

# Lab - Windows Task Manager

## Objectives

In this lab, you will explore Task Manager and manage processes from within Task Manager.

**Part 1: Working in the Processes tab**

**Part 2: Working in the Services tab**

**Part 3: Working in the Performance tab**

## Background / Scenario

The Task Manager is a system monitor program that provides information about the processes and programs running on a computer. It also allows the termination of processes and programs and modification of process priority.

## Required Resources

- A Windows PC with internet access

## Instructions

### Part 1: Working in the Processes tab

- a. Open a command prompt and a web browser.

Microsoft Edge is used in this lab; however, any web browser will work. Just substitute your browser name whenever you see Microsoft Edge.

- b. Right-click the Task bar to open **Task Manager**. Another way to open the Task Manager is to press **Ctrl-Alt-Delete** to access the Windows Security screen and select **Task Manager**.
- c. Click **More details** to see all the processes that are listed in the Processes tab.
- d. Expand the Windows Command Processor heading.

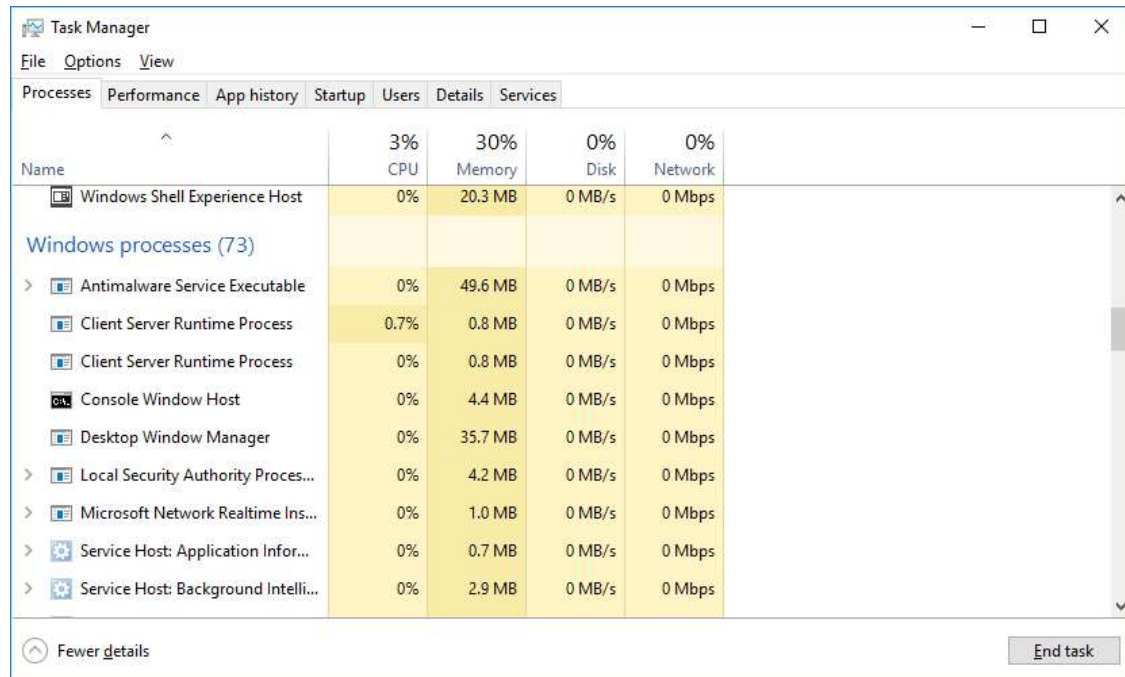
What is listed under this heading?

**Windows Command Processor Manager нь систем дээр ажиллаж буй процессуудыг cmd.exe болон PowerShell гэх мэт Shell ийн тусламжтай үзүүлдэг.**

- e. There are three categories of processes listed in the Processes tab: Apps, Background processes, and Windows processes.
  - The Apps are the applications that you have opened, such as Microsoft Edge, Task Manager, and Windows Command Processor, as shown in the figure above. Other applications that are opened by the users, such as web browsers and email clients, will also be listed here.
  - The Background processes are executed in the background by applications that are currently open.
  - The Windows processes are not shown in the figure. Scroll down to view them on your Windows PC. Windows processes are Microsoft Windows services that run in the background.

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Some of the background processes or Windows processes may be associated with foreground processes. For example, if you open a command prompt window, the Console Window Host process will be started in the Windows process section, as shown below.



Name	CPU	Memory	Disk	Network
Windows Shell Experience Host	0%	20.3 MB	0 MB/s	0 Mbps
<b>Windows processes (73)</b>				
Antimalware Service Executable	0%	49.6 MB	0 MB/s	0 Mbps
Client Server Runtime Process	0.7%	0.8 MB	0 MB/s	0 Mbps
Client Server Runtime Process	0%	0.8 MB	0 MB/s	0 Mbps
Console Window Host	0%	4.4 MB	0 MB/s	0 Mbps
Desktop Window Manager	0%	35.7 MB	0 MB/s	0 Mbps
Local Security Authority Proces...	0%	4.2 MB	0 MB/s	0 Mbps
Microsoft Network Realtime Ins...	0%	1.0 MB	0 MB/s	0 Mbps
Service Host: Application Infor...	0%	0.7 MB	0 MB/s	0 Mbps
Service Host: Background Intelli...	0%	2.9 MB	0 MB/s	0 Mbps

- f. Right-click Console Window Host and select **Properties**.

What is the location of this filename and location of this process?

**Файлын нэр: conhost Байршил C:\Windows\System32**

- g. Close the command prompt window.

What happens to Windows Command Processor and Console Window Host when the command prompt window is closed?

**Системийн процесс Console Window Host-ийг зогсоохыг хүсэж байна уу? Зогсоох юм бол компьютер ашиглах боломжгүй болох аль эсвэл компьютер унтарч хадгалагдаагүй өгөгдөл алдагдна. Та үргэлжлүүлэх үү? гэх мэт анхааруулга өгсөн.**

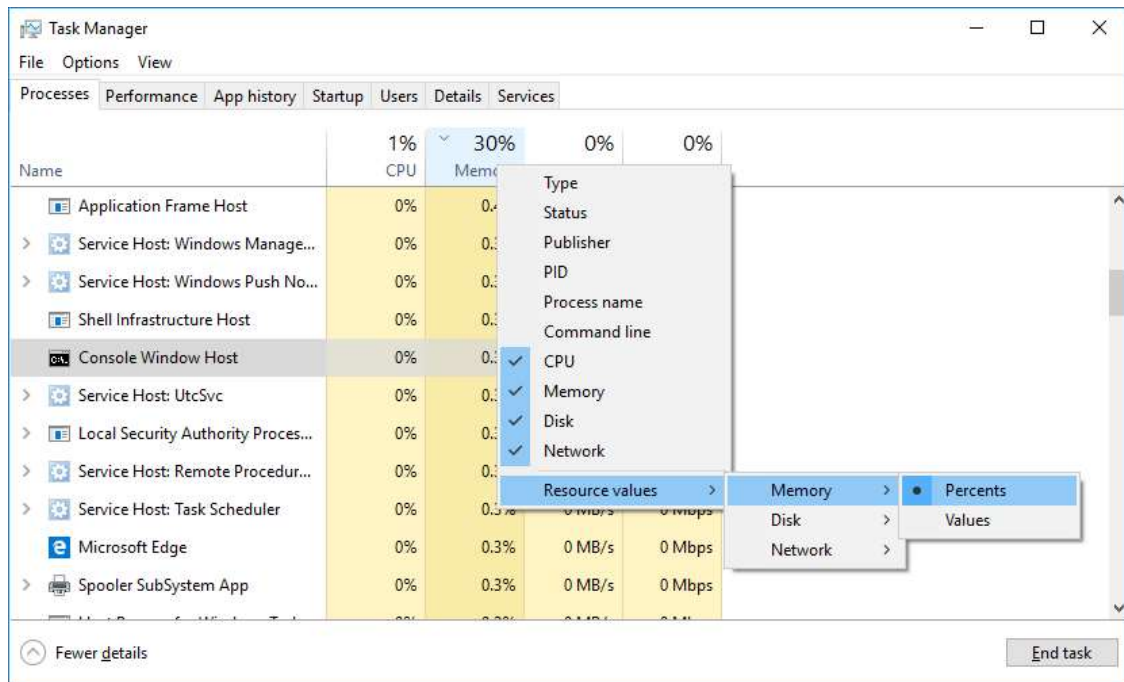
- h. Click the Memory heading. Click the Memory heading a second time.

What effect does this have on the columns?

**Анх дарах үед ажиллаж байга процессууд, программуудыг санах ойн ашиглалтаар нь буурах дарааллаар эрэмбэлэсэн бол ахин дарах үе өсөх дарааллаар эрэмбэлж харуулсан.**

- i. Right-click on the Memory heading, and then select **Resource values > Memory > Percents**.

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What affect does this have on the Memory column?

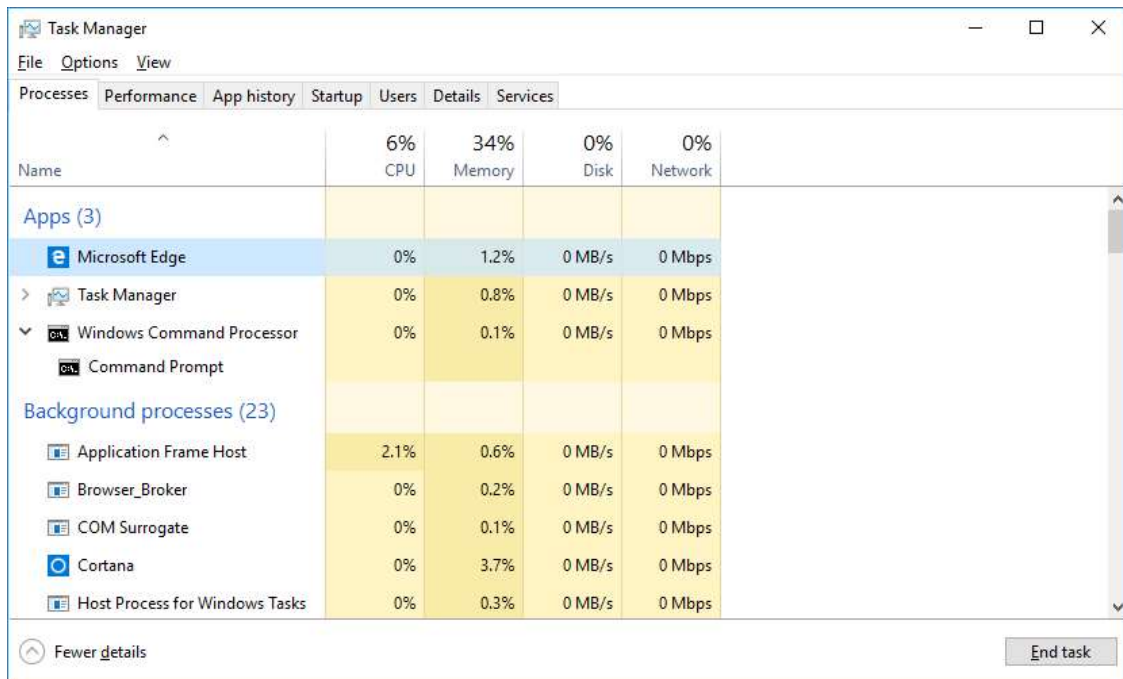
**Ажиллаж байгаа программуудыг Memory ашиглалтын хэмжээгээр нь эрэмбэлж байгаад ашиглалтын хувиар эрэмбэлж үзүүлсэн.**

How could this be useful?

**Хувиар эрэмбэлснээр хэрэглэгч илүү хурдан дүгнэлт хийж чадна.**

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- j. In the Task Manager, click the **Name** heading.



- k. Double-click the Microsoft Edge.

What happens?

**сонгосон процессын доторх процессийг үзүүлж байна.**

- l. Return to the Task Manager and right-click Microsoft Edge. Select **End task**.

What happens to the web browser windows?

**Процессыг хүчээр таслаж зогсоох үйлдэл юм шиг байна.**

## Part 2: Working in the Services tab

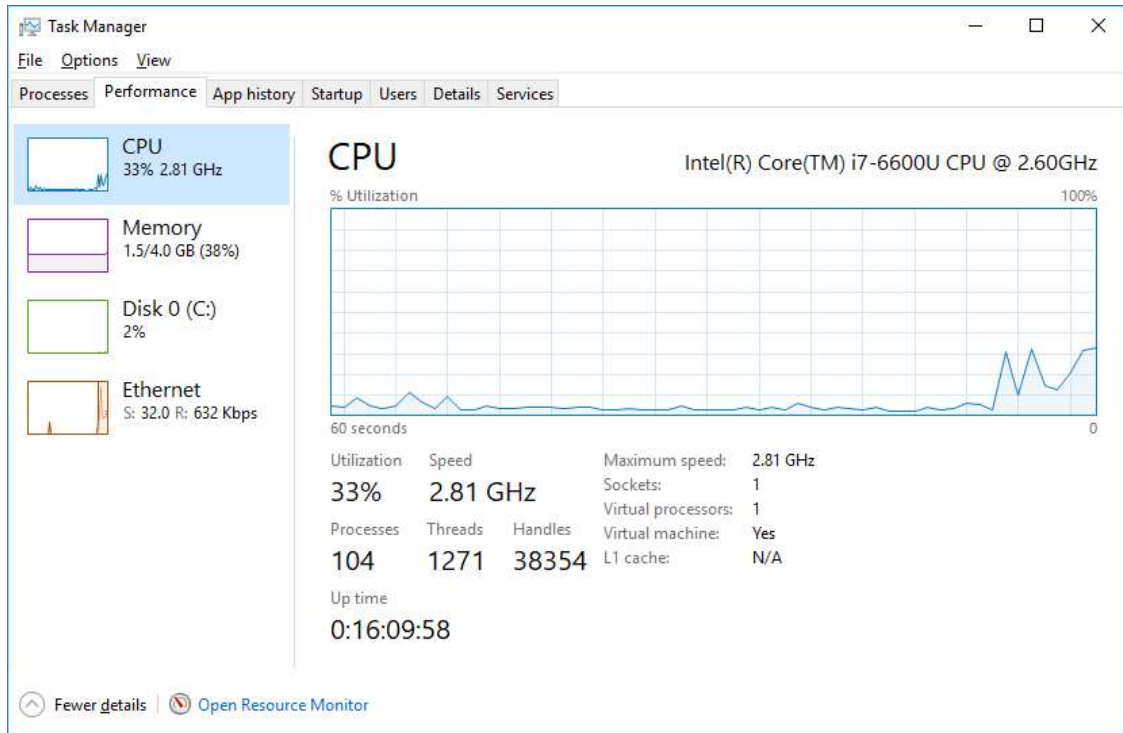
In the Task Manager window, click the **Services** tab. Use the scroll bar on the right side of the **Services** window to view all the services listed.

What statuses are listed?

**Тухайн сервисийн ажиллаж буй эсэхийг харуулж байна.**

### Part 3: Working in the Performance tab

- a. In the Task Manager window, click the **Performance** tab.



How many threads are running?

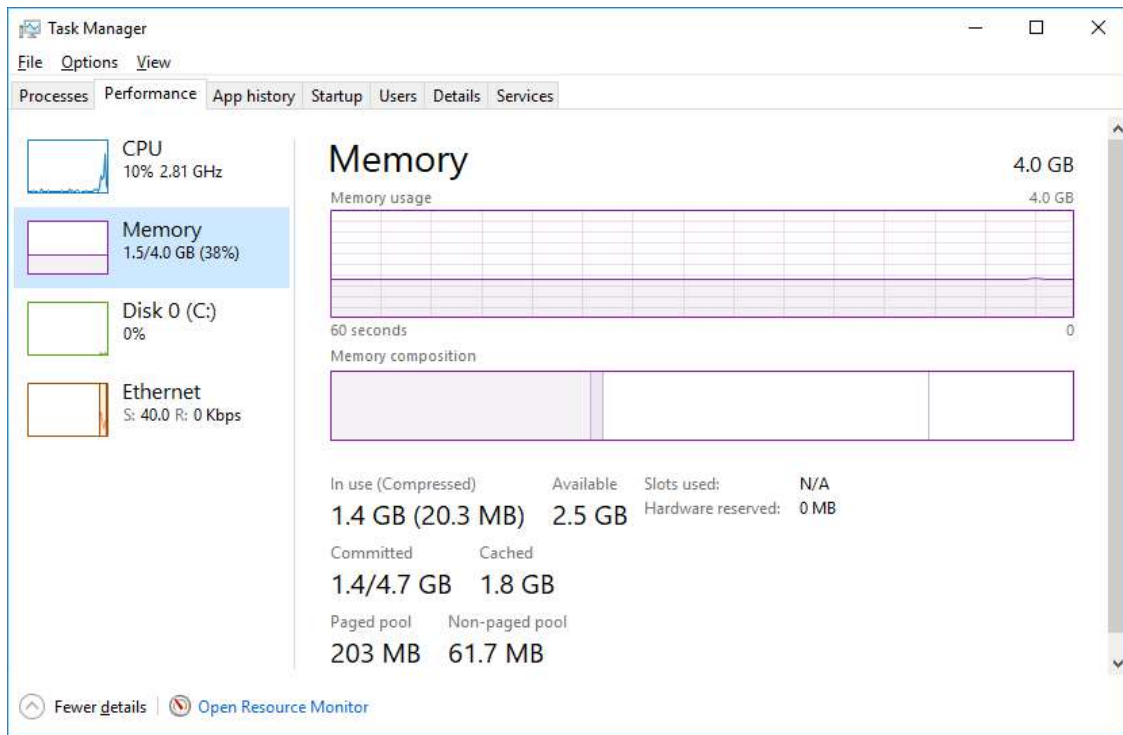
**1271 юм шиг байна**

How many processes are running?

**104 гэж харагдаж байна**

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- b. Click the **Memory** in the left panel of the **Performance** tab.



What is the total physical memory (MB)?

**4096Mb байна**

What is the available physical memory (MB)?

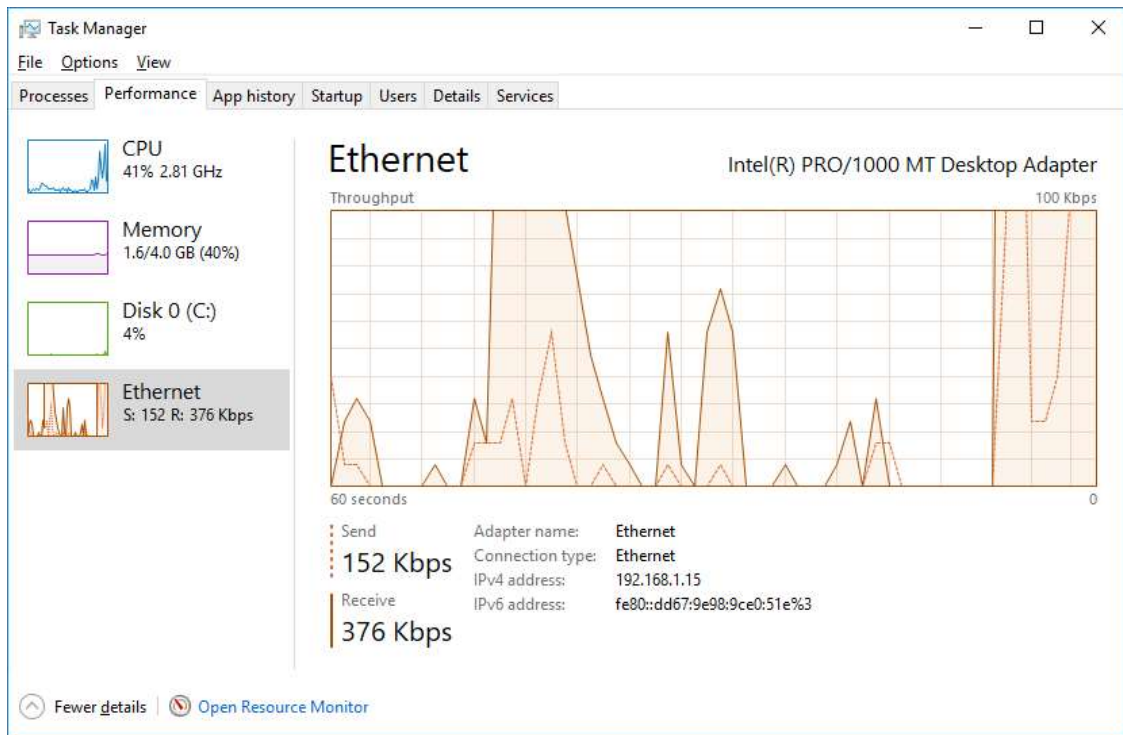
**2560Mb**

How much physical memory (MB) is being used by the computer?

**1536Mb**

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- c. Click the **Ethernet Chart** in the left panel of the **Performance** tab.



What is the link speed?

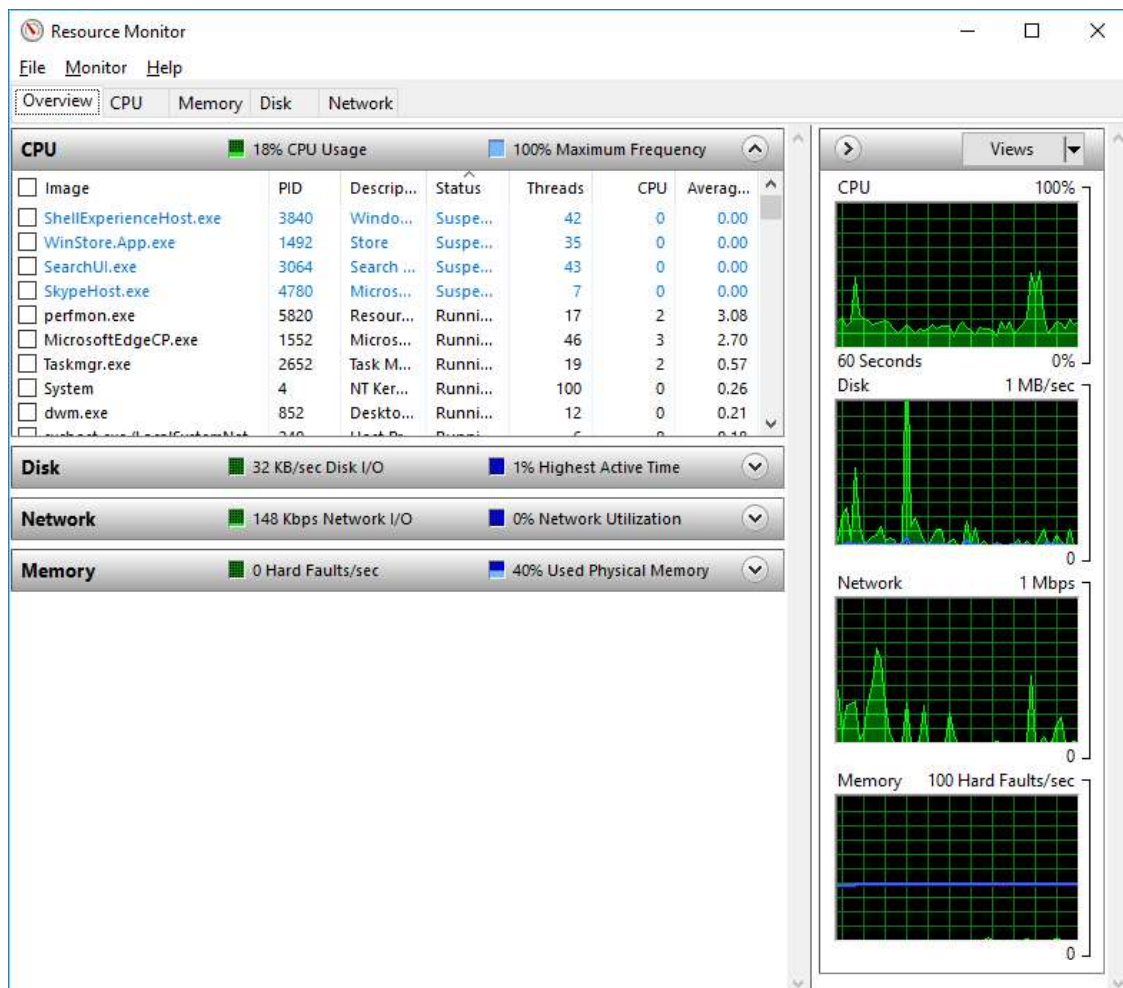
**528Kbps**

What is the IPv4 address of the PC?

**192.168.1.15**

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- d. Click **Open Resource Monitor** to open the Resource Monitor utility from the Performance tab in Task Manager.



## Reflection Question

Why is it important for an administrator to understand how to work within the Task Manager?

**Task Manager нь системийн ажиллагааг тодорхойлох, хостын ачаалалын мэдээллийг дэлгэрэнгүйгээр харуулах, хостод зөвшөөрөлгүй, далд ажиллаж буй процессуудыг тодорхойлох боломж олгож буй програм юм. Администратор болон компьютерийн хэрэглэгчид Task Manager ашиглаж, системийн үйл ажиллагааг шалгаж, алсын зайнаас тухайн алдаа, гэмтлийг засах боломжтой болно.**