Ubuntu 22.04 LTS Installation

SunBeam Institute of Information Technology, Pune & Karad

```
PS C:\WINDOWS\system32> $env:firmware_type
UEFI ←———— Legacy or UEFI <--- Boot type
PS C:\WINDOWS\system32> diskpart
```

Disk type: Basic or Dynamic.
MUST be Basic

```
Microsoft DiskPart version 10.0.19041.964

Copyright (C) Microsoft Corporation.
On computer: DESKTOP-7HQSNA6
```

Partition Type:
GPT or MBR

```
DISKPART> list disk

  Disk ###  Status         Size     Free     Dyn  Gpt
  --------  -------------  -------  -------   ---  ---
  Disk 0    Online         476 GB   1024 KB   [ ]  [*]      +


DISKPART> exit
```

Desktop icons (labels):
- Recycle Bin
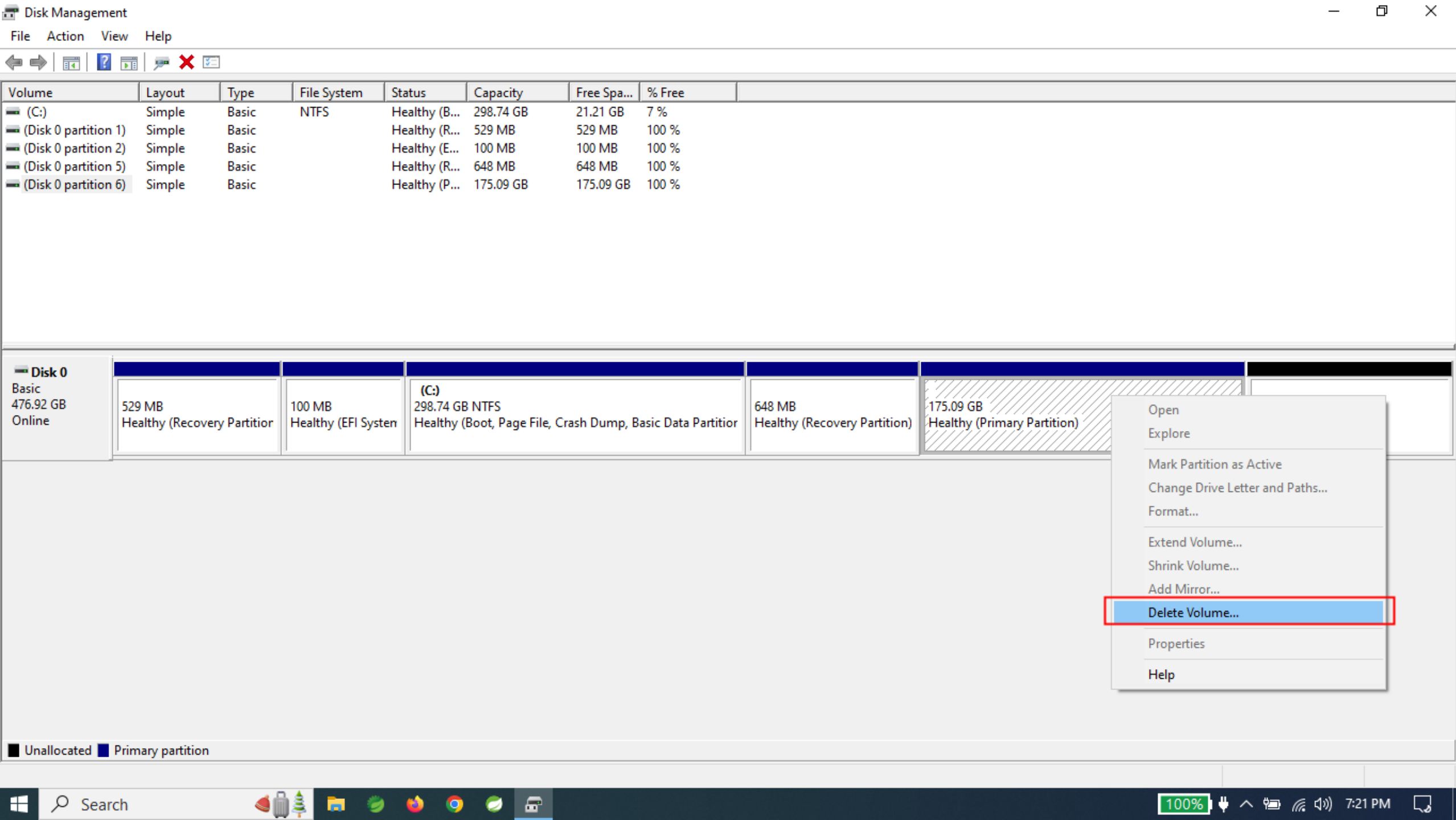- DMC_Scho...
- General

Start menu (power user menu):

- Apps and Features
- Mobility Center
- Power Options
- Event Viewer
- System
- Device Manager
- Network Connections
- Disk Management
- Computer Management
- Windows PowerShell
- Windows PowerShell (Admin)
- Task Manager
- Settings
- File Explorer
- Search
- Run
- Shut down or sign out
- Desktop

Start

Search

100%   7:19 PM

Disk Management

File   Action   View   Help

Volume	Layout	Type	File System	Status	Capacity	Free Spa...	% Free
(C:)	Simple	Basic	NTFS	Healthy (B...	298.74 GB	21.21 GB	7 %
(Disk 0 partition 1)	Simple	Basic		Healthy (R...	529 MB	529 MB	100 %
(Disk 0 partition 2)	Simple	Basic		Healthy (E...	100 MB	100 MB	100 %
(Disk 0 partition 5)	Simple	Basic		Healthy (R...	648 MB	648 MB	100 %
(Disk 0 partition 6)	Simple	Basic		Healthy (P...	175.09 GB	175.09 GB	100 %
(Disk 0 partition 7)	Simple	Basic		Healthy (P...	1.85 GB	1.85 GB	100 %

Identify the FREE partition.
80 to 100 GB.

Disk 0
Basic
476.92 GB
Online

529 MB
Healthy (Recovery Partition

100 MB
Healthy (EFI System

(C:)
298.74 GB NTFS
Healthy (Boot, Page File, Crash Dump, Basic Data Partition

648 MB
Healthy (Recovery Partition)

175.09 GB
Healthy (Primary Partition)

1.85 GB
Healthy (Primary Partition)

■ Unallocated   ■ Primary partition

Search   7:20 PM

Disk Management

File **Action** **View** **Help**

Volume	Layout	Type	File System	Status	Capacity	Free Spa...	% Free
(C:)	Simple	Basic	NTFS	Healthy (B...	298.74 GB	21.21 GB	7 %
(Disk 0 partition 1)	Simple	Basic		Healthy (R...	529 MB	529 MB	100 %
(Disk 0 partition 2)	Simple	Basic		Healthy (E...	100 MB	100 MB	100 %
(Disk 0 partition 5)	Simple	Basic		Healthy (R...	648 MB	648 MB	100 %

Unallocated space after deleting the FREE volume,

Disk 0
Basic
476.92 GB
Online

529 MB	100 MB	(C:)	648 MB	176.94 GB
Healthy (Recovery Partition)	Healthy (EFI System Pa	298.74 GB NTFS Healthy (Boot, Page File, Crash Dump, Basic Data Partition)	Healthy (Recovery Partition)	Unallocated

■ Unallocated ■ Primary partition

Search

100% 7:23 PM

Try or Install Ubuntu
Ubuntu (safe graphics)
OEM install (for manufacturers)
Boot from next volume
UEFI Firmware Settings

Install

Welcome

- English
- Español
- Esperanto
- Euskara
- Français
- Gaeilge
- Galego
- Hrvatski
- Íslenska
- Italiano
- Kurdî
- Latviski
- Lietuviškai
- Magyar

Try Ubuntu

Install Ubuntu

You can try Ubuntu without making any changes to your computer, directly from this CD.

Install

Keyboard layout

Choose your keyboard layout:

English (Australian)	**English (US)**
English (Cameroon)	English (US) - Cherokee
English (Ghana)	English (US) - English (Colemak)
English (Nigeria)	English (US) - English (Colemak-DH ISO)
English (South Africa)	English (US) - English (Colemak-DH)
English (UK)	English (US) - English (Dvorak)
English (US)	English (US) - English (Dvorak, alt. intl.)
Esperanto	English (US) - English (Dvorak, intl., with dead keys)
Estonian	English (US) - English (Dvorak, left-handed)
Faroese	English (US) - English (Dvorak, right-handed)
Filipino	English (US) - English (Macintosh)
Finnish	English (US) - English (Norman)
French	English (US) - English (US, Symbolic)

Type here to test your keyboard

Detect Keyboard Layout

Quit   Back   Continue

Install

Wireless

Connecting this computer to a Wi-Fi network allows you to install third-party software, download updates, automatically detect your timezone, and install full support for your language.

- ● I don't want to connect to a Wi-Fi network right now
- ○ Connect to this network

  ∨ Intel Corporation Wi-Fi 6 AX201
  - 📶 DIRECT-SU-BRAVIA
  - 📶 MPOFFICE
  - 📶 Sarswati
  - 📶 SunBeam

Quit   Back   Continue

Install

Updates and other software

What apps would you like to install to start with?

◉ Normal installation

    Web browser, utilities, office software, games, and media players.

○ Minimal installation

    Web browser and basic utilities.

Other options

☐ Download updates while installing Ubuntu

    This saves time after installation.

☐ Install third-party software for graphics and Wi-Fi hardware and additional media formats

    This software is subject to license terms included with its documentation. Some is proprietary.

Quit   Back   Continue

Install

Installation type

This computer currently has Windows Boot Manager on it. What would you like to do?

○ **Install Ubuntu alongside Windows Boot Manager**
Documents, music, and other personal files will be kept. You can choose which operating system you want each time the computer starts up.

○ **Erase disk and install Ubuntu**
Warning: This will delete all your programs, documents, photos, music, and any other files in all operating systems.

☐ Encrypt the new Ubuntu installation for security
You will choose a security key in the next step.

☐ Use LVM with the new Ubuntu installation
This will set up Logical Volume Management. It allows taking snapshots and easier partition resizing.

◉ **Something else**
You can create or resize partitions yourself, or choose multiple partitions for Ubuntu.

[Quit] [Back] [**Continue**]

Installation type

	free space	nvme0n1p1 (ntfs)	nvme0n1p2 (fat32)	nvme0n1p3 (unknown)	nvme0n1p4 (ntfs)	free
	1.0 MB	554.7 MB	104.9 MB	16.8 MB	320.8 GB	676.9

Device	Type	Mount point	Format?	Size	Used	System
/dev/nvme0n1p2	efi		☐	104 MB	33 MB	Windows Boot Manager
/dev/nvme0n1p3			☐	16 MB	unknown	
/dev/nvme0n1p4	ntfs		☐	320765 MB	292998 MB	
free space			☐	0 MB		
/dev/nvme0n1p5	ntfs		☐	679 MB	587 MB	
free space			☐	189987 MB		

+ − Change...   New Partition Table...   Revert

Device for boot loader installation:

/dev/nvme0n1   SAMSUNG MZALQ512HALU-000L1 (512.1 GB)   ⌄

Quit   Back   Install Now

Installation type

□ free space   ■ nvme0n   [Create partition]   /me0n1p4 (ntfs)   □ free
1.0 MB   554.7 MB   0.8 GB   676.9

Device	Type
/dev/nvme0n1p2	efi
/dev/nvme0n1p3	
/dev/nvme0n1p4	ntfs
free space	
/dev/nvme0n1p5	ntfs
free space	

Create partition   ✕

Size: 2048   —   +   MB

Type for the new partition: ● Primary
                              ○ Logical

Location for the new partition: ● Beginning of this space
                                  ○ End of this space

Use as: swap area   ⌄

                        Cancel   OK

+   —   Change..   tion Table..   Revert

Device for boot loader inst...

/dev/nvme0n1   SAMSUNG MZALQ512HALU-000L1 (512.1 GB)   ⌄

                                    Quit   Back   Install Now

Install

Installation type

	free space		nvme0n1p1 (ntfs)		nvme0n1p2 (fat32)		nvme0n1p3 (unknown)		nvme0n1p4 (ntfs)	free
	1.0 MB		554.7 MB		104.9 MB		16.8 MB			

Device	Type	Mount point	Format?	Size	Used	System
/dev/nvme0n1p3			☐	16 MB	unknown	
/dev/nvme0n1p4	ntfs		☐	320765 MB	292998 MB	
free space			☐	0 MB		
/dev/nvme0n1p5	ntfs		☐	679 MB	587 MB	
/dev/nvme0n1p6	swap		☐	2047 MB	unknown	
free space			▮	187939 MB		

[+] [−] [Change...]

Device for boot loader installation:

[/dev/nvme0n1   SAMSUNG MZALQ512HALU-000L1 (512.1 GB)]

Create partition   ✕

Size: 187940 —   +   MB

Type for the new partition: ● Primary
                               ○ Logical

Location for the new partition: ● Beginning of this space
                                  ○ End of this space

Use as: Ext4 journaling file system   ⌄

Mount point: /   ⌄

[Cancel]   [OK]

Quit   Back   Install Now

Install

Installation type

☐ free space	■ nvme0n1p1 (ntfs)	■ nvme0n1p2 (fat32)	■ nvme0n1p3 (unknown)	■ nvme0n1p4 (ntfs)	☐ free
1.0 MB	554.7 MB	104.9 MB	16.8 MB	320.8 GB	676.9

Device	Type	Mount point	Format?	Size	Used	System
/dev/nvme0n1p4	ntfs		☐	320765 MB	292998 MB	
free space			☐	0 MB		
/dev/nvme0n1p5	ntfs		☐	679 MB	587 MB	
/dev/nvme0n1p6	swap		☐	2047 MB	unknown	
/dev/nvme0n1p7	ext4	/	☑	187939 MB	unknown	
free space			☐	0 MB		

+   —   Change...   New Partition Table...   Revert

Device for boot loader installation:

/dev/nvme0n1   SAMSUNG MZALQ512HALU-000L1 (512.1 GB)

Quit   Back   Install Now

Install

Something else

☐ **free space**
1.0 MB
■ **nvme0n1p1 (ntfs)**
554.7 MB
■ **nvme0n1p2 (fat32)**
104.9 MB
■ **nvme0n1p3 (unknown)**
16.8 MB
■ **nvme0n1p4 (ntfs)**
320.8 GB
☐ **free**
676.9

Device

/dev/nv
free spa
/dev/nv
/dev/nv
/dev/nv
free spa

Device fo

/dev/nv

Write the changes to disks?

If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

The partition tables of the following devices are changed:
/dev/nvme0n1

The following partitions are going to be formatted:
partition #6 of /dev/nvme0n1 as swap
partition #7 of /dev/nvme0n1 as ext4

Go Back   Continue

Revert

Quit   Back   Install Now

Install

Where are you?

Kolkata

Back   Continue

Install

Who are you?

Your name: **sunbeam** ✓

Your computer's name: **nilesh-pc** ✓

The name it uses when it talks to other computers.

Pick a username: **sunbeam** ✓

Choose a password: **●●●●●●●** Weak password

Confirm your password: **●●●●●●●** ✓

○ Log in automatically

● Require my password to log in

☐ Use Active Directory

You'll enter domain and other details in the next step.

Back   Continue
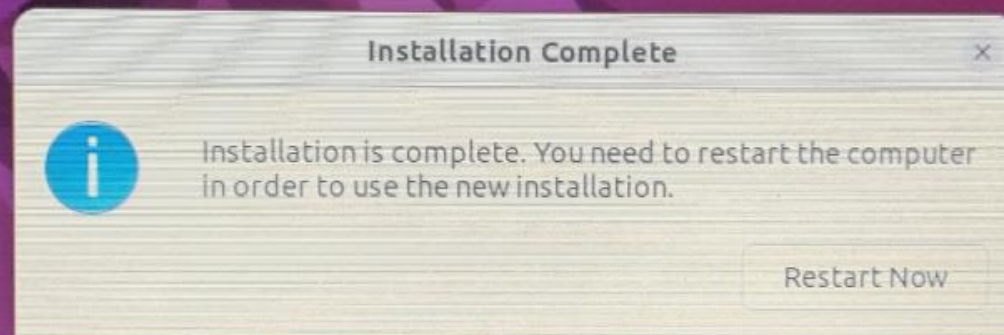
Installation Complete

Installation is complete. You need to restart the computer in order to use the new installation.

Restart Now

Please remove the installation medium, then press ENTER:
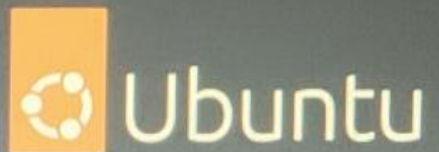
```
*Ubuntu
 Advanced options for Ubuntu
 Windows Boot Manager (on /dev/nvme0n1p2)
 UEFI Firmware Settings
```

sunbeam

Password

Livepatch

Canonical Livepatch helps keep your computer secure, by applying some updates that would normally require restarting.

Would you like to set up Livepatch now?

Set Up Livepatch... | Legal notice

Help improve Ubuntu

Ubuntu can report information that helps developers improve it. This includes things like the computer model, what software is installed, and the approximate location you chose (Asia/Kolkata).

Show the First Report   Legal notice

Would you like to send this information?

○ Yes, send system info to Canonical

● No, don't send system info

Welcome to Ubuntu

Privacy

Location Services

Allows applications to determine your geographical location. An indication is shown when location services are in use.

Uses Mozilla Location Service: Privacy Policy

Privacy controls can be changed at any time from the Settings application.

Dec 20 19:55

Terminal

Characters   Interlinear Annotation **Terminator** U+FFFB, ▮: Interlinear Annotation **Termina**...

Soyombo **Terminal** Mark-1 U+11AA1, ▮: Soyombo **Terminal** Mar...

Soyombo **Terminal** Mark-2 U+11AA2, ▮: Soyombo **Terminal** Mar...

SSD

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

sunbeam@nilesh-pc:~$ sudo apt update
```

sunbeam@nilesh-pc: ~
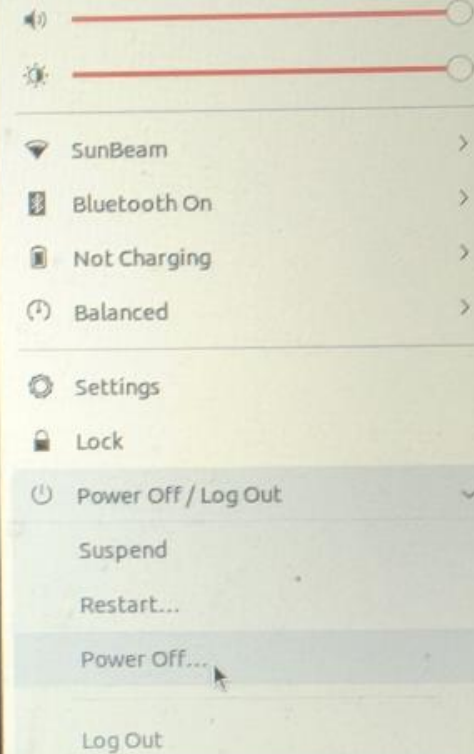
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

sunbeam@nilesh-pc:~$ sudo apt update
[sudo] password for sunbeam:
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
236 packages can be upgraded. Run 'apt list --upgradable' to see them.
sunbeam@nilesh-pc:~$

SunBeam

Bluetooth On

Not Charging

Balanced

Settings

Lock

Power Off / Log Out

Suspend

Restart...

Power Off...

Log Out

Thank You!

Sunbeam Infotech