



Install Software and Drivers for Running Applications and Devices Session 1

Session: Install Software and Drivers for Running Applications and Devices Session 1

Network Connectivity

Network Connectivity is defined as the extensive process of connecting various parts of a network to one another.

Network Devices

- Network devices connect the network to the hardware devices, such as:
 - Computers
 - Printers
 - Fax machines
 - Other electronic devices
- Network devices transfer data in a fast, secure and correct way.

Activity

1. Can you identify the names of devices shown here?

Types of Network Devices

- **Modem**
A device that enables a computer to send or receive data over telephone or cable lines.
- **Registered Jack 45 (RJ45)**

An 8-pin jack connector used by devices to physically connect to Ethernet-based LANs.

- **Ethernet Card**

Helps computers to connect to Ethernet LAN and communicate with other devices on the LAN.

- **Router**

Transmits data from one LAN to other, if both networks support the same protocols.

- **Switch**

A network device that connects other devices through twisted pair of cables to Ethernet networks.

Connect to the Network using Cable

Insert an Ethernet cable to your computer.

Insert the other end of the Ethernet cable into one of the hub's Ethernet ports.

Bluetooth and Wi-Fi Settings

We can connect wireless headset or any wireless device using a Bluetooth.

- Bluetooth
 - Short range wireless technology
 - Used to exchange information between different devices
- Connect to a Network using Bluetooth

In Settings

- Select Start
- Go to Settings
- Select Devices
- Turn on Bluetooth

In Action Center

- Select action center
- Select Bluetooth to turn it on.
- If it's turned off, it might appear as Not connected
 - Connecting Bluetooth with headset
 - Power on your Bluetooth headset
 - Click the Bluetooth icon on the computer
 - Select the device to be paired
 - Wi-Fi
 - Wireless networking technology
 - Allows devices to interface with the internet
 - Enables devices like computers, mobile devices, printers, video cameras, etc., to interface with the internet
 - Connect to a Network using Wi-Fi

Method-1

- Click the **Network** icon in the bottom-right corner of the taskbar
- Select **Wi-Fi**
- Check the **Connect automatically** option
- Click **Connect**
- Confirm the network security key or password
- Click **Next**

Method-2

- Open **Settings** and select **Network and Internet**
- Select **Wi-Fi**
- Click the **Manage known networks** option
- Click Add
- Type the Name of network
- Select the security type
- Check the Connect automatically option
- Click Save

MS Office

Applications in MS Office:

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Microsoft OneNote
- Microsoft Outlook
- Microsoft Publisher
- Microsoft Access
- Skype for Business
- Microsoft InfoPath

Windows 10 Apps

- Office Mobile for iPad/iPhone
- Office Mobile for Android
- Office Mobile for Windows Phone
- Office for Windows 10 Mobile

Install Microsoft Office Package

- Go to <http://www.office.com/myaccount/> and purchase the license
- Click Install Office
- Click Save file

- Open the file
 - Select Yes
 - Microsoft Office starts installing the software. Wait for the installation to complete
 - Click Close when prompted
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Acrobat Reader

Acrobat Reader can read a portable document format (PDF) file.

The files in pdf format can be shared and printed but cannot be modified.

It is easier to work with acrobat reader across computers and mobile devices.

- **Install Adobe Acrobat Reader**
 - Go to <https://get.adobe.com/reader/> and click Install now
 - Select Run
 - Click Finish
 - Restart your computer and check for Acrobat Reader icon
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Media Player

The media player is used to play audio and video files.

The most common media files are in mp3 and mp4 format.

- Common Media files types:
 - Windows Media formats (.asf, .wma, .wmv, .wm)
 - Windows Media Metafiles (.asx, .wax, .wvx, .wmx, wpl)
 - Microsoft Digital Video Recording (.dvr-ms)

- Windows Media Download Package (.wmd)
- Audio Visual Interleave (.avi)
- Moving Pictures Experts Group (.mpg, .mpeg, .m1v, .mp2, .mp3, .mpa, .mpe, .m3u)
- Musical Instrument Digital Interface (.mid, .midi, .rmi)
- Audio Interchange File Format (.aif, .aifc, .aiff)
- Sun Microsystems and NeXT (.au, .snd)
- Audio for Windows (.wav)
- CD Audio Track (.cda)
- Indeo Video Technology (.ivf)
- Windows Media Player Skins (.wmz, .wms)
- QuickTime Movie file (.mov)
- MP4 Audio file (.m4a)
- MP4 Video file (.mp4, .m4v, .mp4v, .3g2, .3gp2, .3gp, .3gpp)
- Windows Audio file (.aac, .adt, .adts)
- MPEG-2 TS Video file (.m2ts)
- Free Lossless Audio Codec (.flac)
- Install Windows Media Player
 - Open Settings, Select **Apps**
 - Select **Optional Features**
 - Click **Add a feature** button
 - Check **Windows Media Player**
 - Click **Install**
 - Install VLC Player
 - Go to www.videolan.org and click **Download VLC**
 - Open the downloaded file, a pop-up box appears, select **Yes**
 - Set up page appears, click **Next**
 - Select the language
 - License Agreement page appears, select **Next** to proceed
 - Choose components and select **Next**
 - Select the Location and click **Next**

- Installing progress bar appears showing the installation
- Completing the installation setup page appears. Select **Next**
- VLC Player appears on your screen

Virus Protection Software

- **Virus**
 - A virus can be a bug or code that attaches itself to a different program file.
 - Virus transports from one system to a different system.
 - Virus can pass from different media like **CD** or **memory stick** or **through an email**.
 - Infected files in a system can lead to personal data loss and password theft.

Windows Defender

- Windows defender is the built-in antivirus protection from Windows.
- Windows Defender Firewall protects the operating system and filters all network traffic.
- Windows defender is compatible with versions of Windows starting from XP and have a built-in firewall.
 - a) Firewall restricts access to a computer from an external network
 - b) Allows or blocks Internet access for installed apps and services
- Antivirus Software
 - Antivirus software detects and removes viruses on computers and networks.
 - Modern antivirus software system protects devices against malware without reducing their speed and performance.
 - Latest antivirus software detects the malware encrypted in plain text or image file.
 - The 5 most popular antivirus software
Norton, Bit defender, BullGuard, Panda, and McAfee

Drivers

A device driver or hardware driver is an interface between hardware devices and operating system.

Used to send and receive data correctly to hardware devices.

- Install Drivers for Using External Devices
- Printer

An output device that prints text and images into paper documents.

- Scanner

An input device used to scan documents from paper to the computer in electronic version.

- Web Cam

A small digital camera that connects with the computer to capture and transmit videos and images.

- DVD Drive

A device, which used to read and write data in CD/DVD.

- Install drivers for Printers/Scanners
 1. Open Settings and Select Devices
 2. Select Printers and Scanners
 3. Click the Add a printer or Scanner button
 4. Add a device page appear
 5. A message *the printer I want is not listed* is displayed
 6. Select “Add a local printer or network printer with manual setting” option and click Next
 7. Select the option “Use an existing port” and select LPT1 : (Printer Port)
 8. Select the desired printer name and model from the list
 9. Select have a disk and insert the disk
 10. Install the disk and click OK
 11. Give printer name
 12. Click Next
 13. Select print a test page

14. Click Finish

- Install Drivers for Webcam
- Plug the webcam into your PC's USB port.
- The Computer detects the device and asks to install the drivers.
- Follow the steps to install the drivers and restart your PC.