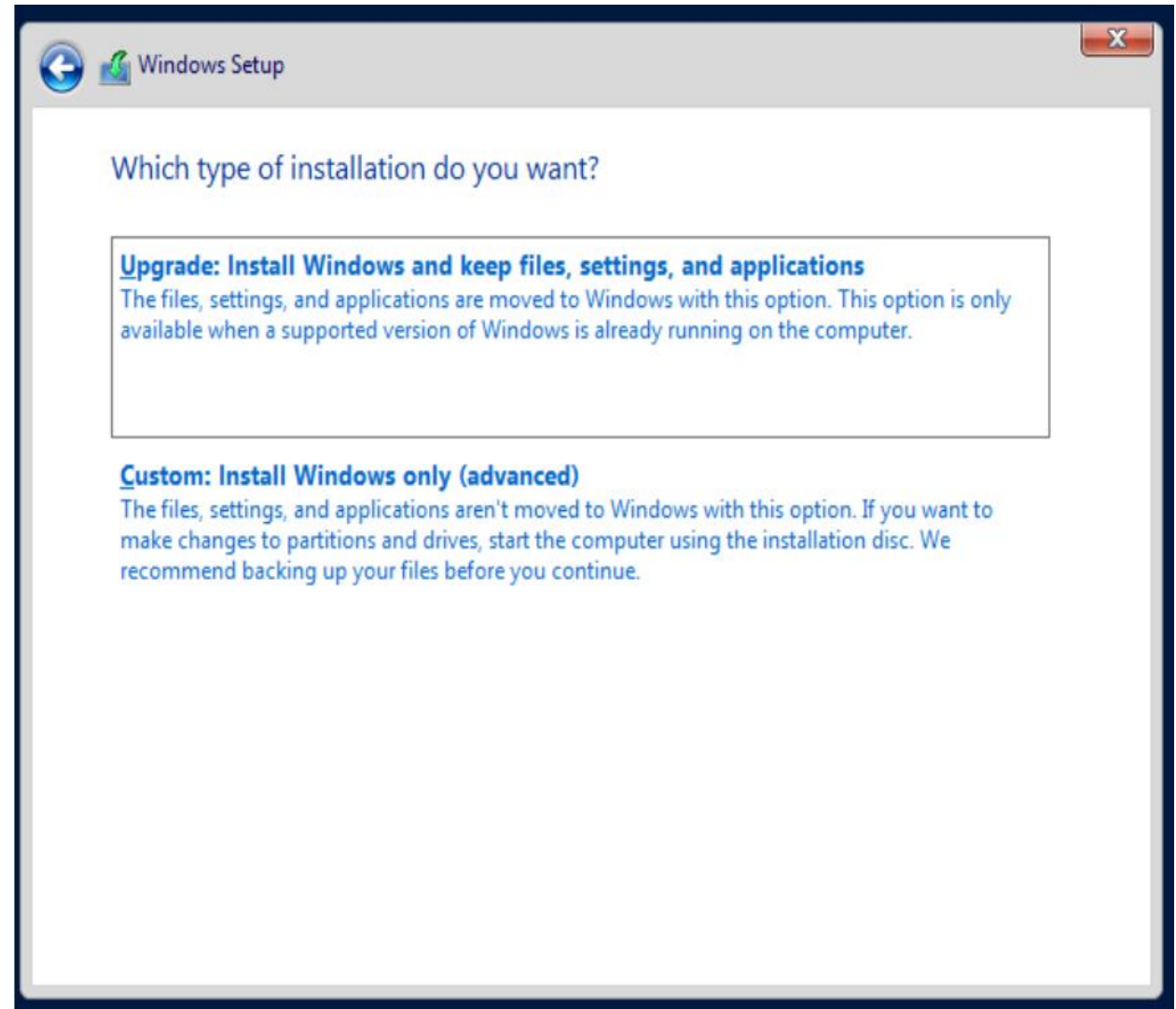
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- 4. Read the License terms and agree to them to start the installation by checking the box “I accept the license terms”.



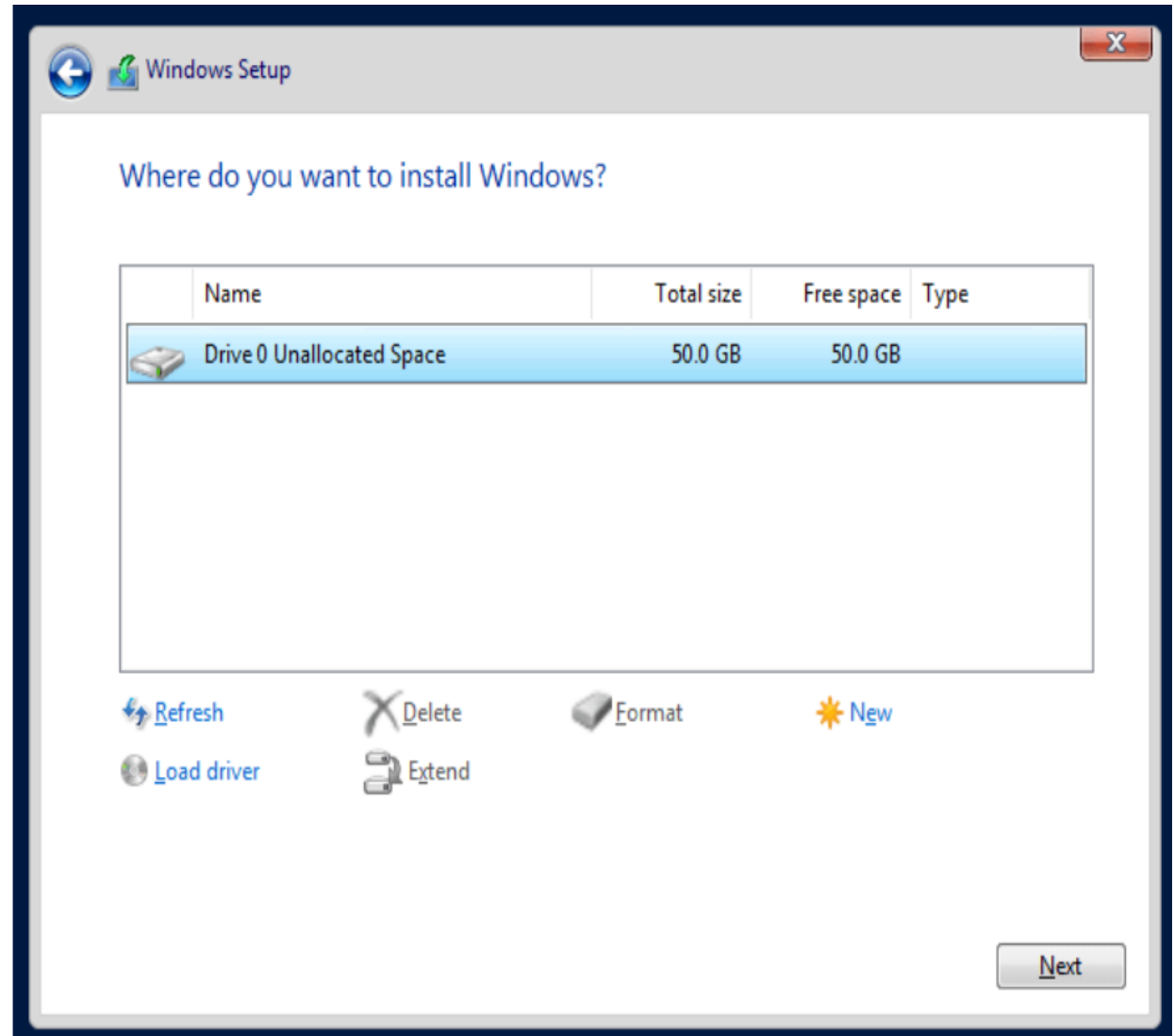
How To Install Windows Server 2019 Step by Step

- 5. if this is the first installation of Windows Server 2019 on the server, select (Custom: Install Windows only).



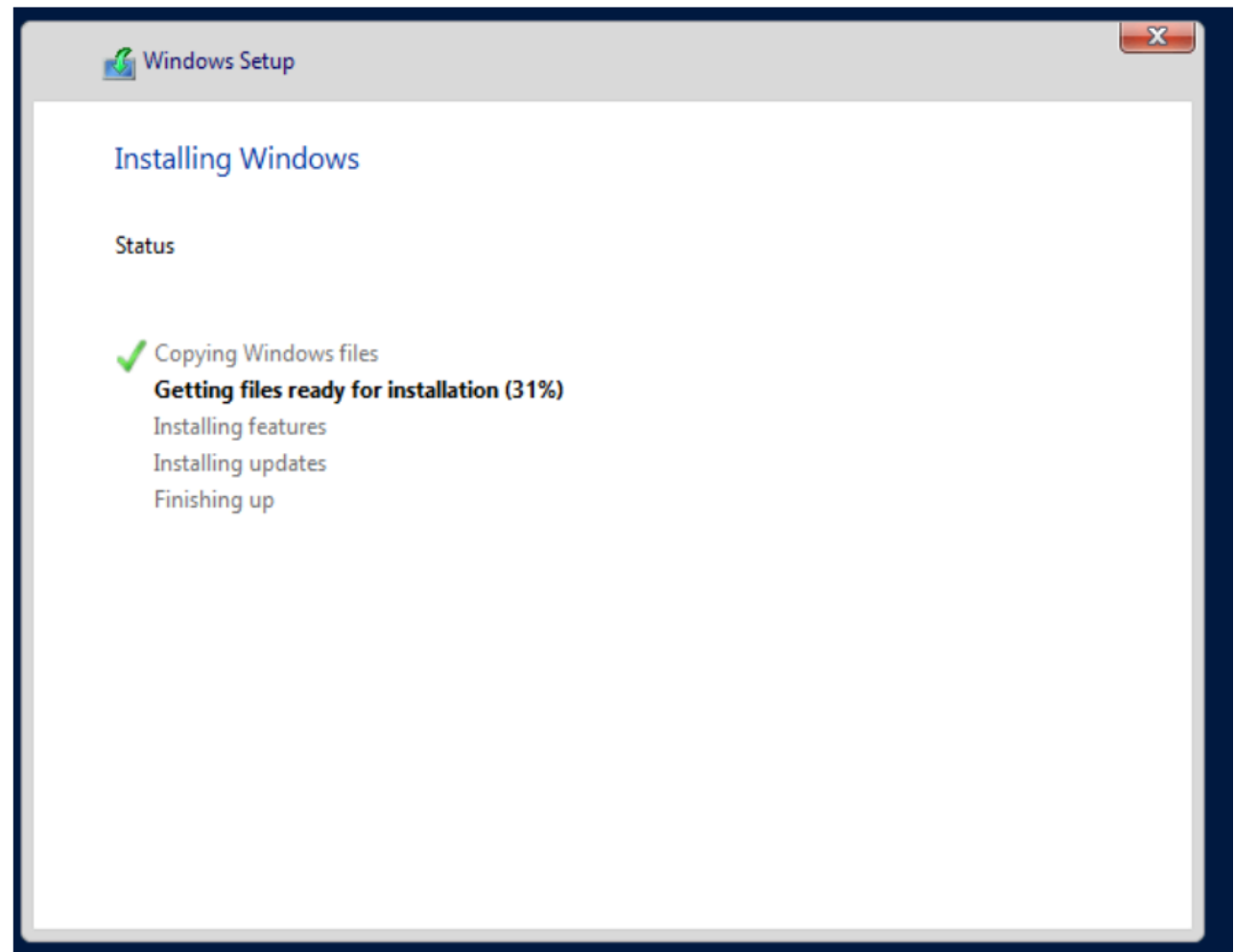
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- 6. Select a partition to install Windows Server, you can optionally create new one from available or use total available size by clicking "Next".



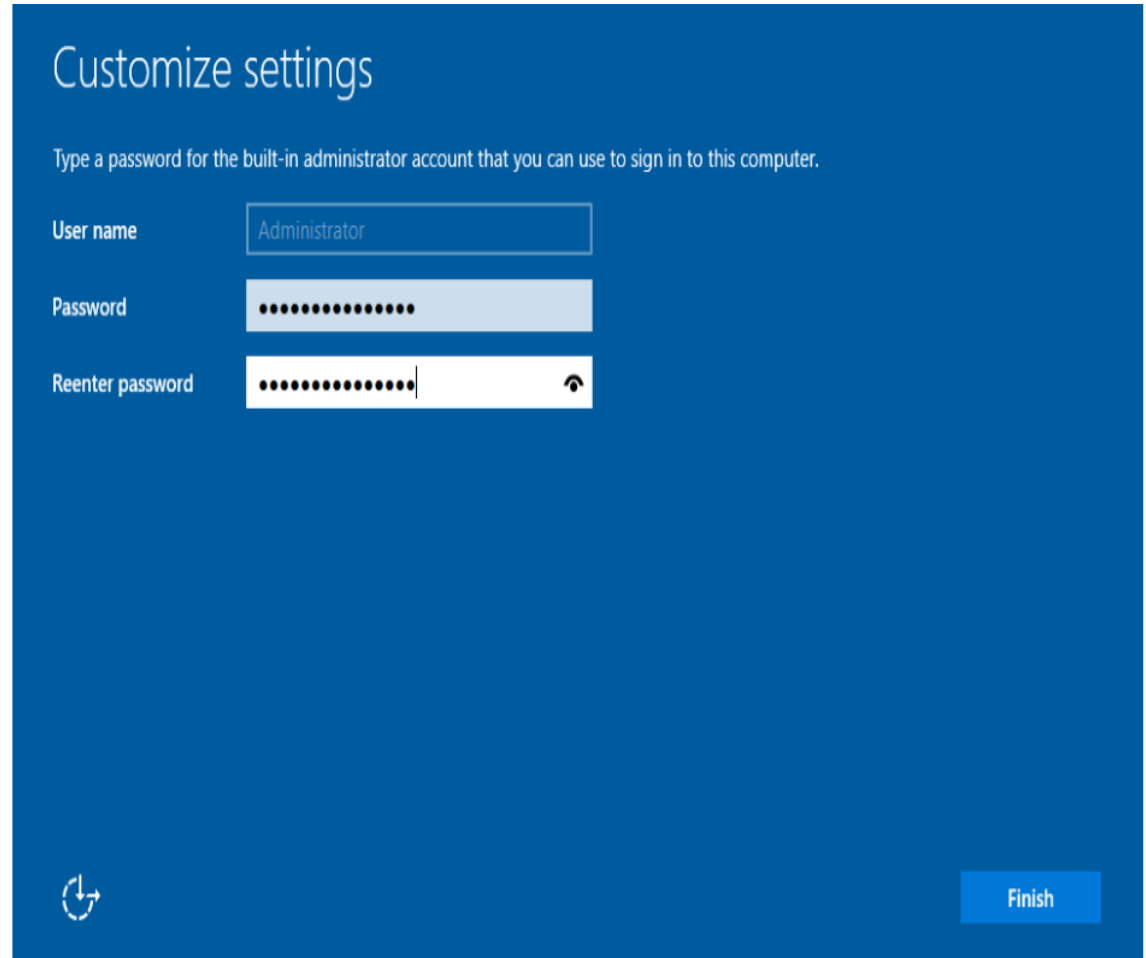
How To Install Windows Server 2019 Step by Step

- 7. The installation should start, wait for it to finish.



How To Install Windows Server 2019 Step by Step

- 8. The system should automatically reboot after the installation. Set Administrator password when prompted on the next screen.



The screenshot shows the 'Customize settings' window in Windows Server 2019. The background is a solid blue color. At the top, the title 'Customize settings' is displayed in white. Below the title, a instruction reads: 'Type a password for the built-in administrator account that you can use to sign in to this computer.' There are three input fields: 'User name' with the text 'Administrator', 'Password' with a series of black dots, and 'Reenter password' with a series of black dots and a small circular arrow icon on the right. At the bottom left, there is a circular arrow icon. At the bottom right, there is a blue button with the text 'Finish' in white.

Customize settings

Type a password for the built-in administrator account that you can use to sign in to this computer.

User name Administrator

Password

Reenter password ↺

↻ Finish

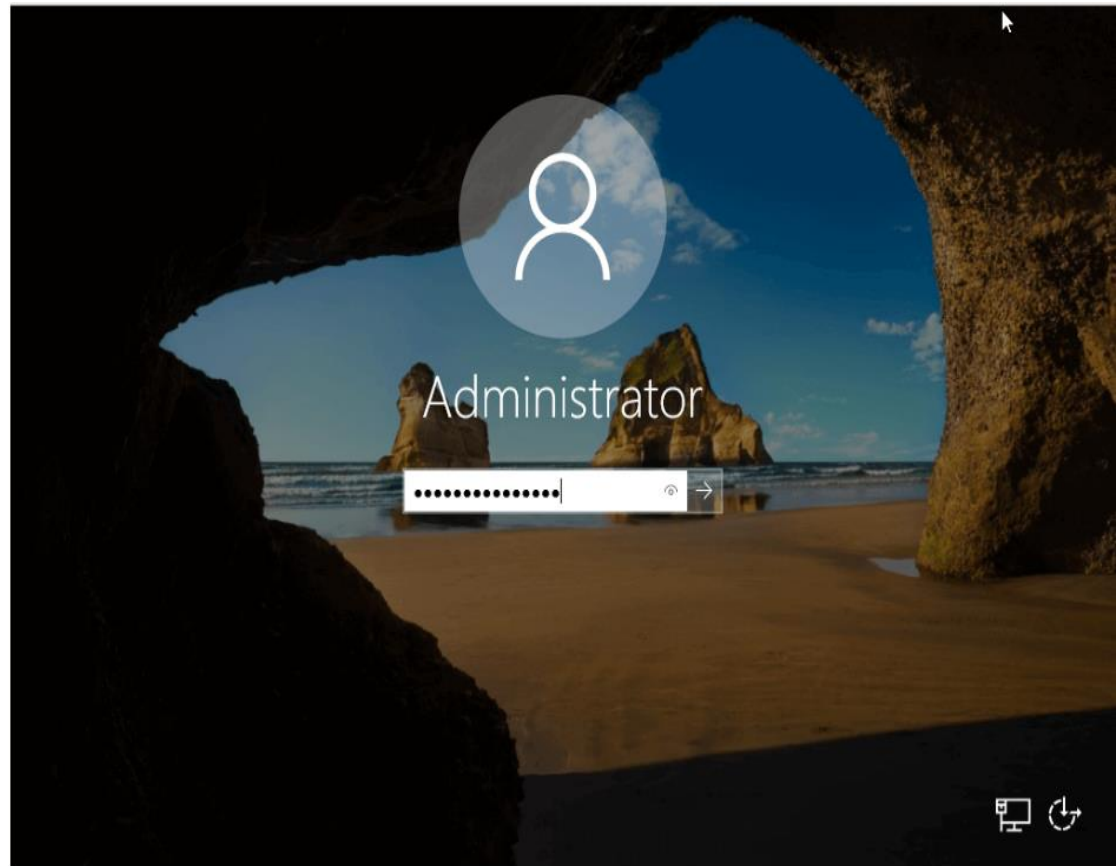
How To Install Windows Server 2019 Step by Step

- 9. Click Finish to complete the installation. To login with the Administrator user, use Ctrl + Alt + Del key combination.



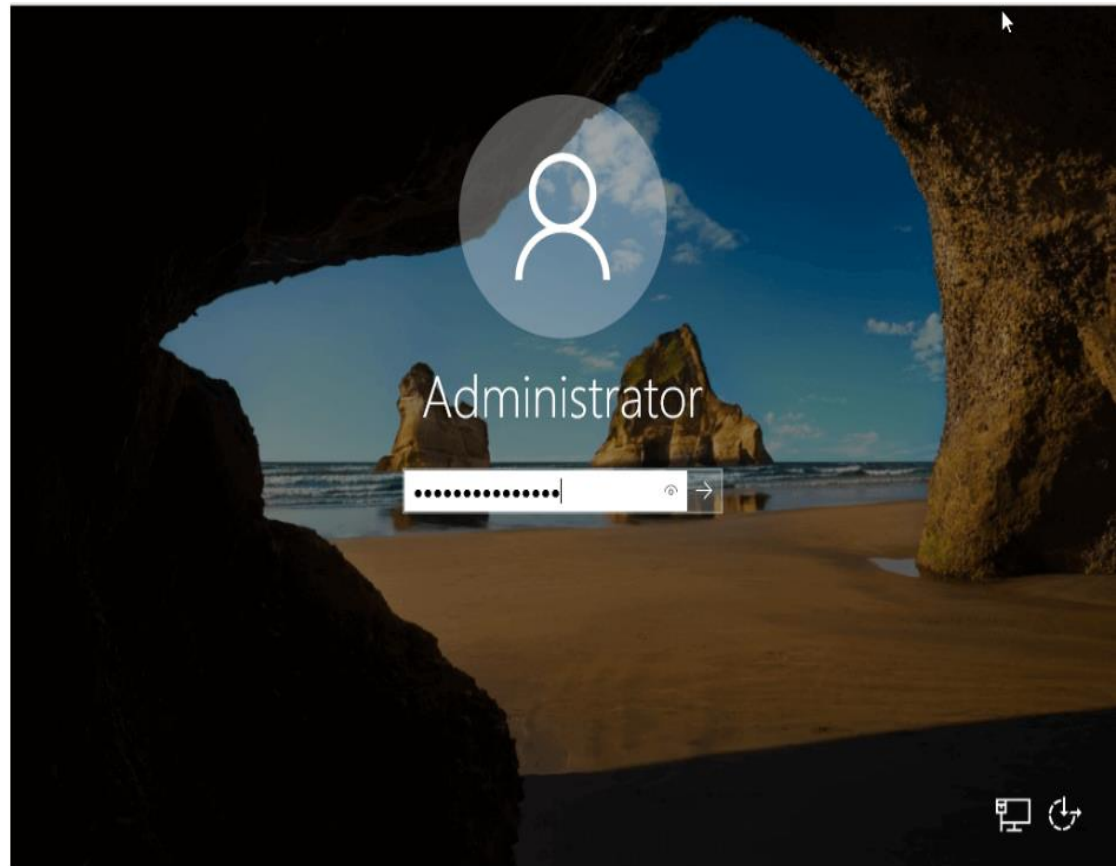
How To Install Windows Server 2019 Step by Step

- 10. Provide your Administrator Password and hit Enter.



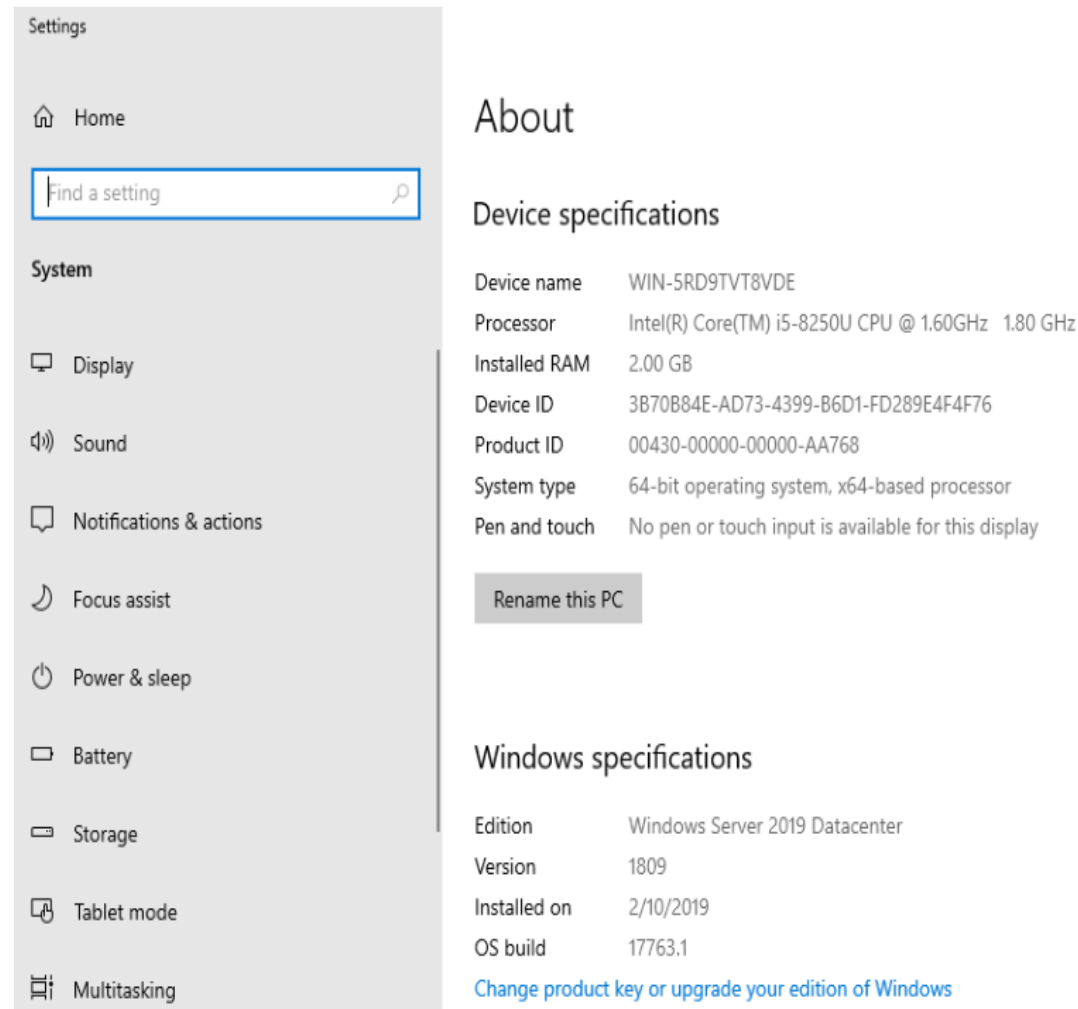
How To Install Windows Server 2019 Step by Step

- 10. Provide your Administrator Password and hit Enter.



How To Install Windows Server 2019 Step by Step

- You can get Windows Server details on the settings section.



The screenshot displays the Windows Settings application. On the left, the 'Settings' sidebar is visible with a search bar labeled 'Find a setting'. Below the search bar, the 'System' category is selected, showing a list of settings including Display, Sound, Notifications & actions, Focus assist, Power & sleep, Battery, Storage, Tablet mode, and Multitasking. The main pane on the right is titled 'About' and contains two sections: 'Device specifications' and 'Windows specifications'. The 'Device specifications' section lists hardware details such as Device name, Processor, Installed RAM, Device ID, Product ID, System type, and Pen and touch. The 'Windows specifications' section lists software details such as Edition, Version, Installed on, and OS build. A 'Rename this PC' button is located below the device specifications. At the bottom of the 'About' section, there is a link to 'Change product key or upgrade your edition of Windows'.

Settings

Home

Find a setting

System

- Display
- Sound
- Notifications & actions
- Focus assist
- Power & sleep
- Battery
- Storage
- Tablet mode
- Multitasking

About

Device specifications

Device name	WIN-5RD9TVT8VDE
Processor	Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz 1.80 GHz
Installed RAM	2.00 GB
Device ID	3B70B84E-AD73-4399-B6D1-FD289E4F4F76
Product ID	00430-00000-00000-AA768
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

Rename this PC

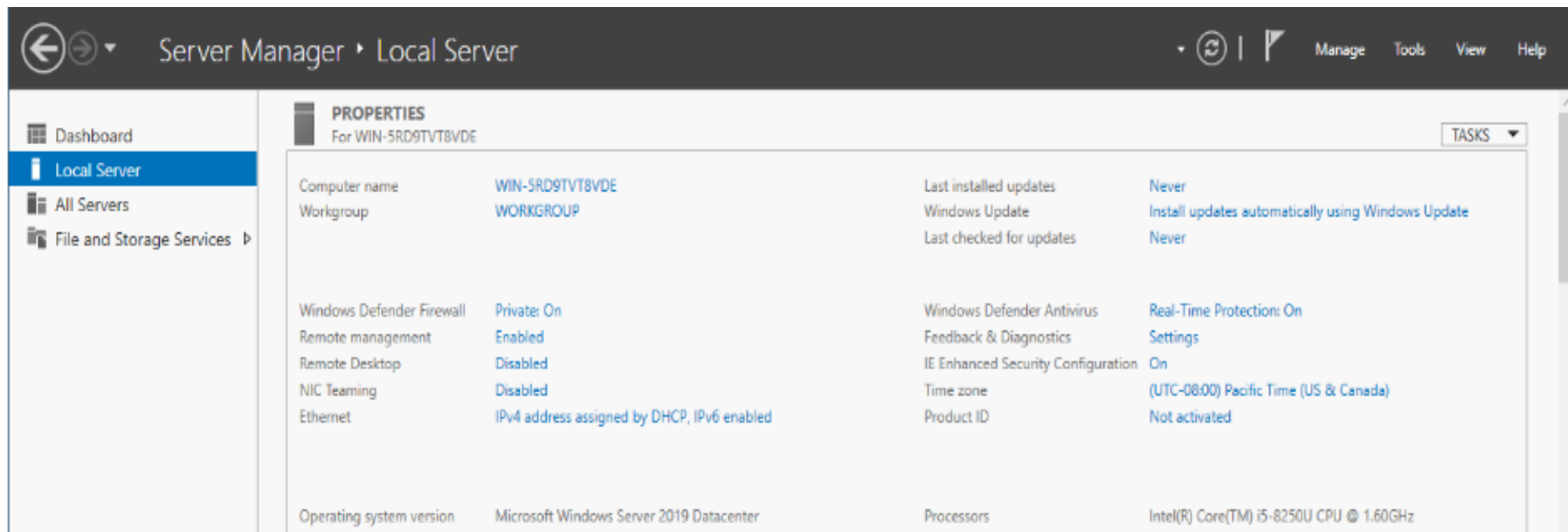
Windows specifications

Edition	Windows Server 2019 Datacenter
Version	1809
Installed on	2/10/2019
OS build	17763.1

[Change product key or upgrade your edition of Windows](#)

How To Install Windows Server 2019 Step by Step

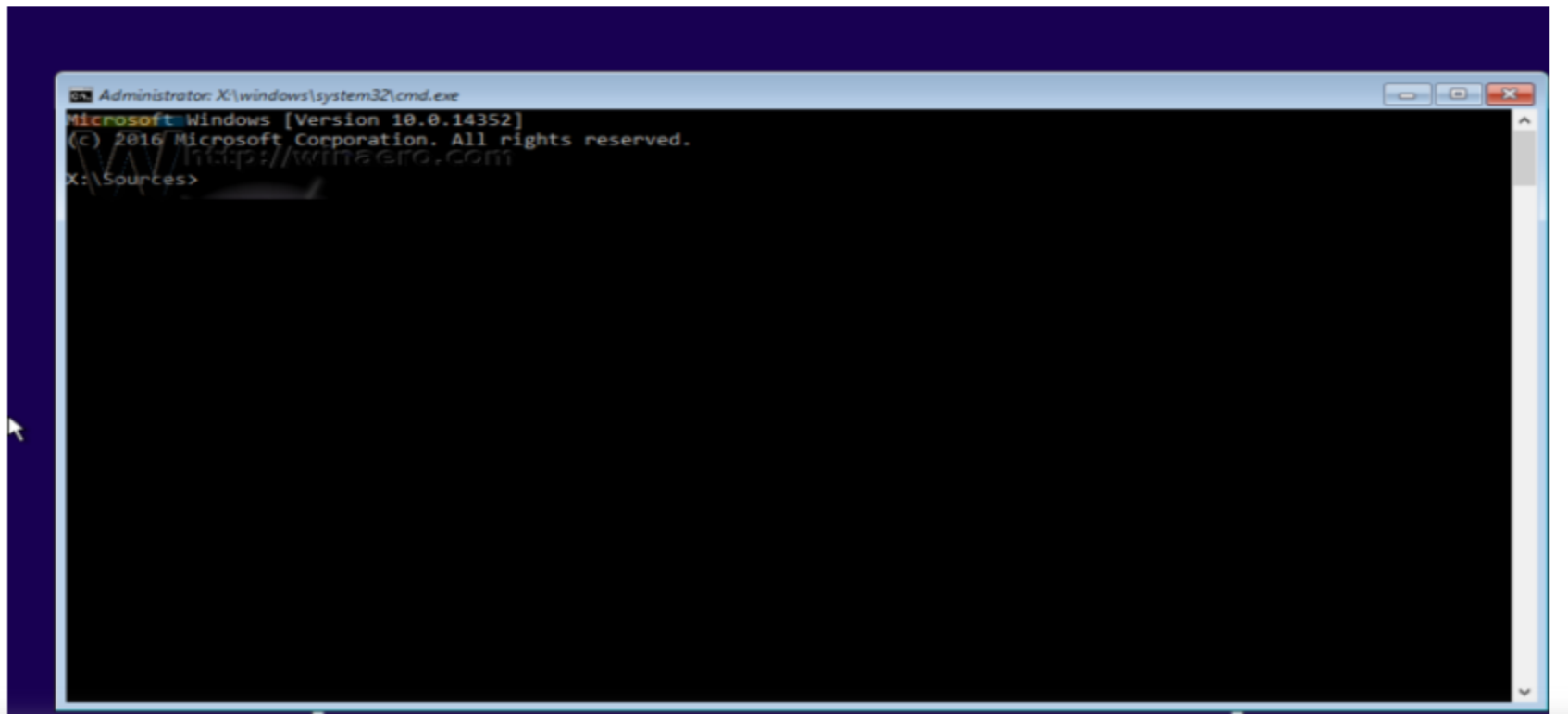
- Access to Server Manager Local Server section should also give you some details about Windows Server 2019 installation.



Next is to [install Windows terminal](#)


Open Command Prompt at Boot in Windows 10

Press **Shift** + **F10** keys together on the keyboard. This will open the command prompt window:



Open Command Prompt at Boot in Windows 10

Type taskmgr then task manger will open

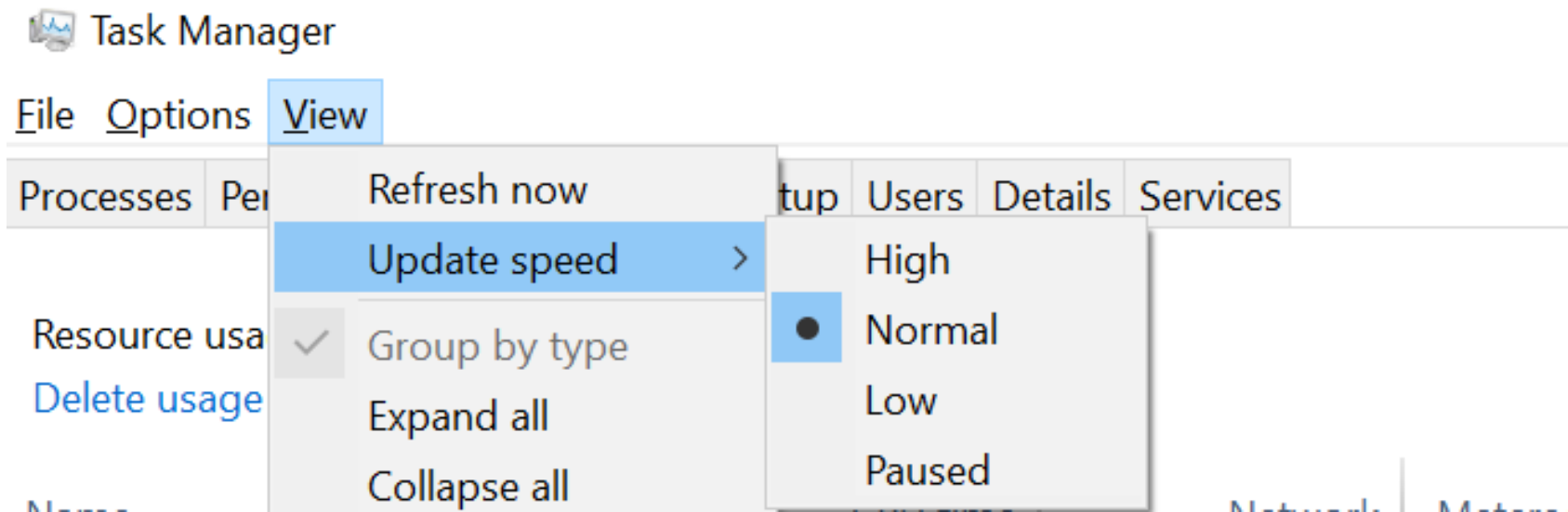
 C:\WINDOWS\system32\cmd.exe

```
Microsoft Windows [Version 10.0.19044.2130]  
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Users\Cherrifer Jane>taskmgr_
```

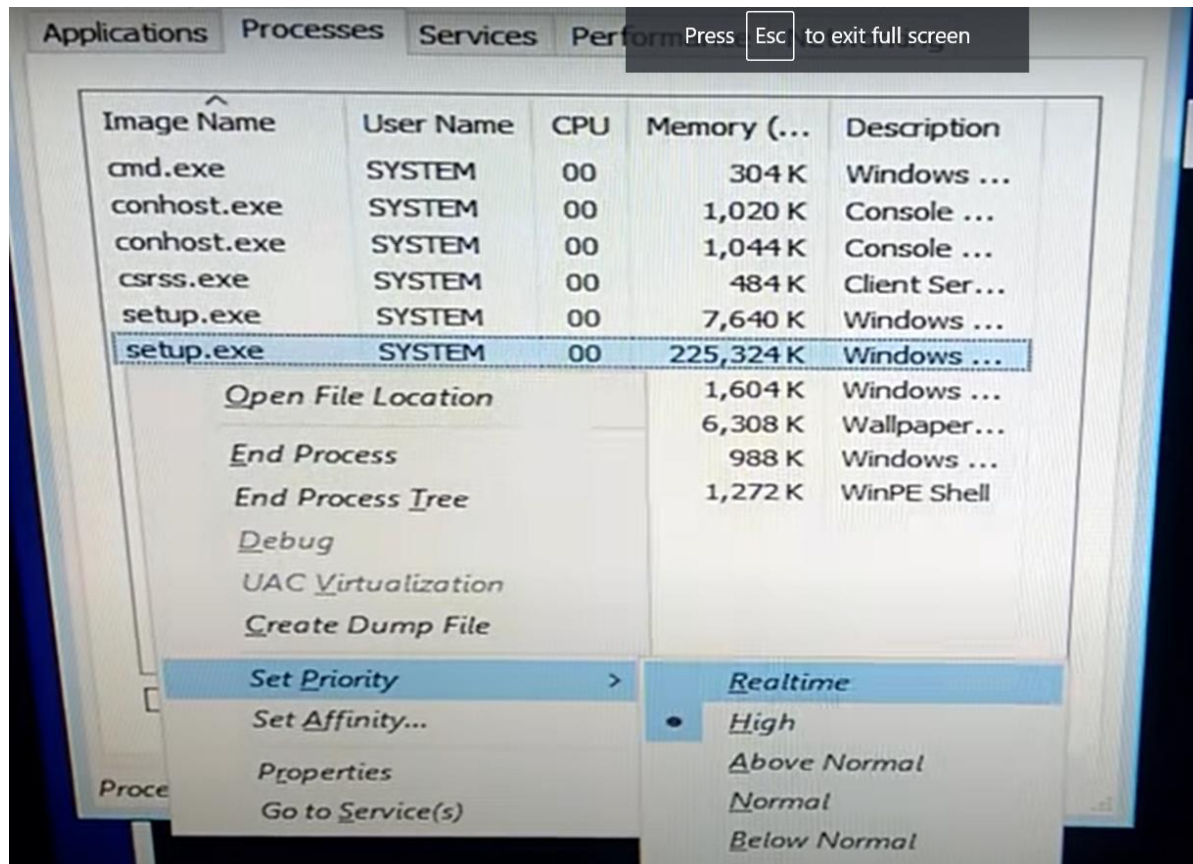
Open Command Prompt at Boot in Windows 10

Task Manager will open > Select View > Update Speed > then click high to boost the windows installation.



Open Command Prompt at Boot in Windows 10

Go to **Processes** > Select **setup.exe** with high memory allocation
> Right click > **select set priority** > right click then select **High**



How to create a bootable flashdrive?

```
Administrator: Command Prompt - diskpart
C:\Windows\system32>diskpart

Microsoft DiskPart version 10.0.10240

Copyright (C) 1999-2013 Microsoft Corporation.
On computer: DESKTOP-08G84GC

DISKPART> list disk

   Disk ###  Status              Size               Free              Dyn  Gpt
   -----  -
   Disk 0      Online              931 GB             319 GB
   Disk 1      Online              60 GB              53 GB
   Disk 2      Online              30 GB              30 GB

DISKPART> select disk 2

Disk 2 is now the selected disk.

DISKPART> clean

DiskPart succeeded in cleaning the disk.

DISKPART> create partition primary

DiskPart succeeded in creating the specified partition.

DISKPART> select partition 1

Partition 1 is now the selected partition.

DISKPART> format fs=ntfs quick

   100 percent completed

DiskPart successfully formatted the volume.

DISKPART> active

DiskPart marked the current partition as active.

DISKPART> exit
```

What is Configuration Management

- *Configuration management* is a centralized approach to applying one or more changes to one or more users or computers

The key elements of configuration management are:

- Setting
- Scope
- Application

The overview of group policies

- The most basic component of Group Policy is known as a *policy*, which defines a specific configuration change
- A policy setting can have three states:
 - Not Configured
 - Enabled
 - Disabled
- Many policy settings are complex, and the effect of enabling or disabling them might not be obvious

What is Group Policy?

- A Group Policy Object (GPO) is a virtual collection of policy settings. A GPO has a unique name, such as a GUID.
- Group Policy settings are contained in a GPO. A GPO can represent policy settings in the file system and in the Active Directory. GPO settings are evaluated by clients using the hierarchical nature of Active Directory.

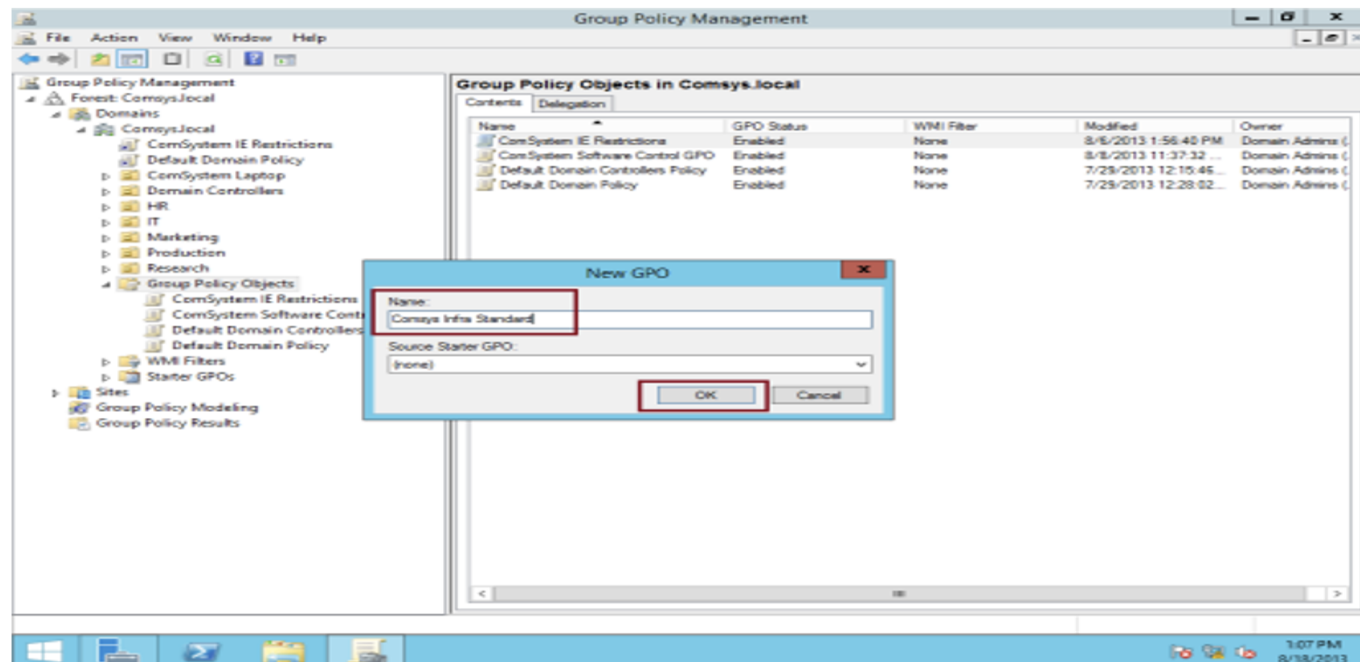
Benefits of group policy

- Group Policies are very powerful administrative tools
- You can use them to enforce various types of settings to a large number of users and computers
- Typically, you use GPOs to:
 - Apply security settings
 - Manage desktop application settings
 - Deploy application software
 - Manage Folder Redirection
 - Configure network settings

Demonstration: How to create GPO and configure GPO Settings

Creating & Configure GPO in Windows Server 2012 R2

1 – As usual on the domain server, create a new GPO, in my case my new GPO will be **Comsys Infra Standard...**



Any Questions



THANK YOU ☺

sin Gelil

The End

