Name:V venselvam
Roll no:23190106

EX NO 1:Windows Fundamentals

AIM: To learn about windows fundamentals using tryhackme platform

Accept the Certificate when prompted, and you should be logged into the remote system now.

Note : The virtual machine may take up to 3 minutes to load.

Answer the questions below

Read above and start the virtual machine.

No answer needed	✓ Correct Answer

Name:V venselvam
Roll no:23190106

The Windows operating system has a long history dating back to 1985, and currently, it is the dominant operating system in both home use and corporate networks. Because of this, Windows has always been targeted by hackers & malware writers.

Windows XP was a popular version of Windows and had a long-running. Microsoft announced Windows Vista , which was a complete overhaul of the Windows operating system. There were many issues with Windows Vista. It wasn't received well by Windows users, and it was quickly phased out.

When Microsoft announced the end-of-life date for Windows XP, many customers panicked. Corporations, hospitals, etc., scrambled and tested the next viable Windows version , which was Windows 7, against many other hardware and devices. Vendors had to work against the clock to ensure their products worked with Windows 7 for their customers. If they couldn't, their customers had to break their agreement and find another vendor that upgraded their products to work with Windows 7. It was a nightmare for many, and Microsoft took note of it.

Windows 7, as quickly as it was released soon after, was marked with an end of support date. Windows 8.x came and left and it was short-lived, like Vista.

Then arrived Windows 10 , which is the current Windows operating system version for desktop computers .

Windows 10 comes in 2 flavors, Home and Pro. You can read the difference between the Home and Pro here .

Even though we didn't talk about servers, the current version of the Windows operating system for servers is Windows Server 2019 .

Many critics like to bash on Microsoft, but they have made long strides to improve the usability and security with each new version of Windows .

Note : The Windows edition for the attached VM is Windows Server 2019 Standard, as seen in **System Information** .

Update : As of June 2021, Microsoft announced the retirement dates for Windows 10 here .

" *Microsoft will continue to support at least one Windows 10 Semi-Annual Channel until October 14, 2025* ".

As of October 5th, 2021 - Windows 11 now is the current Windows operating system for end-users. Read more about Windows 11 here .

Answer the questions below

What encryption can you enable on Pro that you can't enable in Home?

BitLocker	✓ Correct Answer

Name:V venselvam
Roll no:23190106

When you close any of these items, they will disappear from the taskbar (unless you explicitly pinned it to the taskbar).

The Notification Area

The Notification Area, which is typically located at the bottom right of the Windows screen, is where the date and time are displayed. Other icons possibly visible in this area is the volume icon, network/wireless icon, to name a few. Icons can be either added or removed from the Notification Area in Taskbar settings.
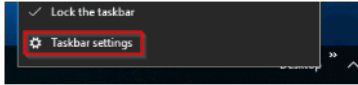
From there, scroll down to the Notification Area section to make changes.

Taskbar

Always, hide labels

How do I customize taskbars?

Notification area

Select which icons appear on the taskbar

Turn system icons on or off

Here are Microsoft's brief documents for the Start Menu and Notification Area .

Tip : You can right-click any folder, file, app/program, or icon to view more information or p erform other actions on the clicked item.

Answer the questions below

Which selection will hide/disable the Search box?

| Hidden | ✓ Correct Answer |

Which selection will hide/disable the Task View button?

| Show Task View button | ✓ Correct Answer |

Besides Clock and Network, what other icon is visible in the Notification Area?

| Action Center | ✓ Correct Answer | ⚲ Hint |

Name:V venselvam
Roll no:23190106

Windows fundamentals 2

In Windows Fundamentals 1, we covered the desktop, the file system, user account control, the control panel, settings, and the task manager.

This module will attempt to provide an overview of some other utilities available within the Windows operating system and different methods to access these utilities.

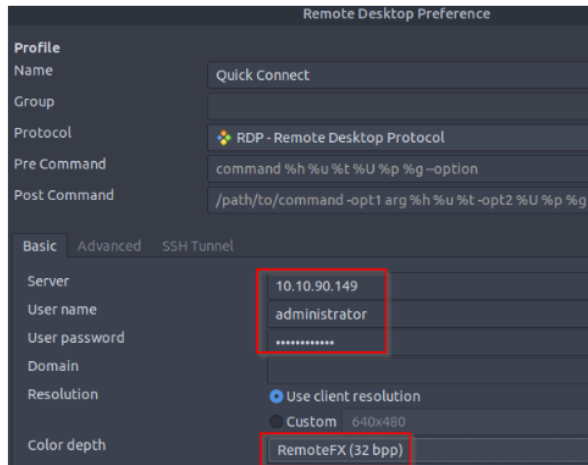Press the **Start Machine** button below to launch the attached virtual machine.

▶ Start Machine

If you wish to access the virtual machine via Remote Desktop, use the credentials below.

Machine IP: `MACHINE_IP`

User: `administrator`

Password: `letmein123!`

Remote Desktop Preference	
Profile	
Name	Quick Connect
Group	
Protocol	🔷 RDP - Remote Desktop Protocol
Pre Command	command %h %u %t %U %p %g --option
Post Command	/path/to/command -opt1 arg %h %u %t -opt2 %U %p %g

Basic | Advanced | SSH Tunnel

Server	10.10.90.149
User name	administrator
User password	....
Domain	
Resolution	⦿ Use client resolution
	◯ Custom 640x480
Color depth	RemoteFX (32 bpp)

Accept the Certificate when prompted, and you should be logged into the remote system now.

Note: The virtual machine may take up to 3 minutes to load.

Answer the questions below

Read above and start the virtual machine.

No answer needed	✓ Correct Answer

Name:V venselvam
Roll no:23190106

As you can see, Microsoft advises using **Task Manager** (`taskmgr`) to manage (enable/disable) startup items. The System Configuration utility is **NOT** a startup management program.

Note: If you open Task Manager for the attached VM, you will notice that Task Manager doesn't show a Startup tab.

There is a list of various utilities (tools) in the Tools tab that we can run to configure the operating system further. There is a brief description of each tool to provide some insight into what the tool is for.
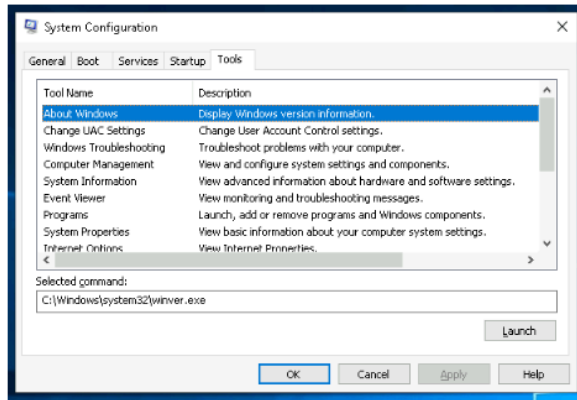
Notice the **Selected command** section. The information in this textbox will change per tool.

To run a tool, we can use the command to launch the tool via the run prompt, command prompt, or by clicking the `Launch` button.

Answer the questions below

What is the name of the service that lists Systems Internals as the manufacturer?

| PsShutdown | ✓ Correct Answer |

Whom is the Windows license registered to?

| Windows User | ✓ Correct Answer |

What is the command for Windows Troubleshooting?

| C:\Windows\System32\control.exe /name Microsoft.Troubleshooting | ✓ Correct Answer |

What command will open the Control Panel? (The answer is the name of .exe, not the full path)

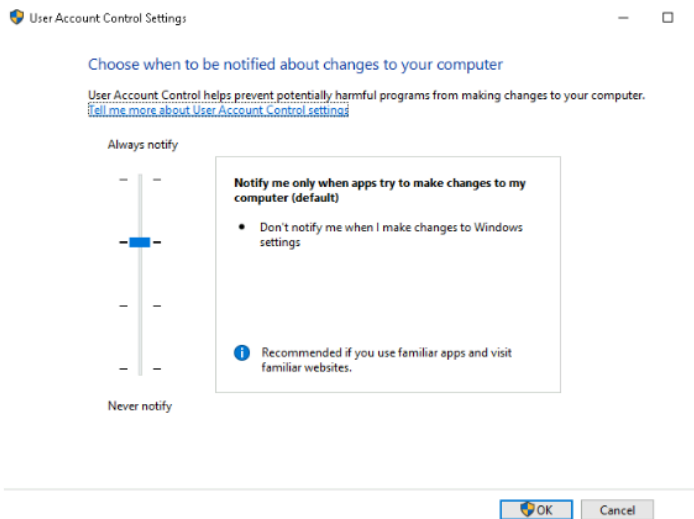| control.exe | ✓ Correct Answer |

Name:V venselvam
Roll no:23190106

Task 3 ✅ Change UAC Settings

We're continuing with Tools that are available through the **System Configuration** panel.

User Account Control (UAC) was covered in great detail in Windows Fundamentals 1.

The UAC settings can be changed or even turned off entirely (not recommended).

You can move the slider to see how the setting will change the UAC settings and Microsoft's stance on the setting.

🛡 User Account Control Settings   —   □

Choose when to be notified about changes to your computer

User Account Control helps prevent potentially harmful programs from making changes to your computer.
Tell me more about User Account Control settings

Always notify

— | —

— | —

— | ▮ | —   **Notify me only when apps try to make changes to my computer (default)**

• Don't notify me when I make changes to Windows settings

— | —

— | —   ⓘ Recommended if you use familiar apps and visit familiar websites.

Never notify

🛡 OK   Cancel

Answer the questions below

What is the command to open User Account Control Settings? (The answer is the name of the .exe file, not the full path)

UserAccountControlSettings.exe   ✓ Correct Answer

Windows fundamentals 3

Name:V venselvam
Roll no:23190106

Press the **Start Machine** button below to launch the attached virtual machine.

▶ Start Machine

If you wish to access the virtual machine via Remote Desktop, use the credentials below.

Machine IP: `MACHINE_IP`

User: `administrator`

Password: `letmein123!`

Remote Desktop Preference	
Profile	
Name	Quick Connect
Group	
Protocol	◆ RDP - Remote Desktop Protocol
Pre Command	command %h %u %t %U %p %g --option
Post Command	/path/to/command -opt1 arg %h %u %t -opt2 %U %p %g

Basic Advanced SSH Tunnel

Server	10.10.90.149
User name	administrator
User password	••••••••••••
Domain	
Resolution	⦿ Use client resolution
	○ Custom 640x480
Color depth	RemoteFX (32 bpp)

Accept the Certificate when prompted, and you should be logged into the remote system now.

Note: The virtual machine may take up to 3 minutes to load.

Answer the questions below

Read the above and start the virtual machine.

No answer needed	✓ Correct Answer

Microsoft notably addressed this issue with Windows 10. The updates can no longer be ignored or pushed to the side until forgotten. Windows updates can only be postponed, but eventually, the update will happen, and your computer will reboot. Microsoft provides these updates to keep the device safe and secure.

Below is an image showing how a **Restart required** looks and the several options available regarding scheduling the restart.

Refer to the Windows Updates FAQ for more information.

Answer the questions below

There were two definition updates installed in the attached VM. On what date were these updates installed?
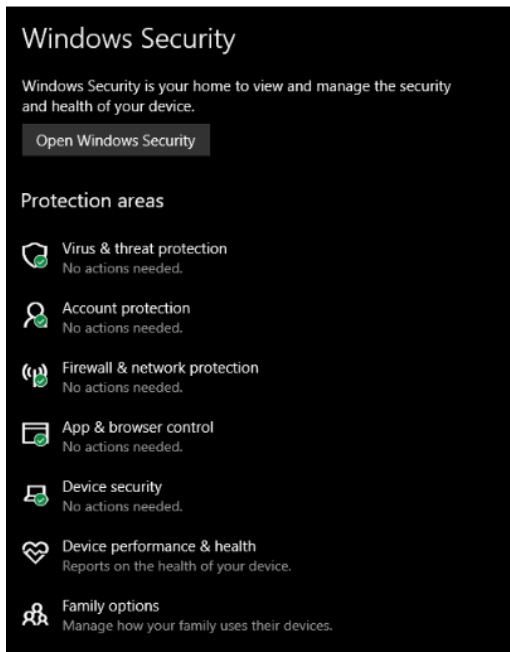
5/3/2021	✓ Correct Answer

Name:V venselvam
Roll no:23190106

The below image is from a Windows 10 device.

Windows Security

Windows Security is your home to view and manage the security and health of your device.

Open Windows Security

Protection areas

Virus & threat protection
No actions needed.

Account protection
No actions needed.

Firewall & network protection
No actions needed.

App & browser control
No actions needed.

Device security
No actions needed.

Device performance & health
Reports on the health of your device.

Family options
Manage how your family uses their devices.

Next, we'll look at **Virus & threat protection**.

Answer the questions below

Checking the Security section on your VM, which area needs immediate attention?

| Virus & threat protection | ✓ Correct Answer |