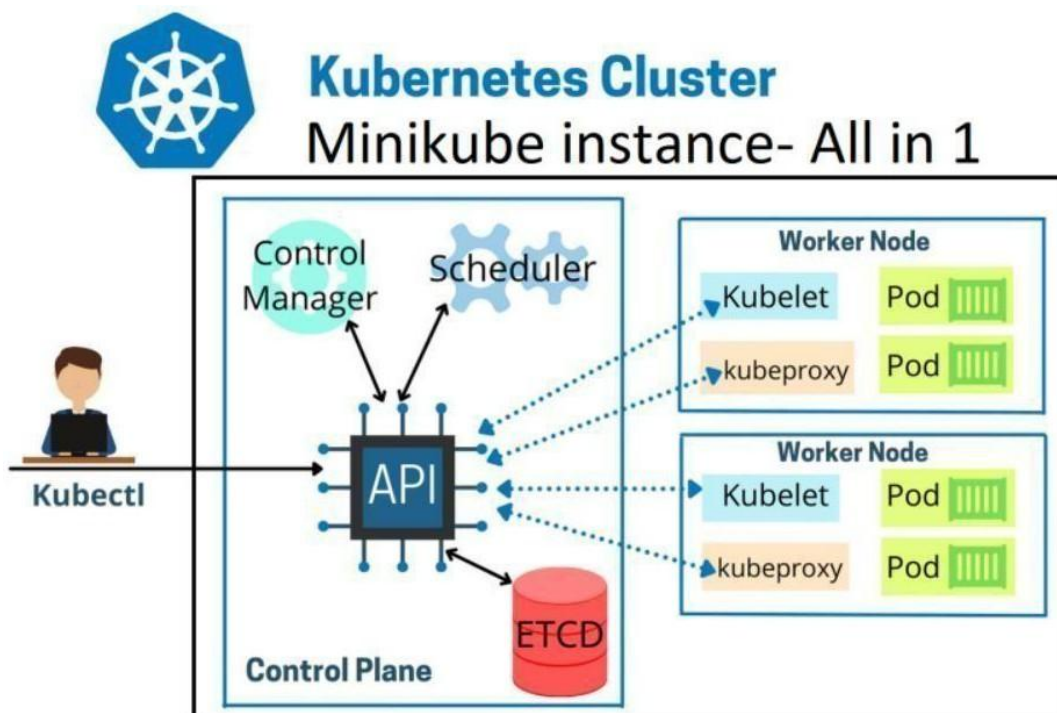


KUBERNETES MINIKUBE INSTALLATION



Minikube install karne se pehle jo **tools** diye gaye hain, unko **system** se **uninstall** karo. Aap **manually** ya **commands** se bhi kar sakte ho. Hum **installation Chocolatey** se karenge, agar aap aisa nahi karenge, to **installation** ke waqt **error** aayega aur **Minikube** install nahi hoga. Isliye pehle ye **tools** **uninstall** karo. **Recommend** ye karoga ke **System Format** kardo.

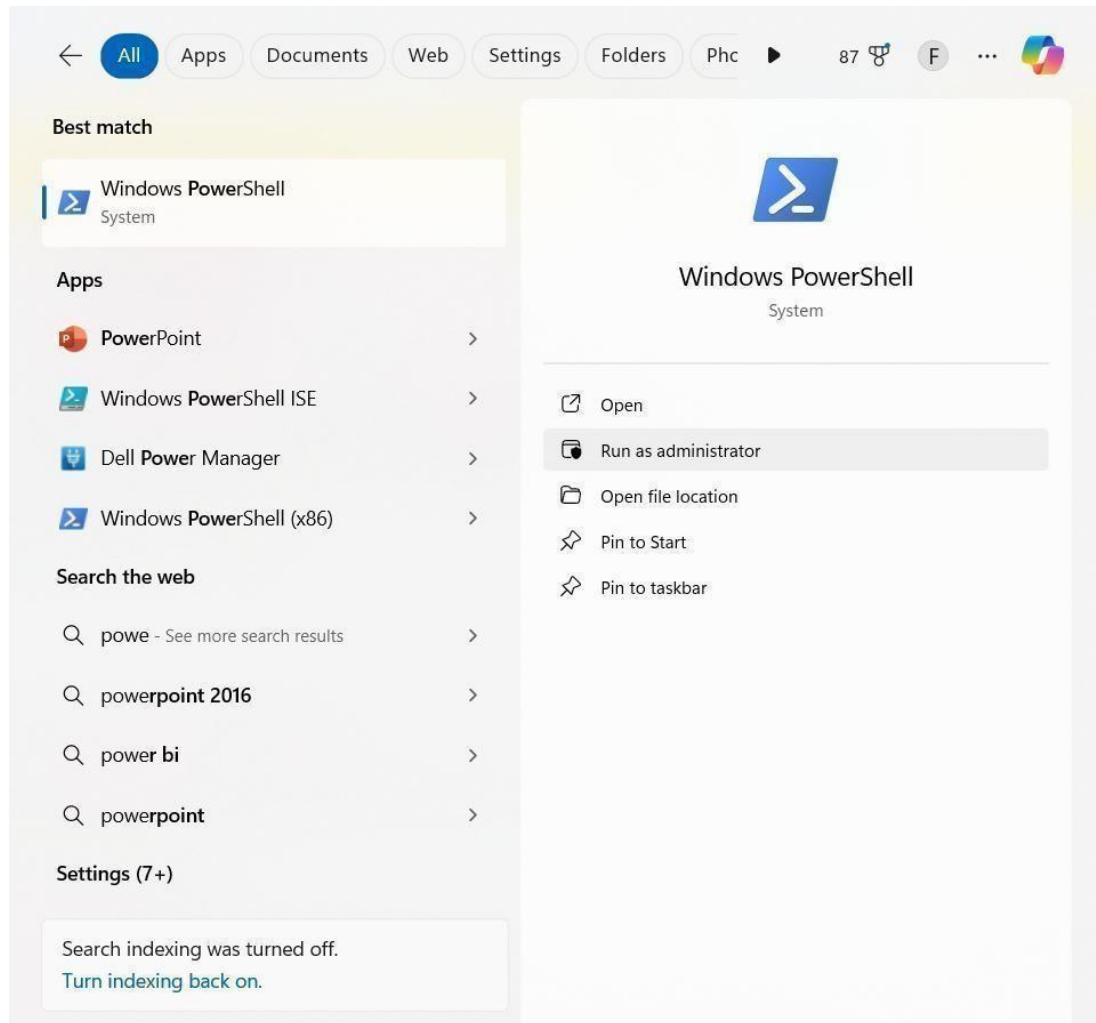
Minikube install karne ke liye ye **Tools** install karne honge

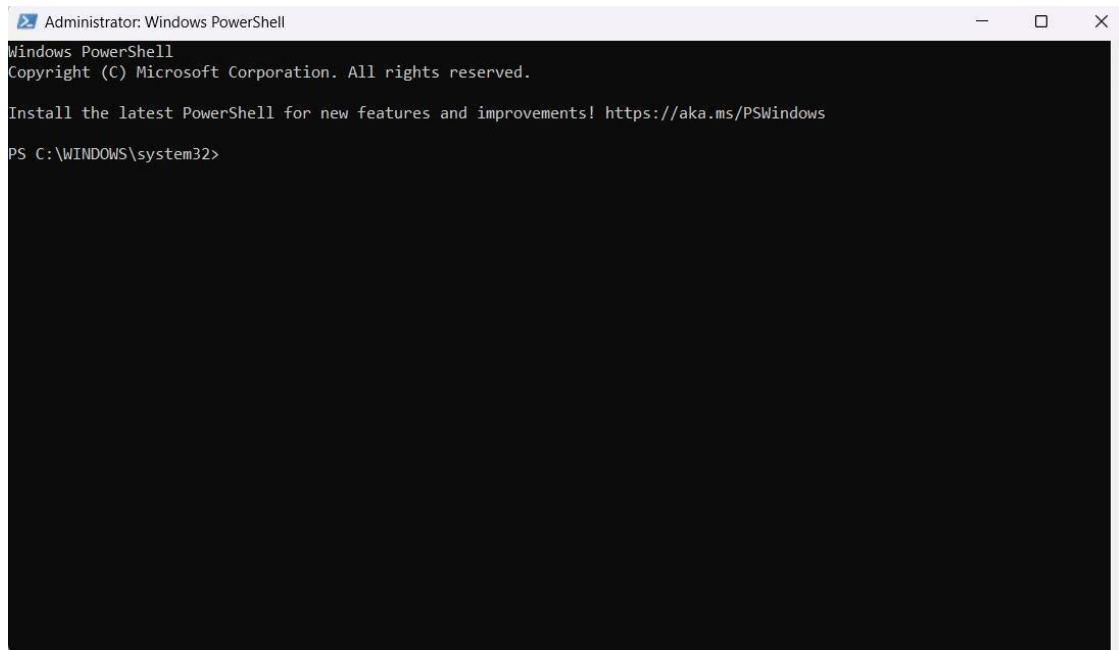
1. **Chocolatey** Install karo
2. **Oracle VirtualBox** Install karo
3. **Kubectl** Install karo
4. **WSL** Install karo (Future me iski zaroorat hogi)
5. **Git** Install karo (Future me iski zaroorat hogi)
6. **Minikube** Install karo

Yeh rahi step-by-step Minikube Cluster creation ki guide Roman Urdu mein

Step 1: Windows PowerShell ko administrator Mode me Open karein or Chocolatey install karein

YE KUCH ISTARHA LAGEGA





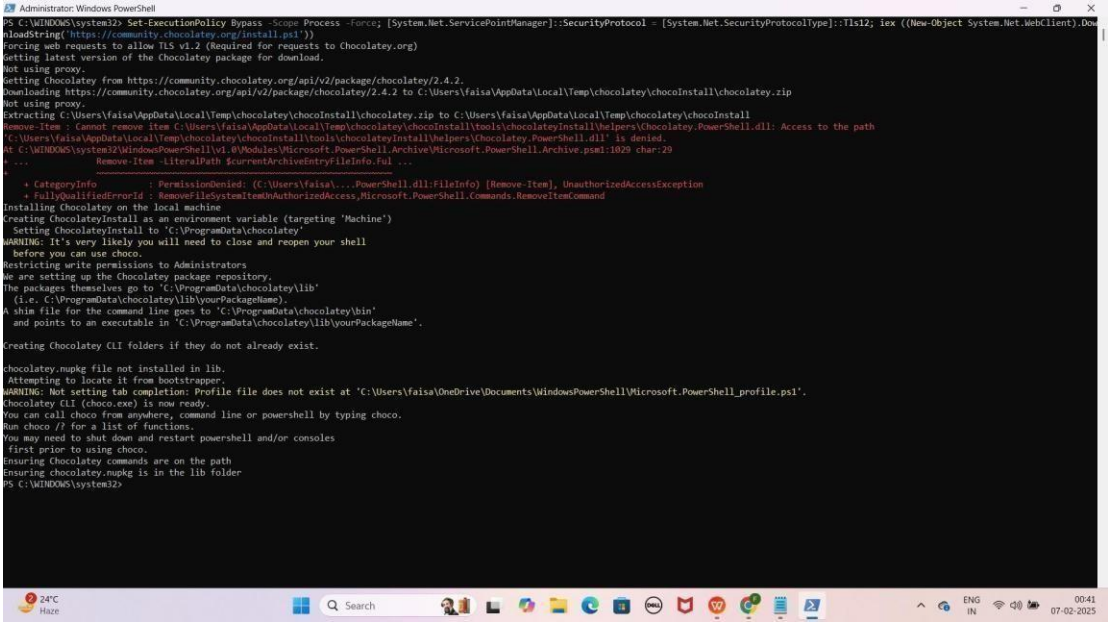
Chocolatey

Chocolatey ek package manager hai jo Windows pe software install karna easy banata hai.

1. Chocolatey install karne ke liye ye command run karo

```
Set-ExecutionPolicy Bypass -Scope Process -Force;  
[System.Net.ServicePointManager]::SecurityProtocol =  
[System.Net.SecurityProtocolType]::Tls12; iex ((New-Object  
System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.  
ps1'))
```

YE KUCH ISTARHA LAGEGA

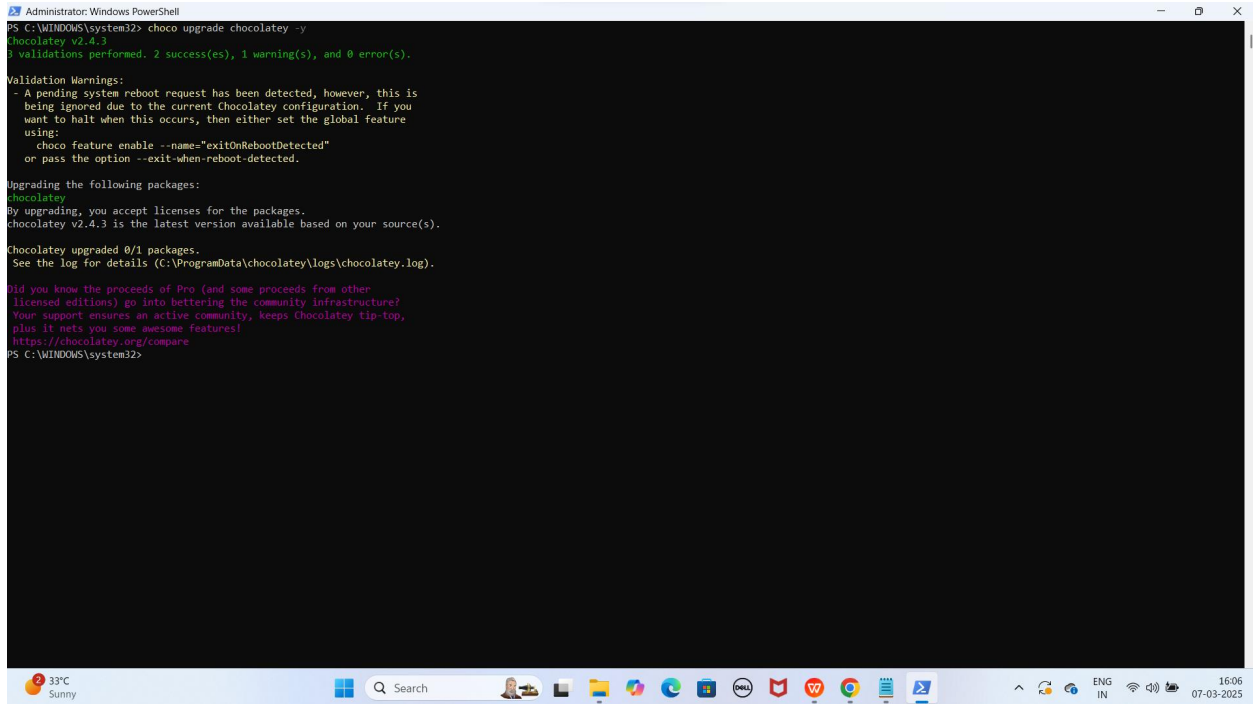


```
Administrator: Windows PowerShell  
PS C:\WINDOWS\system32> Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.SecurityProtocolType]::Tls12; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))  
Forcing web requests to allow TLS v1.2 (Required for requests to Chocolatey.org)  
Getting latest version of the Chocolatey package for download.  
Not using proxy.  
Getting Chocolatey from https://community.chocolatey.org/api/v2/package/chocolatey/2.4.2.  
Downloading https://community.chocolatey.org/api/v2/package/chocolatey/2.4.2 to C:\Users\faiza\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip  
Not using proxy.  
Extracting C:\Users\faiza\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\faiza\AppData\Local\Temp\chocolatey\chocoInstall  
Remove-Item : Cannot remove item C:\Users\faiza\AppData\Local\Temp\chocolatey\chocoInstall\tools\chocolateyinstall\helpers\Chocolatey.PowerShell.dll: Access to the path  
C:\Users\faiza\AppData\Local\Temp\chocolatey\chocoInstall\tools\chocolateyinstall\helpers\Chocolatey.PowerShell.dll is denied.  
At C:\WINDOWS\system32\WindowsPowerShell\v1.0\Modules\Microsoft.PowerShell\Archive\Microsoft.PowerShell.Archive.ps1:1029 char:29  
+ ... Remove-Item -LiteralPath $currentArchiveEntryFileInfo.FullName ...  
+ ~~~~~  
+ CategoryInfo          : PermissionDenied (C:\Users\faiza\AppData\Local\Temp\chocolatey\chocoInstall\tools\chocolateyinstall\helpers\Chocolatey.PowerShell.dll:FileInfo) [Remove-Item], UnauthorizedAccessException  
+ FullyQualifiedErrorId : RemoveFileSystemItemUnauthorizedAccess,Microsoft.PowerShell.Commands.RemoveItemCommand  
Installing Chocolatey on the local machine  
Creating ChocolateyInstall as an environment variable (targeting 'Machine')  
Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'  
WARNING: It's very likely you will need to close and reopen your shell  
before you can use choco.  
Restricting write permissions to Administrators  
We are setting up the Chocolatey package repository.  
The packages themselves go to 'C:\ProgramData\chocolatey\lib'  
(i.e., C:\ProgramData\chocolatey\lib\yourPackageName).  
A .chocolatey file for the command line goes to 'C:\ProgramData\chocolatey\bin'  
and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.  
Creating Chocolatey CLI folders if they do not already exist.  
chocolatey.mpkg file not installed in lib.  
Attempting to locate it from bootstrapper.  
WARNING: Not setting tab completion: Profile file does not exist at 'C:\Users\faiza\OneDrive\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.  
Chocolatey CLI (choco.exe) is now ready.  
You can call choco from anywhere, command line or powershell by typing choco.  
Run choco /? for a list of functions.  
You may need to shut down and restart powershell and/or consoles  
first prior to using choco.  
Ensuring Chocolatey commands are on the path  
Ensuring chocolatey.mpkg is in the lib folder  
PS C:\WINDOWS\system32>
```

2. Chocolatey update karne ke liye ye command run kariye

choco upgrade chocolatey -y

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> choco upgrade chocolatey -y
Chocolatey v2.4.3
3 validations performed. 2 success(es), 1 warning(s), and 0 error(s).

Validation Warnings:
- A pending system reboot request has been detected, however, this is
  being ignored due to the current Chocolatey configuration. If you
  want to halt when this occurs, then either set the global feature
  using:
    choco feature enable --name="exitOnRebootDetected"
  or pass the option --exit-when-reboot-detected.

Upgrading the following packages:
chocolatey
By upgrading, you accept licenses for the packages.
chocolatey v2.4.3 is the latest version available based on your source(s).

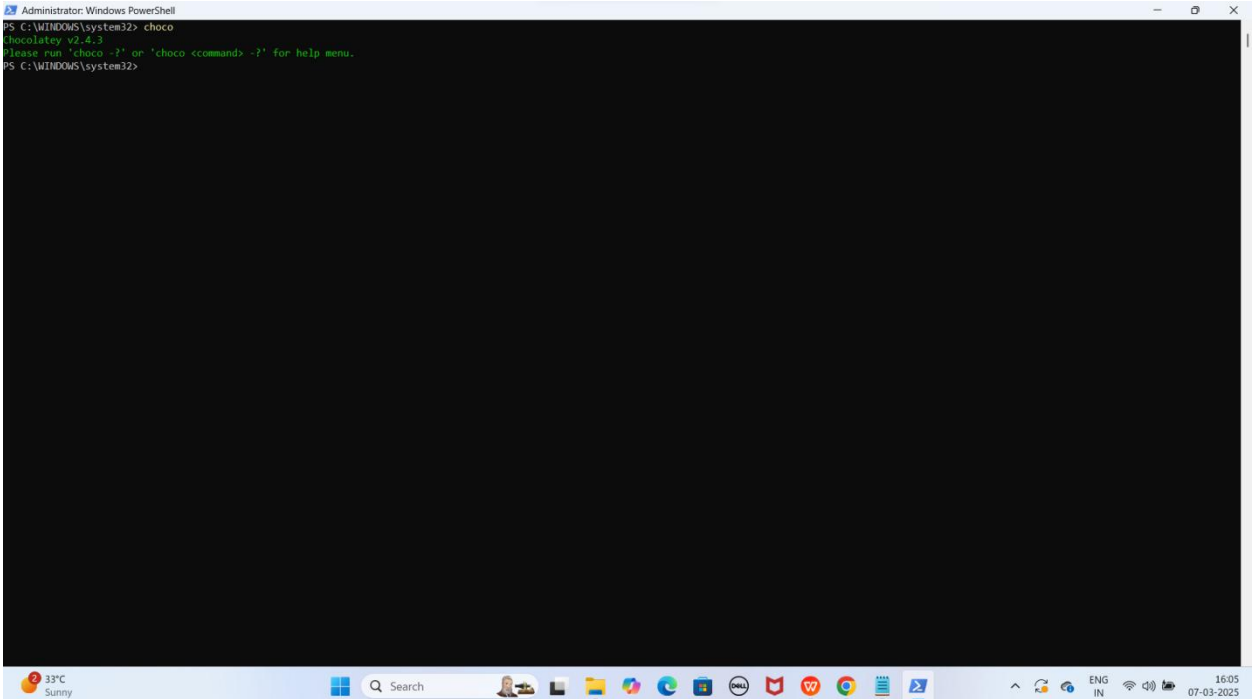
Chocolatey upgraded 0/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

Did you know the proceeds of Pro (and some proceeds from other
licensed editions) go into bettering the community infrastructure?
Your support ensures an active community, keeps Chocolatey tip-top,
plus it nets you some awesome features!
https://chocolatey.org/compare
PS C:\WINDOWS\system32>
```

3. Check karo Chocolatey install hua ya nahi ye command run kariye

choco

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> choco
chocolatey v2.4.3
Please run 'choco -?' or 'choco <command> -?' for help menu.
PS C:\WINDOWS\system32>
```

The screenshot shows a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The command prompt is at "PS C:\WINDOWS\system32>". The user has entered the command "choco". The output shows "chocolatey v2.4.3" and "Please run 'choco -?' or 'choco <command> -?' for help menu." The terminal window is overlaid on a Windows 10 desktop with a taskbar at the bottom showing various application icons and system status information like "33°C Sunny" and "16:05 07-03-2025".

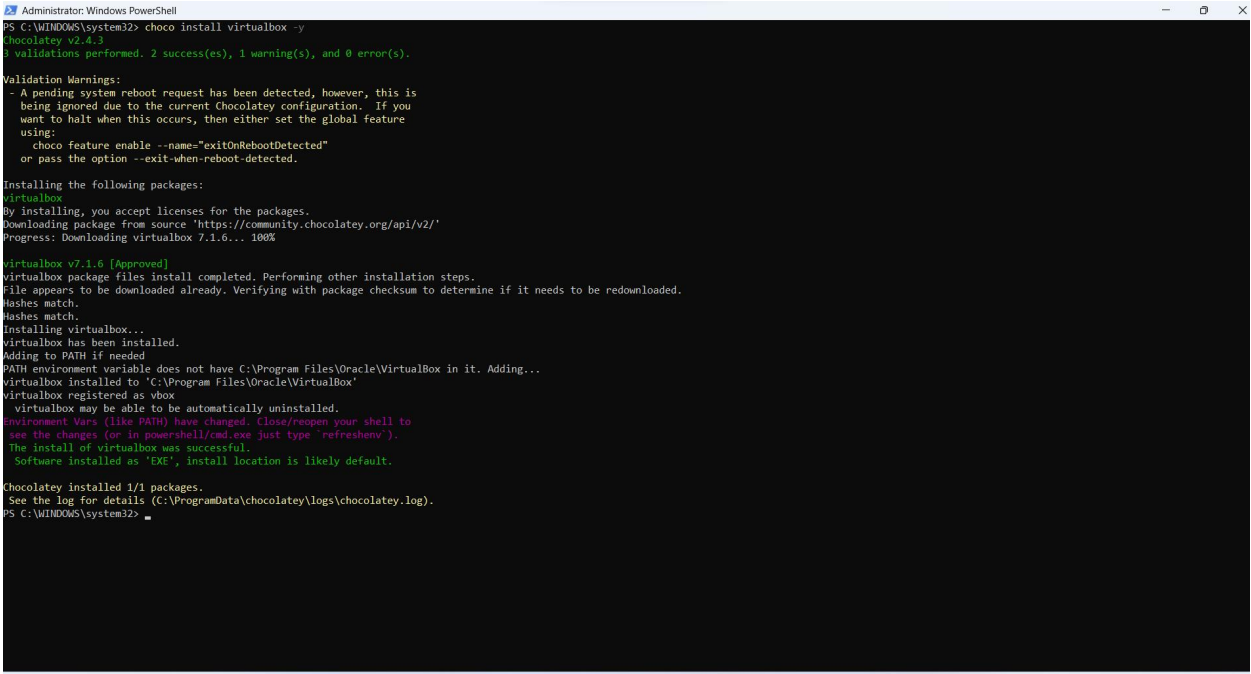
Step 2: Oracle VirtualBox Install Karna

VirtualBox ek virtualization tool hai jo Minikube ke liye zaroori hai

1. Install karne ke liye ye command run kariye

```
choco install virtualbox -y --force
```

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> choco install virtualbox -y
Chocolatey v2.4.3
3 validations performed. 2 success(es), 1 warning(s), and 0 error(s).

Validation Warnings:
- A pending system reboot request has been detected, however, this is
  being ignored due to the current Chocolatey configuration. If you
  want to halt when this occurs, then either set the global feature
  using:
    choco feature enable --name="exitOnRebootDetected"
  or pass the option --exit-when-reboot-detected.

Installing the following packages:
virtualbox
By installing, you accept licenses for the packages.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading virtualbox 7.1.6... 100%

virtualbox v7.1.6 [Approved]
virtualbox package files install completed. Performing other installation steps.
File appears to be downloaded already. Verifying with package checksum to determine if it needs to be redownloaded.
Hashes match.
Hashes match.
Installing virtualbox...
virtualbox has been installed.
Adding to PATH if needed
PATH environment variable does not have C:\Program Files\Oracle\VirtualBox in it. Adding...
virtualbox installed to 'C:\Program Files\Oracle\VirtualBox'
virtualbox registered as vbox
virtualbox may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The install of virtualbox was successful.
Software installed as 'EXE', install location is likely default.

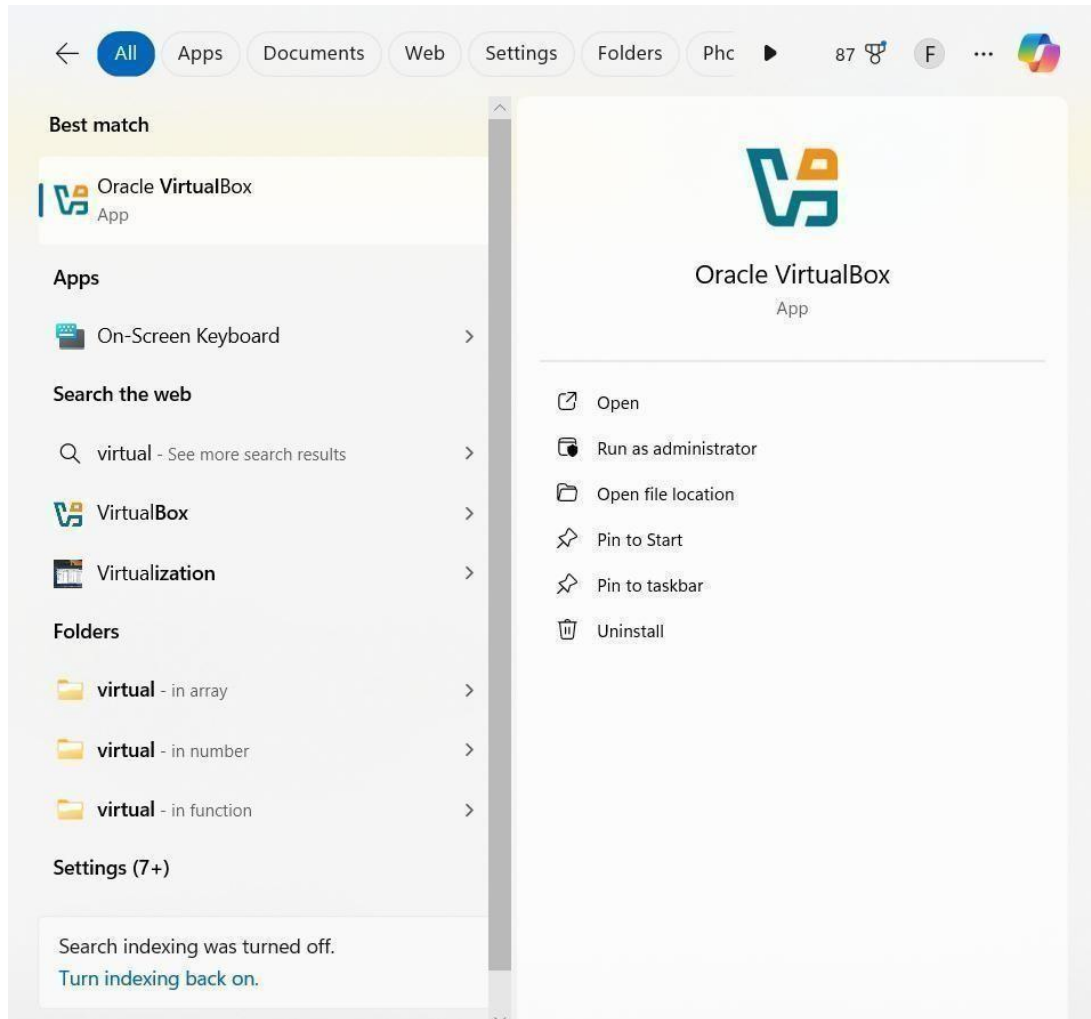
Chocolatey installed 1/1 packages.
See the log for details (c:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\WINDOWS\system32>
```

NOTE: Agar VirtualBox installation ke waqt koi error aaye, to same command dobara run karein. Agar phir bhi error aaye, to check karein ke VirtualBox properly install hua hai ya nahi. Agar install ho chuka hai lekin error phir bhi aa raha hai, to VirtualBox ko uninstall karke dobara install karein aur phir command run karein.

2. Check karne ke liye

Windows search bar me "**VirtualBox**" likho, agar show ho raha hai toh install hogaya.

YE KUCH ISTARHA LAGEGA



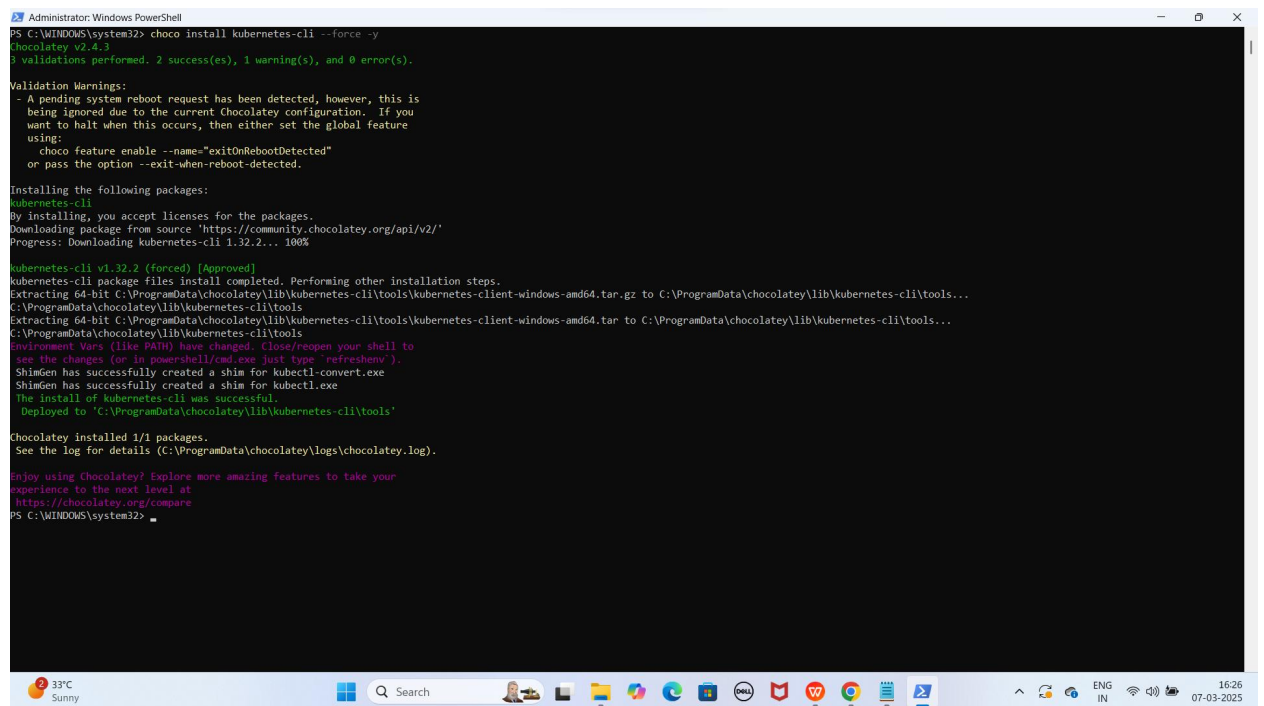
Step 3: Kubectl Install Karna

Kubectl Kubernetes clusters ko **manage** karne ke liye use hota hai.

1. Install karne ke liye ye command run kariye

choco install kubernetes-cli --force -y

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> choco install kubernetes-cli --force -y
Chocolatey v2.4.3
3 validations performed. 2 success(es), 1 warning(s), and 0 error(s).

Validation Warnings:
- A pending system reboot request has been detected, however, this is
  being ignored due to the current Chocolatey configuration. If you
  want to halt when this occurs, then either set the global feature
  using:
    choco feature enable --name="exitOnRebootDetected"
  or pass the option --exit-when-reboot-detected.

Installing the following packages:
kubernetes-cli
By installing, you accept licenses for the packages.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading kubernetes-cli 1.32.2... 100%

kubernetes-cli v1.32.2 (forced) [Approved]
kubernetes-cli package files install completed. Performing other installation steps.
Extracting 64-bit C:\ProgramData\chocolatey\lib\kubernetes-cli\tools\kubernetes-client-windows-amd64.tar.gz to C:\ProgramData\chocolatey\lib\kubernetes-cli\tools...
C:\ProgramData\chocolatey\lib\kubernetes-cli\tools
Extracting 64-bit C:\ProgramData\chocolatey\lib\kubernetes-cli\tools\kubernetes-client-windows-amd64.tar to C:\ProgramData\chocolatey\lib\kubernetes-cli\tools...
C:\ProgramData\chocolatey\lib\kubernetes-cli\tools
Environment vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
ShimGen has successfully created a shim for kubectl-convert.exe
ShimGen has successfully created a shim for kubectl.exe
The install of kubernetes-cli was successful.
Deployed to 'C:\ProgramData\chocolatey\lib\kubernetes-cli\tools'

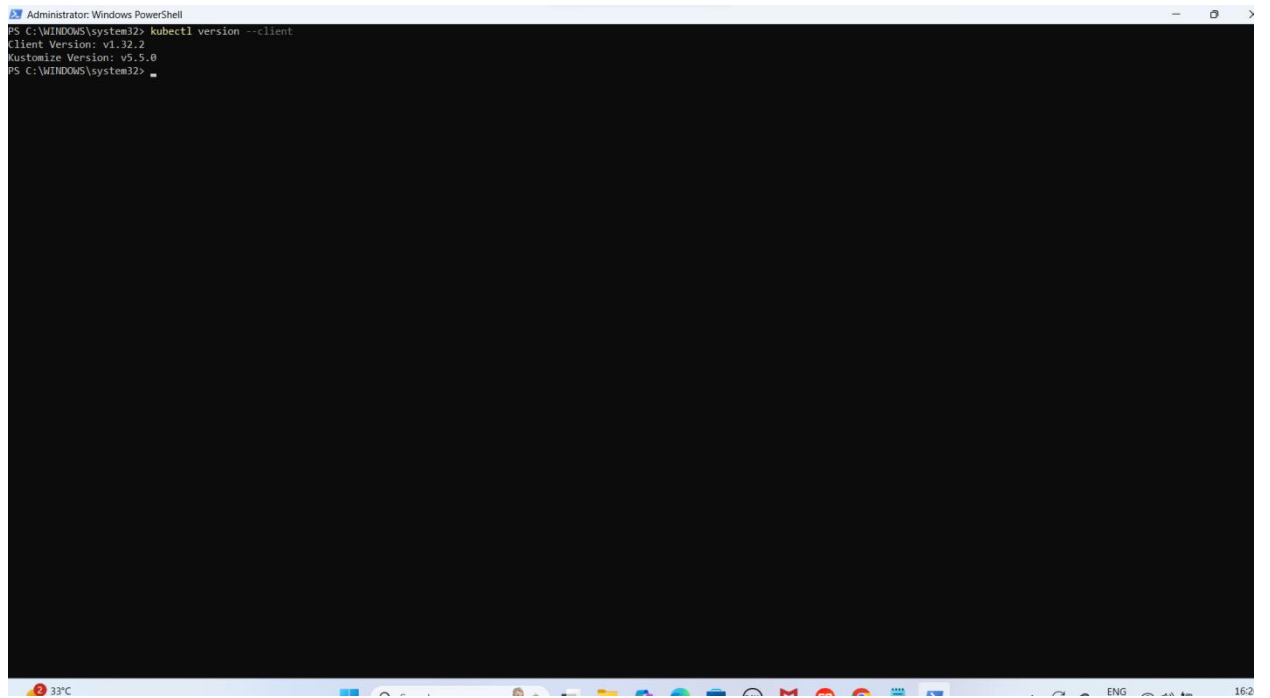
Chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

Enjoy using Chocolatey? Explore more amazing features to take your
experience to the next level at
https://chocolatey.org/compare
PS C:\WINDOWS\system32>
```

2. Check karne ke liye ye command run kariye

kubectl version --client

YE KUCH ISTARHA LAGEGA

A screenshot of a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The terminal shows the command "PS C:\WINDOWS\system32> kubectl version --client" and its output: "Client Version: v1.32.2" and "Kustomize Version: v5.5.0". The terminal window has a black background with white text. The Windows taskbar is visible at the bottom, showing the system tray with a temperature of 33°C, the language set to ENG, and the time 16:2.

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> kubectl version --client
Client Version: v1.32.2
Kustomize Version: v5.5.0
PS C:\WINDOWS\system32>
```

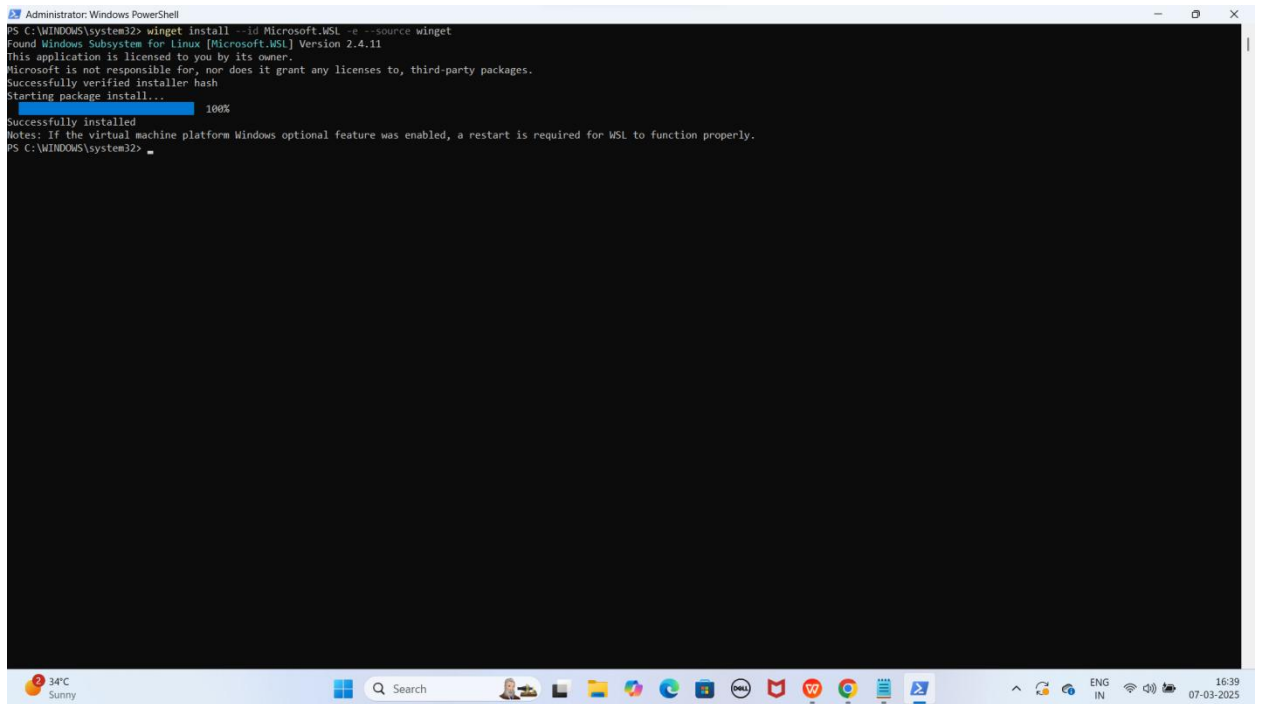
Step 4: WSL Install Karna (Future purpose ke liye)

WSL (Windows Subsystem for Linux) Linux environment provide karta hai.

1. Install karne ke liye ye command run kariye

```
winget install --id Microsoft.WSL -e --source winget
```

YE KUCH ISTARHA LAGEGA

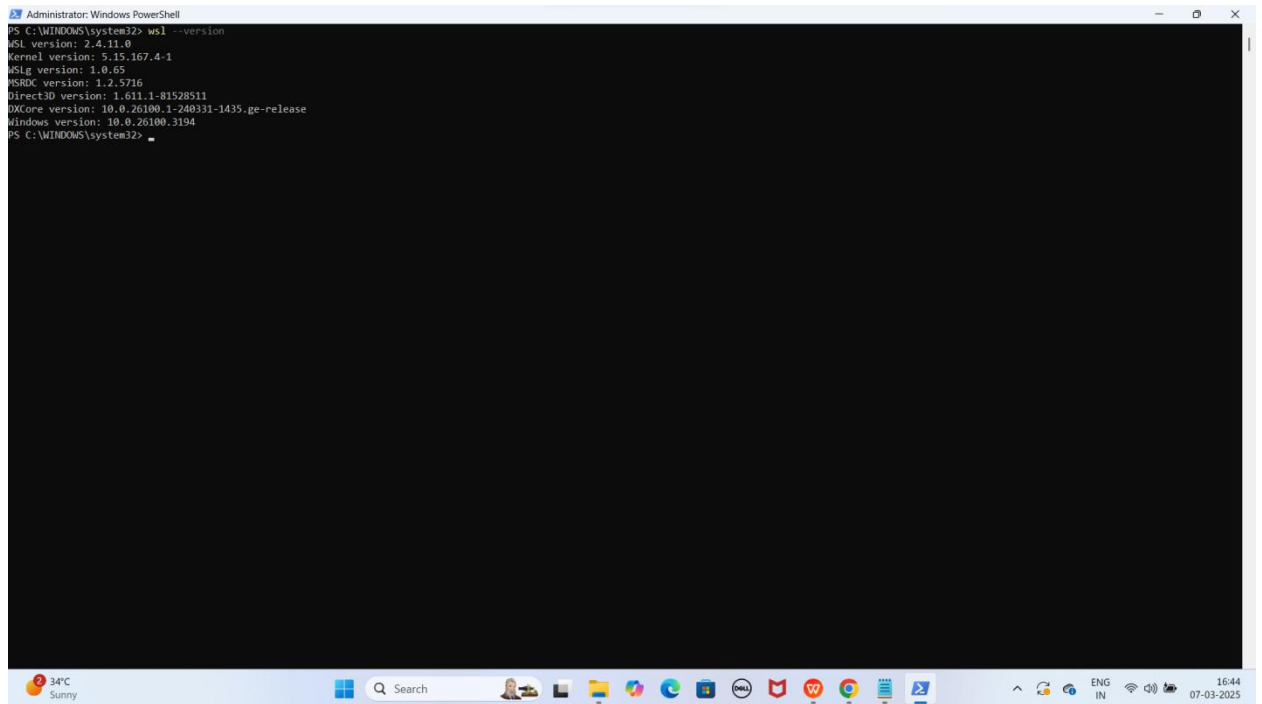


```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> winget install --id Microsoft.WSL -e --source winget
Found Windows Subsystem for Linux [Microsoft.WSL] Version 2.4.11
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Successfully verified installer hash
Starting package install...
[Progress bar] 100%
Successfully installed
Notes: If the virtual machine platform Windows optional feature was enabled, a restart is required for WSL to function properly.
PS C:\WINDOWS\system32>
```

2. Check karne ke liye ye command run kariye

`wsl --version`

YE KUCH ISTARHA LAGEGA



The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The command prompt is at "PS C:\WINDOWS\system32>". The user has entered the command `wsl --version`, and the terminal displays the following output:

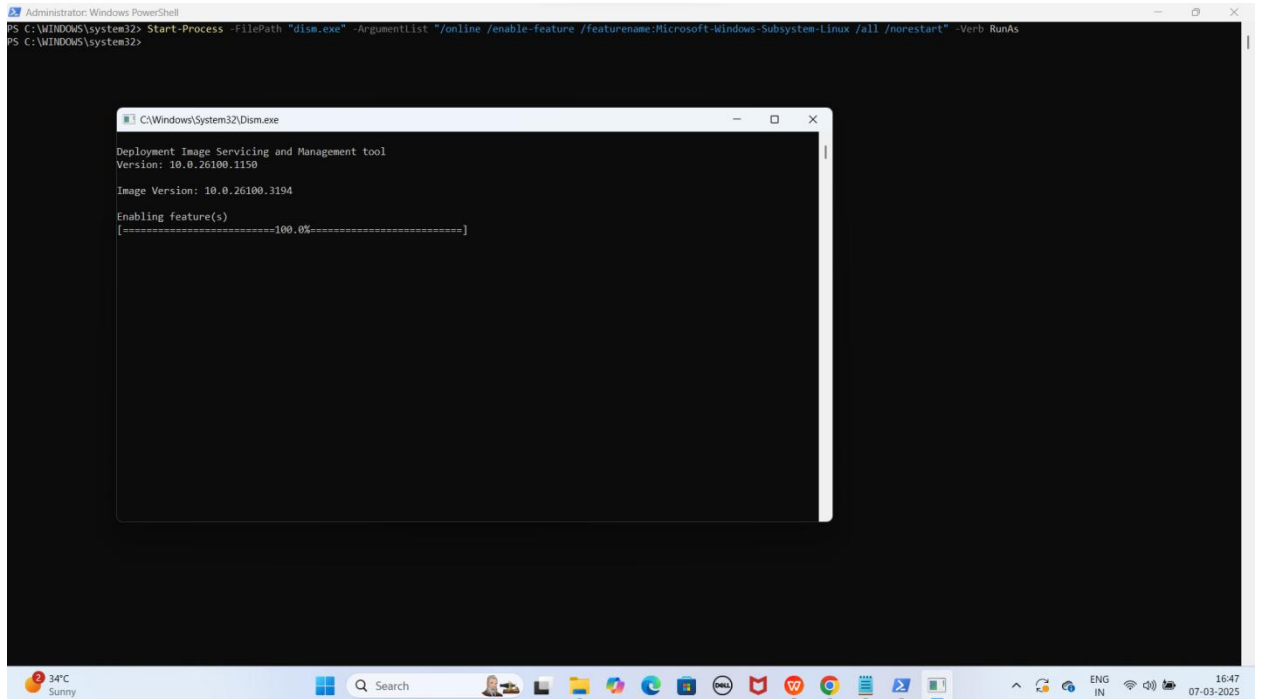
```
wsl version: 2.4.11.0
kernel version: 5.15.167.4-1
wslg version: 1.0.65
WSRDC version: 1.2.5716
Direct3D version: 1.611.1-81528511
DXCore version: 10.0.26100.1-240331-1435.ge-release
Windows version: 10.0.26100.3194
PS C:\WINDOWS\system32>
```

The Windows taskbar is visible at the bottom, showing the search bar, task view button, and various application icons. The system tray on the right indicates the temperature is 34°C, it is sunny, and the date is 07-03-2025 at 16:44.

3. Required features enable karne ke liye ye commands run kariye

Start-Process -FilePath "dism.exe" -ArgumentList "/online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart" -Verb RunAs

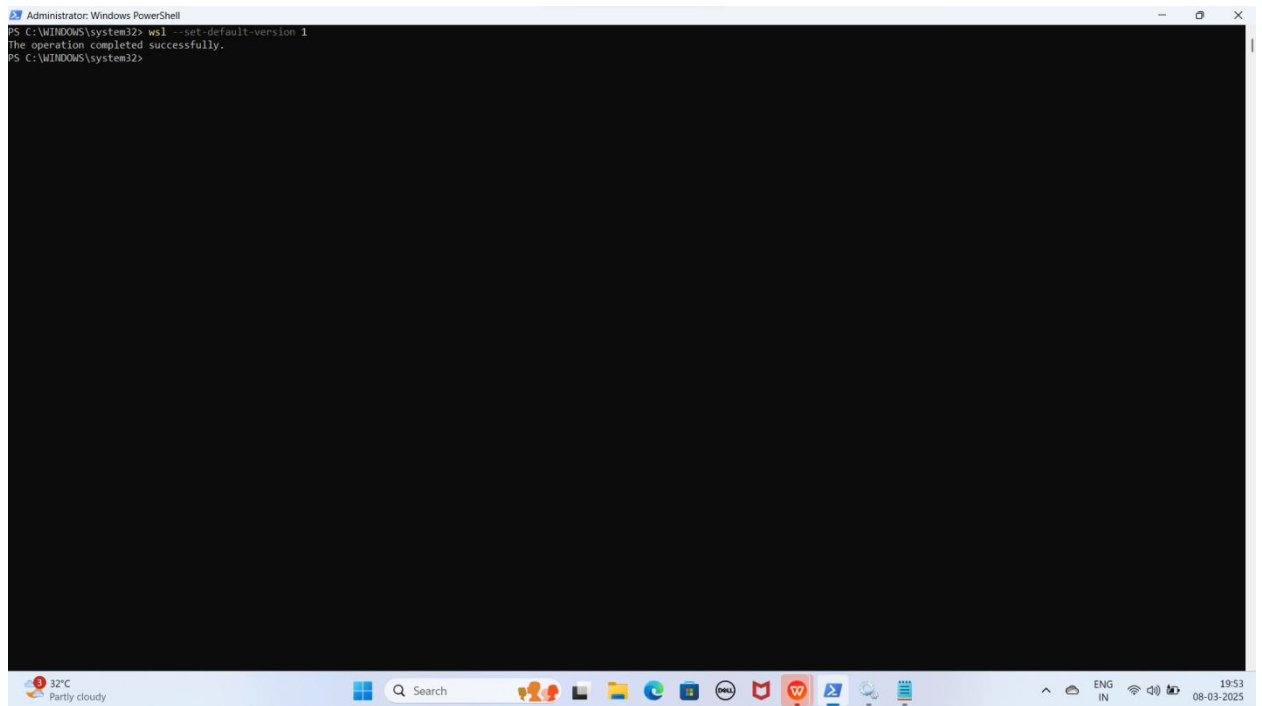
YE KUCH ISTARHA LAGEGA



4. WSL version 1 set karne ke liye ye command run kariye

```
wsl --set-default-version 1
```

YE KUCH ISTARHA LAGEGA



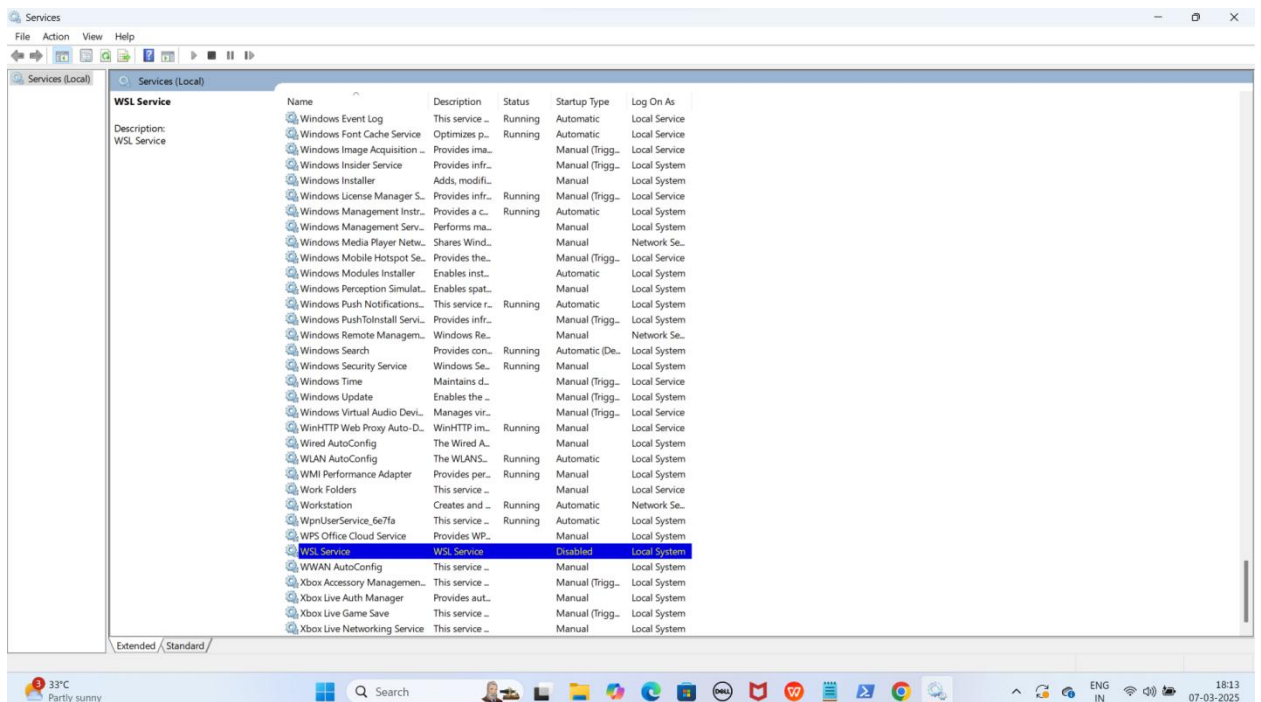
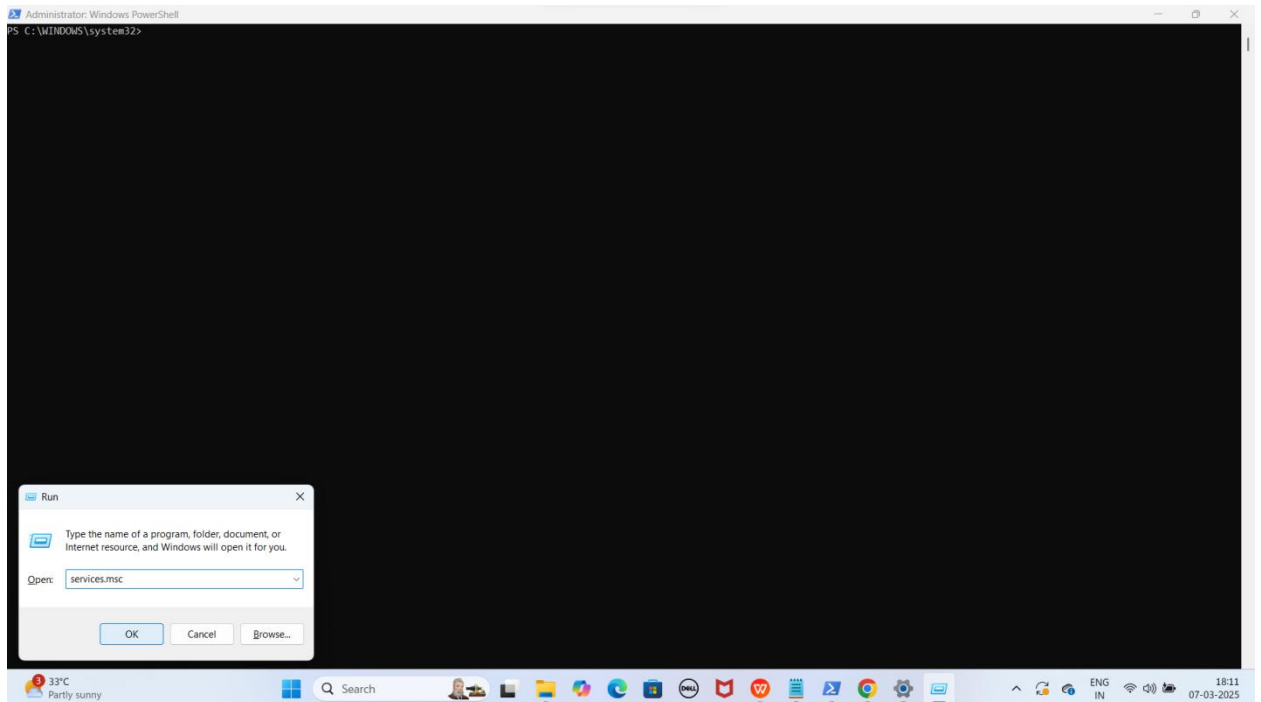
```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> wsl --set-default-version 1
The operation completed successfully.
PS C:\WINDOWS\system32>
```

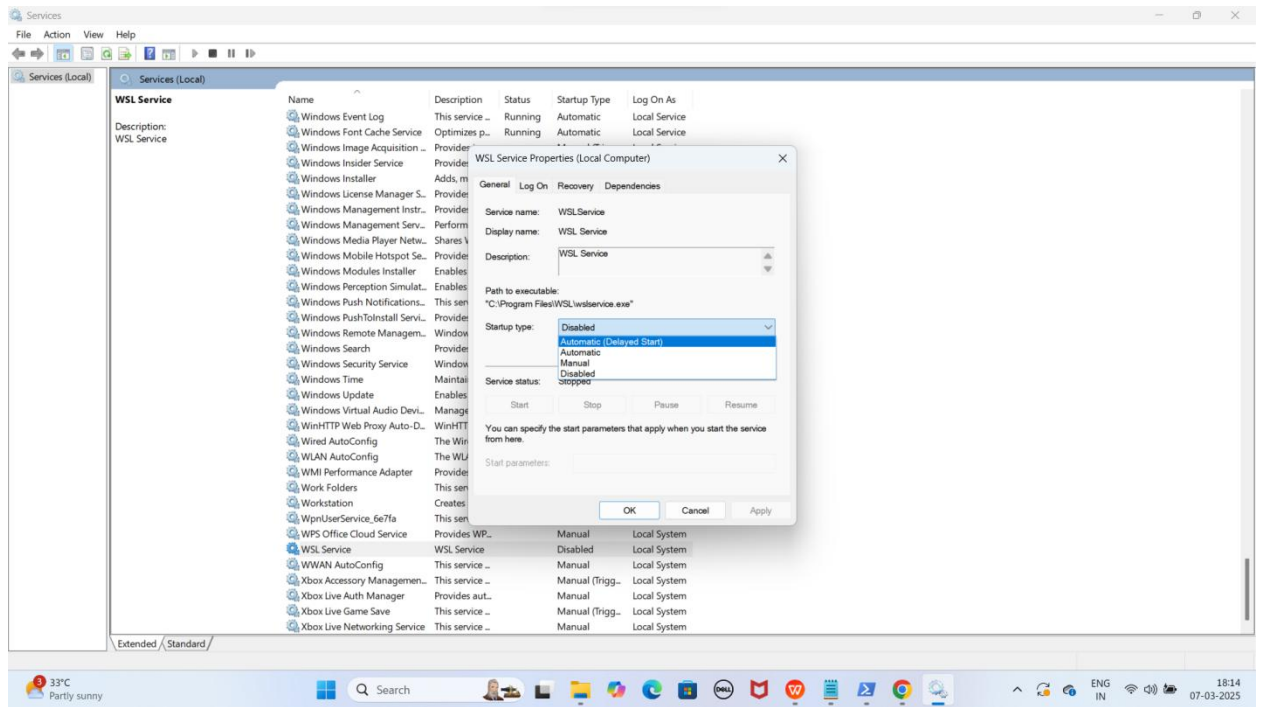
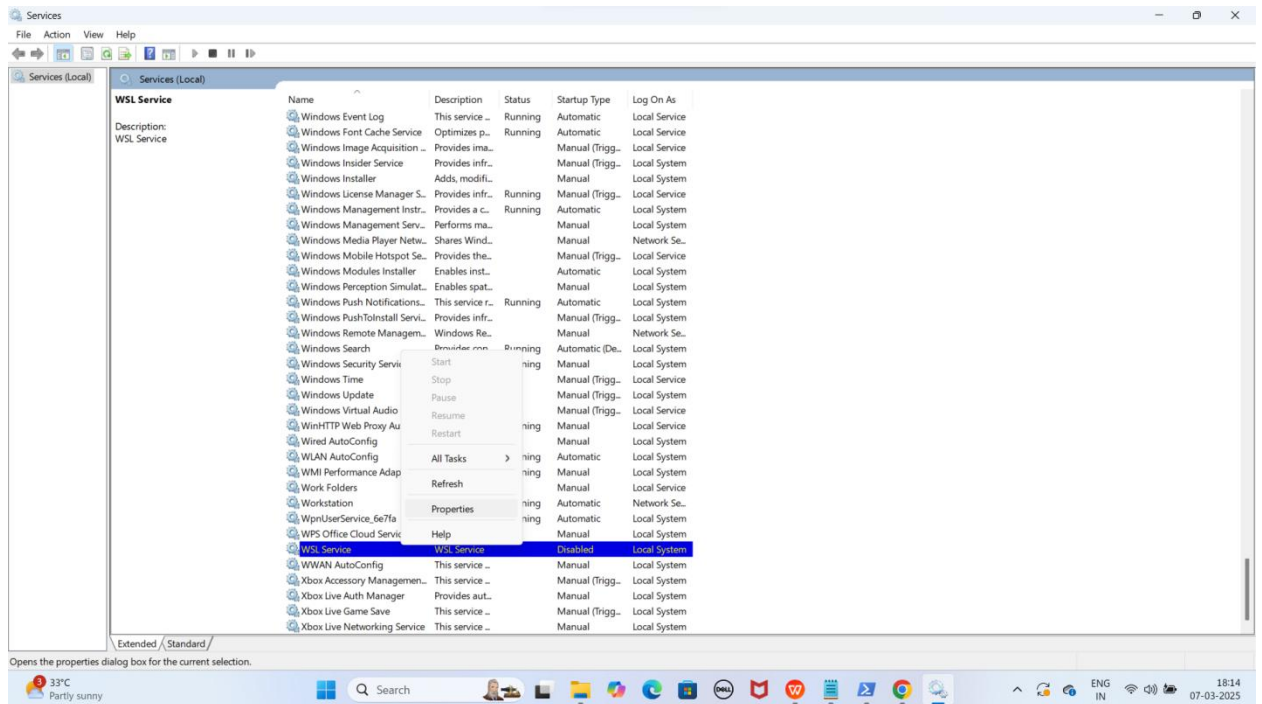
The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The command prompt is at "PS C:\WINDOWS\system32>". The user has entered the command "wsl --set-default-version 1", and the output is "The operation completed successfully." followed by a new prompt "PS C:\WINDOWS\system32>". The Windows taskbar is visible at the bottom, showing the date and time as 19:53 on 08-03-2025.

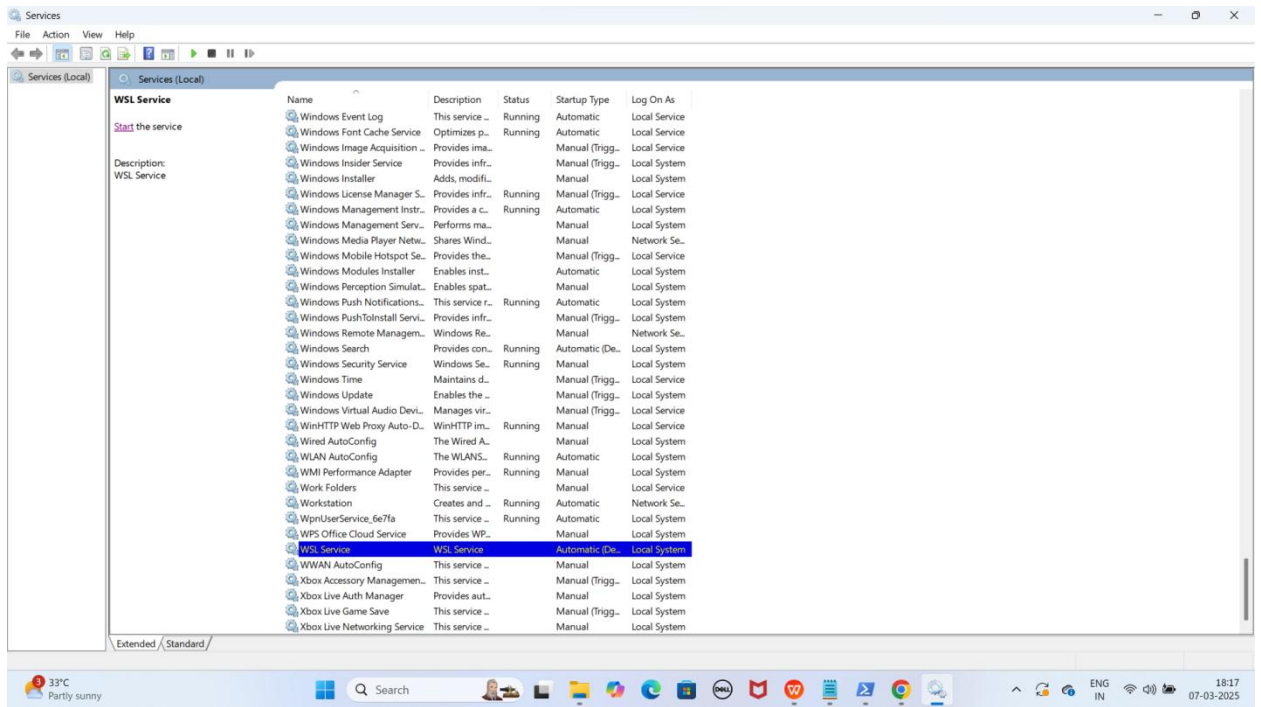
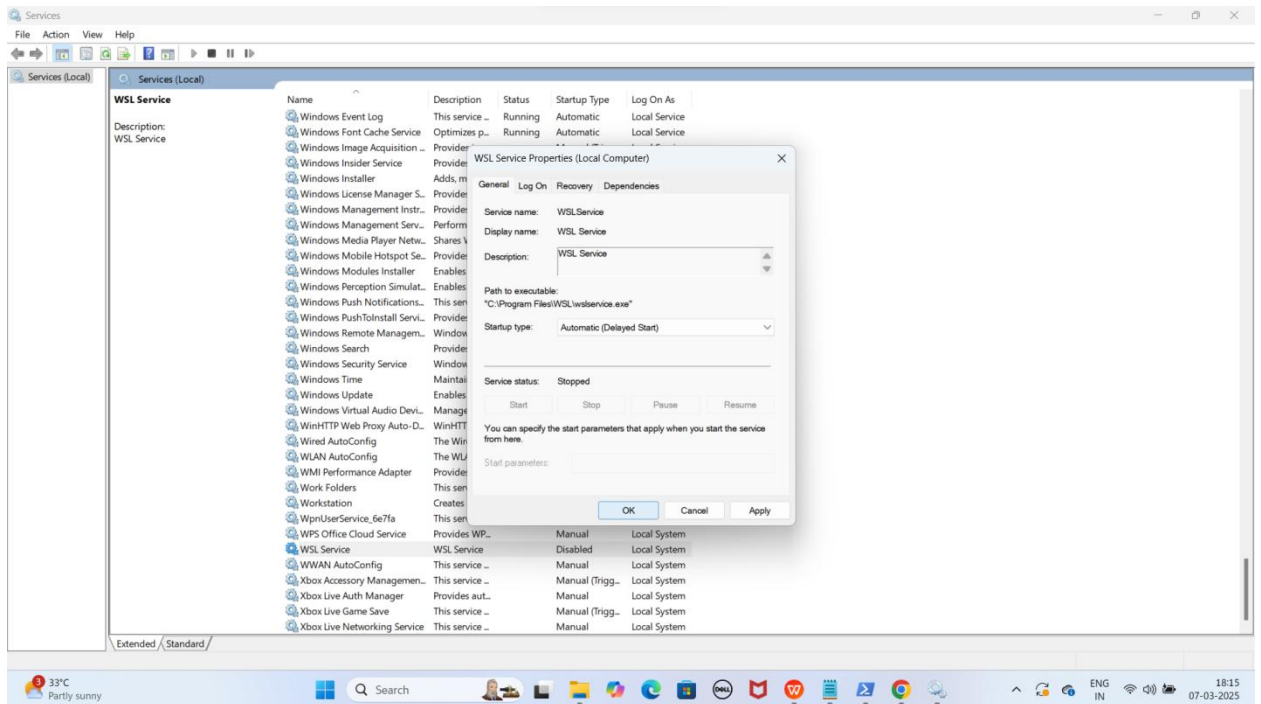
5. Manually Enable WSL Service

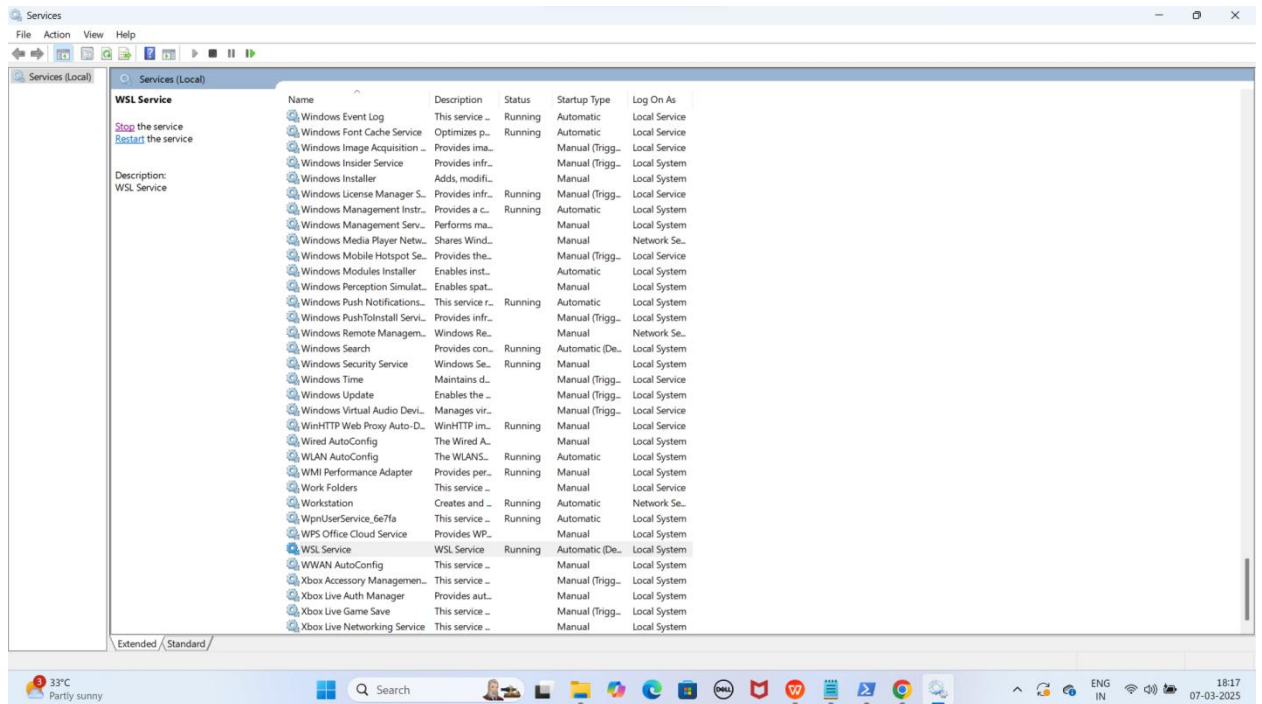
- **Win + R** dabao, **services.msc** likho aur **Enter** karo.
- **"WSL service"** service dhundo.
- Agar **Disabled** hai, to **Right-click** → **Properties** → **Startup type: Automatic(Delayed Start)** → **OK** → **Start** karo.

YE KUCH ISTARHA LAGEGA









NOTE : Ab aapka WSL Service Enable and Start hogaya hai.

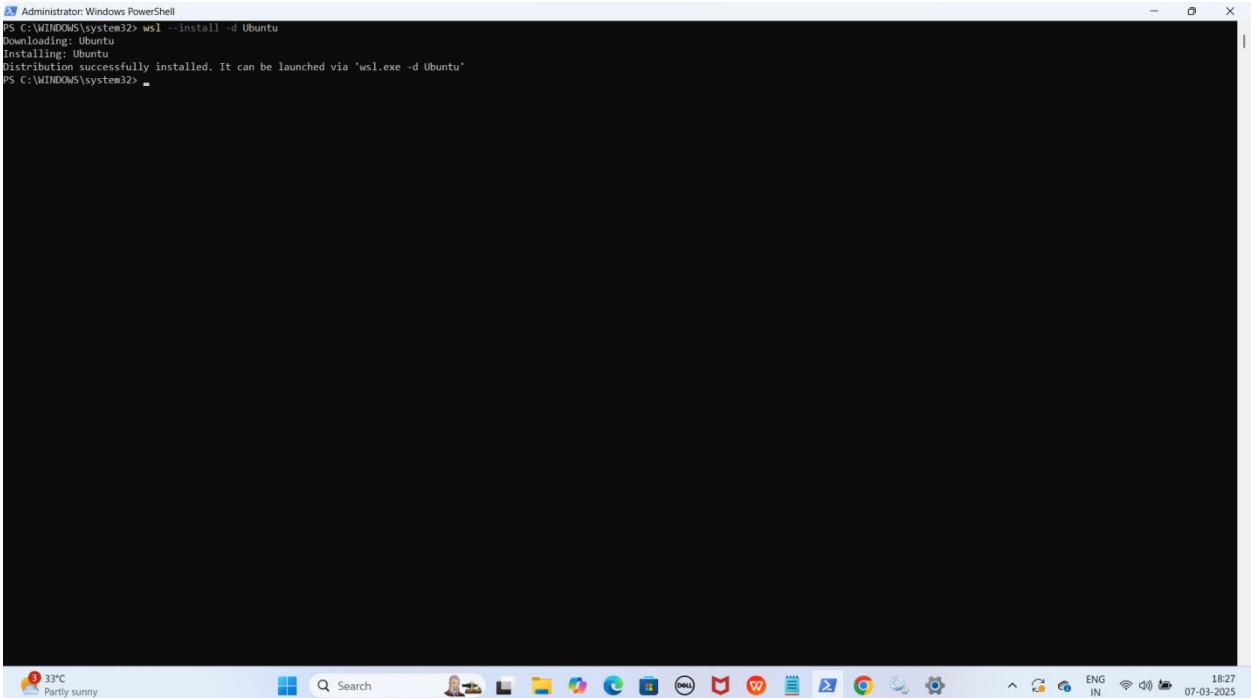
Step 5: Ubuntu Install Kariye Ye WSL Ki Requirement Hai

Ubuntu WSL ke andar ek Linux distribution hai.

1. Install karne ke liye ye command run kariye

```
wsl --install -d Ubuntu-24.04
```

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> wsl --install -d Ubuntu
Downloading: Ubuntu
Installing: Ubuntu
Distribution successfully installed. It can be launched via 'wsl.exe -d Ubuntu'
PS C:\WINDOWS\system32>
```

The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The terminal output displays the command `wsl --install -d Ubuntu` being executed. The process shows "Downloading: Ubuntu", "Installing: Ubuntu", and finally "Distribution successfully installed. It can be launched via 'wsl.exe -d Ubuntu'". The prompt returns to `PS C:\WINDOWS\system32>`. The Windows taskbar at the bottom shows the date as 07-03-2025 and time as 18:27.

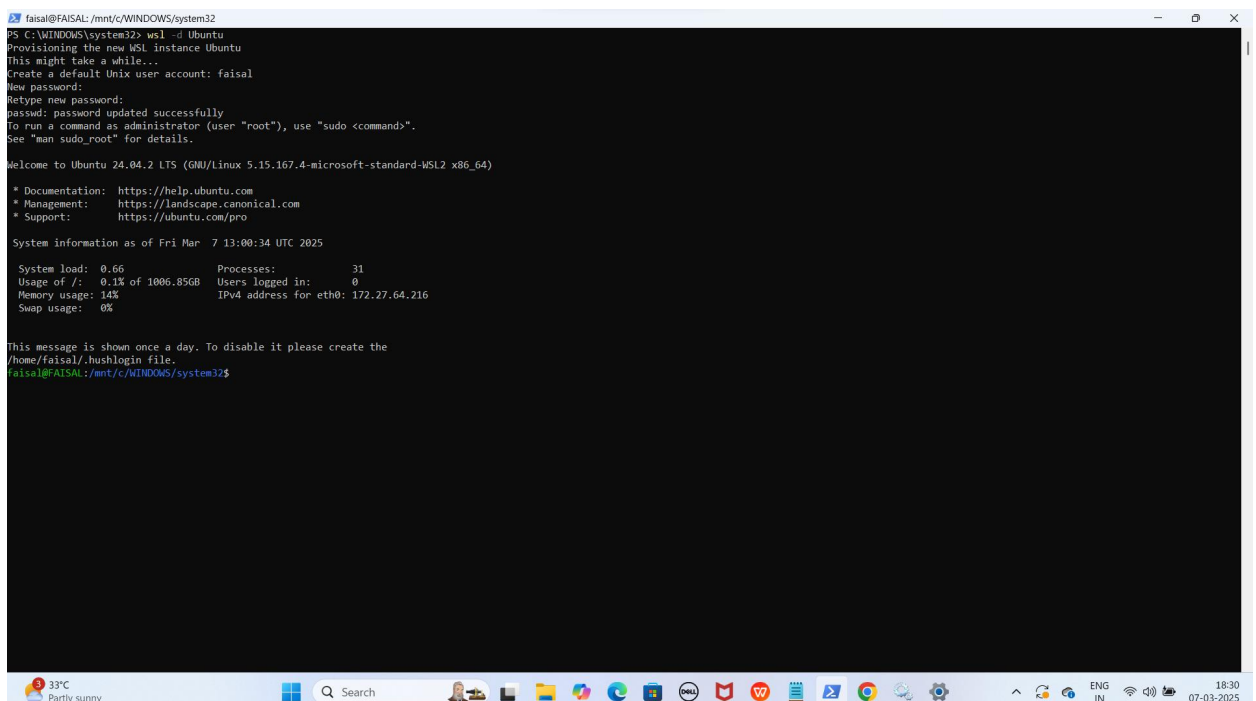
2. Ubuntu manually launch karne ke lieye ye command run kariye

wsl -d Ubuntu-24.04

Username aur password set karo

1. Username: **faisal** --> (Aapka Name Likho)
2. Password: **faisalkhan35** --> (Aapke Name Se Password Set Karo)

YE KUCH ISTARHA LAGEGA



```
faisal@FAISAL: /mnt/c/WINDOWS/system32
PS C:\WINDOWS\system32> wsl -d Ubuntu
Provisioning the new WSL instance Ubuntu
This might take a while...
Create a default Unix user account: faisal
New password:
Retype new password:
passwd: password updated successfully
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

System information as of Fri Mar  7 13:00:34 UTC 2025

System load: 0.66          Processes: 31
Usage of /:  0.1% of 1006.85GB Users logged in: 0
Memory usage: 14%         IPv4 address for eth0: 172.27.64.216
Swap usage:  0%

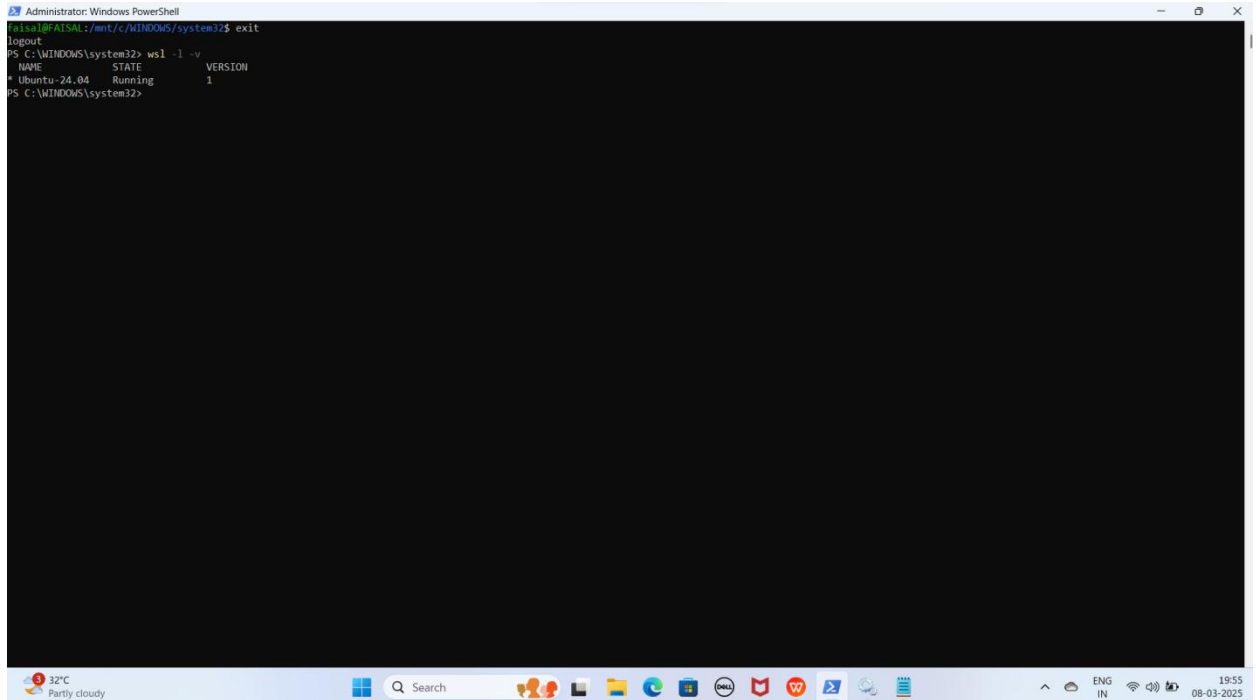
This message is shown once a day. To disable it please create the
/home/faisal/.hushlogin file.
faisal@FAISAL: /mnt/c/WINDOWS/system32$
```

NOTE: Aapko password set karte waqt nahi dikhega. Or jaise hi WSL install hoga, aap by default WSL me enter ho jaoge. Lekin aapko exit hokar WSL Version 1 par Enable hai ya nahi check karne hoga

3. Check karne ke liye ye command run kariye

`wsl -l -v`

YE KUCH ISTARHA LAGEGA



The screenshot shows a Windows PowerShell window titled 'Administrator: Windows PowerShell'. The user has executed the command `wsl -l -v`. The output displays the status of the installed Linux distributions. A table is shown with columns for NAME, STATE, and VERSION. The output indicates that 'Ubuntu-24.04' is in a 'Running' state with 'VERSION 1'. The background of the terminal window is black.

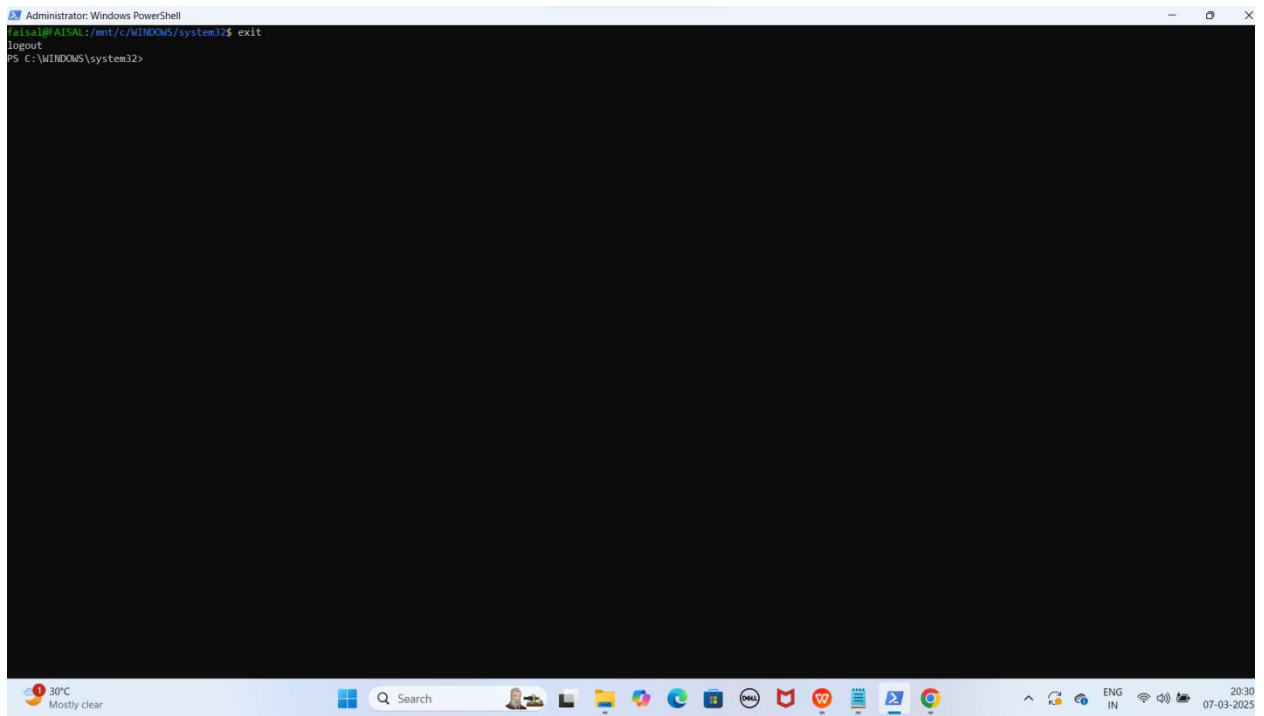
```
Administrator: Windows PowerShell
faizal@FAISAL:~/mnt/c/Windows/system32$ exit
logout
PS C:\WINDOWS\system32> wsl -l -v
NAME                STATE      VERSION
* Ubuntu-24.04      Running    1
PS C:\WINDOWS\system32>
```

NOTE: Agar aapko STATE Running and VERSION 1 show horaha matlab aapka WSL version 1 par Enable hai and run ho raha hai

4. Ab WSL se exit hojaye

exit

YE KUCH ISTARHA LAGEGA



The screenshot shows a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The terminal output is as follows:

```
faizal@FAISAL:/mnt/c/Windows/system32$ exit
logout
PS C:\WINDOWS\system32>
```

The terminal window is set against a black background. Below the terminal window, the Windows taskbar is visible, showing the weather (30°C, Mostly clear), search bar, and various application icons. The system clock in the bottom right corner indicates the time is 20:30 on 07-03-2025.

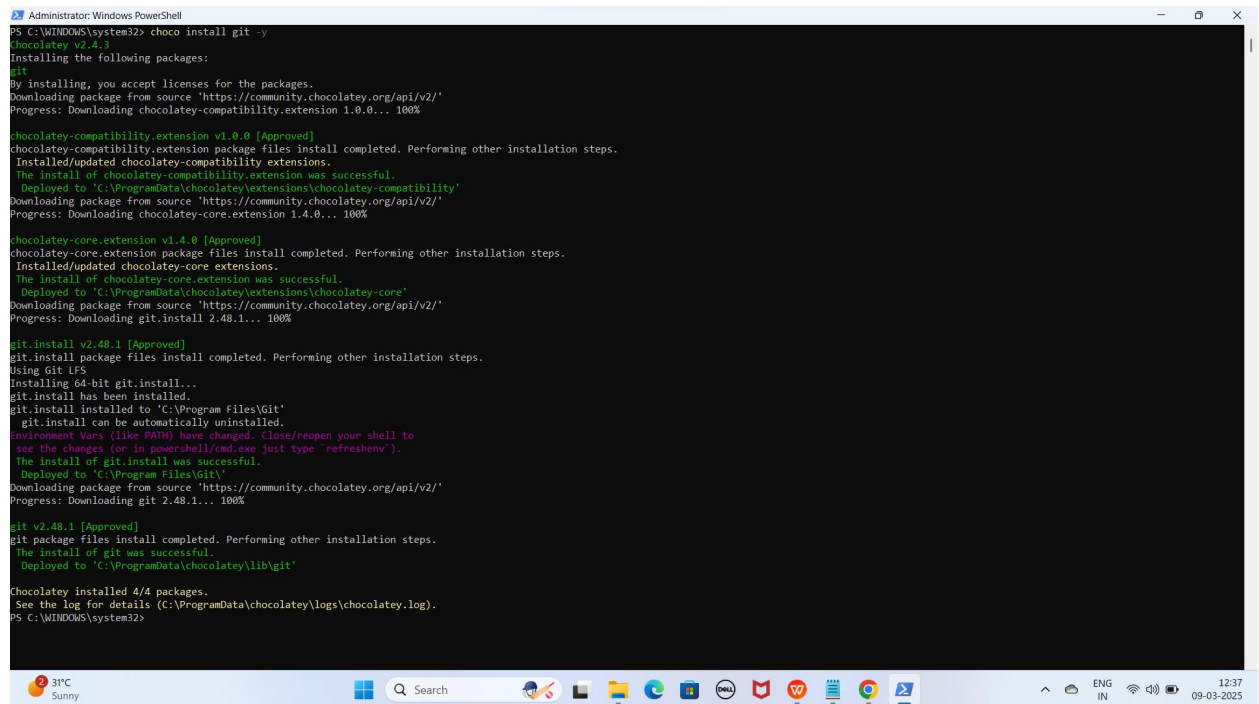
Step 6: Git Install Karo (Future purpose ke liye)

Git ek **version control system (VCS)** hai jo **developers** ko **code** ko **track** karne, **manage** karne, aur **collaborate** karne me madad karta hai.

1. Install karne ke liye ye command run kariye

choco install git -y

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> choco install git -y
Chocolatey v2.4.3
Installing the following packages:
git
By installing, you accept licenses for the packages.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading chocolatey-compatibility.extension 1.0.0... 100%
chocolatey-compatibility.extension v1.0.0 [Approved]
chocolatey-compatibility.extension package files install completed. Performing other installation steps.
Installed/updated chocolatey-compatibility extensions.
The install of chocolatey-compatibility.extension was successful.
Deployed to 'C:\ProgramData\chocolatey\extensions\chocolatey-compatibility'
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading chocolatey-core.extension 1.4.0... 100%
chocolatey-core.extension v1.4.0 [Approved]
chocolatey-core.extension package files install completed. Performing other installation steps.
Installed/updated chocolatey-core extensions.
The install of chocolatey-core.extension was successful.
Deployed to 'C:\ProgramData\chocolatey\extensions\chocolatey-core'
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading git.install 2.48.1... 100%
git.install v2.48.1 [Approved]
git.install package files install completed. Performing other installation steps.
Using Git lfs
Installing 64-bit git.install...
git.install has been installed.
git.install installed to 'C:\Program Files\Git'
git.install can be automatically uninstalled.
Environment vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The install of git.install was successful.
Deployed to 'C:\Program Files\Git'
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading git 2.48.1... 100%
git v2.48.1 [Approved]
git package files install completed. Performing other installation steps.
The install of git was successful.
Deployed to 'C:\ProgramData\chocolatey\lib\git'
Chocolatey installed 4/4 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\WINDOWS\system32>
```

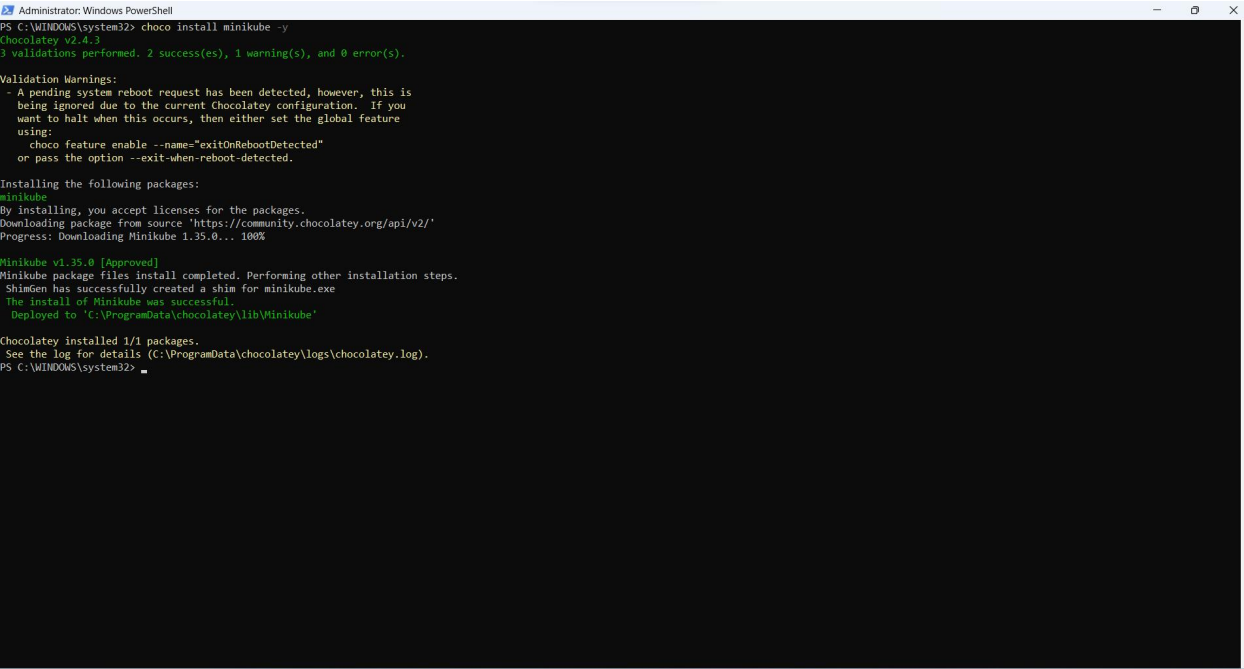
Step 7: Minikube Install Karo

Minikube ek lightweight Kubernetes cluster hai jo local machine pe run karta hai.

1. Install karne ke liye ye command run kariye

choco install minikube -y

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> choco install minikube -y
chocolatey v2.4.3
3 validations performed. 2 success(es), 1 warning(s), and 0 error(s).

Validation Warnings:
- A pending system reboot request has been detected, however, this is
  being ignored due to the current Chocolatey configuration. If you
  want to halt when this occurs, then either set the global feature
  using:
    choco feature enable --name="exitOnRebootDetected"
  or pass the option --exit-when-reboot-detected.

Installing the following packages:
minikube
By installing, you accept licenses for the packages.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading Minikube 1.35.0... 100%

Minikube v1.35.0 [Approved]
Minikube package files install completed. Performing other installation steps.
ShimGen has successfully created a shim for minikube.exe
The install of Minikube was successful.
Deployed to 'C:\ProgramData\chocolatey\lib\Minikube'

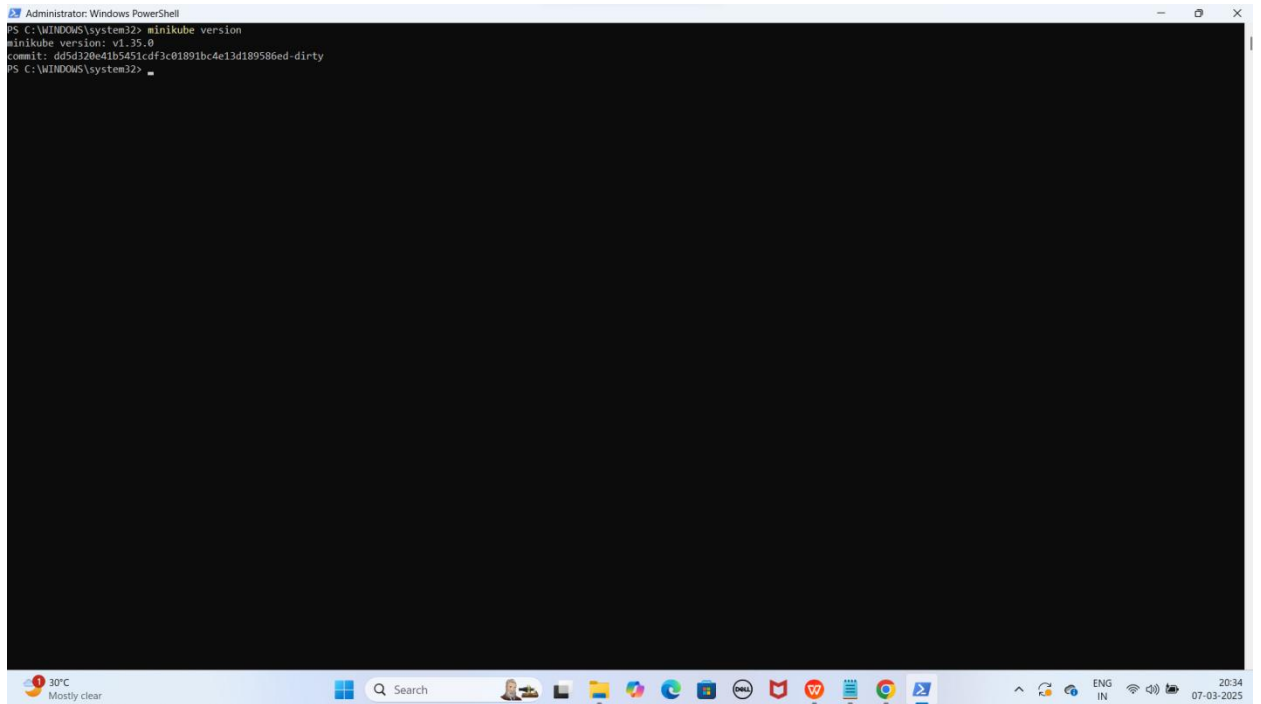
Chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\WINDOWS\system32>
```

The screenshot shows a Windows PowerShell terminal window with the title "Administrator: Windows PowerShell". The user has entered the command "choco install minikube -y". The terminal output shows the Chocolatey version (v2.4.3), validation results (2 success, 1 warning, 0 error), and a warning about a pending system reboot. It then proceeds to install the minikube package, showing the download progress (100%) and the final deployment to "C:\ProgramData\chocolatey\lib\Minikube". The Windows taskbar at the bottom shows the date as 07-03-2025 and time as 20:33.

2. Check karne ke liye ye command run kariye

minikube version

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> minikube version
minikube version: v1.35.0
commit: dd5d320e41b5451cdf3c01891bc4e13d189586ed-dirty
PS C:\WINDOWS\system32>
```

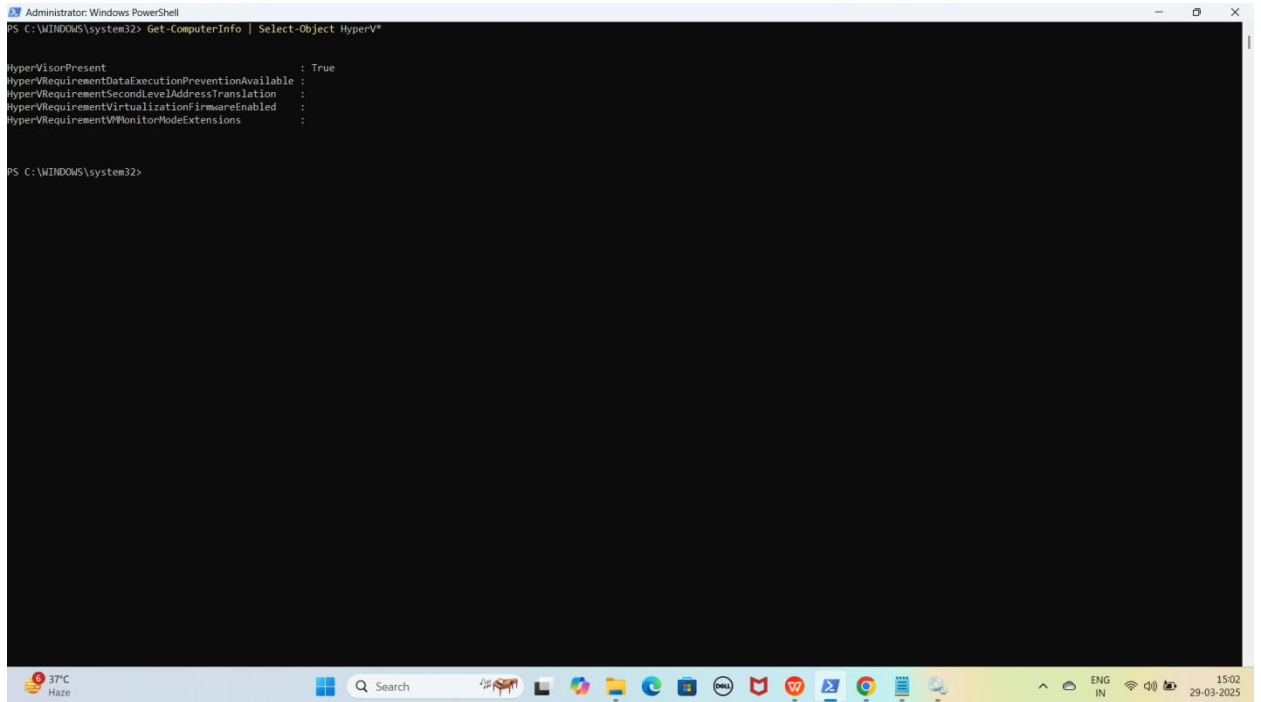
The screenshot shows a Windows PowerShell window titled 'Administrator: Windows PowerShell'. The command 'minikube version' has been executed, resulting in the following output: 'minikube version: v1.35.0' and 'commit: dd5d320e41b5451cdf3c01891bc4e13d189586ed-dirty'. The window is set against a black background. The Windows taskbar at the bottom shows the system clock as 20:34 on 07-03-2025, along with various system icons and a search bar.

NOTE : Ab aapka Minikube Successfully Install or Configure hogaya hai

3. Hypervisor Disable hona chahiye check karne ke liye ye command run kariye

Get-ComputerInfo | Select-Object HyperV*

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-ComputerInfo | Select-Object HyperV*

HyperVProcessorPresent : True
HyperVRequirementDataExecutionPreventionAvailable :
HyperVRequirementSecondLevelAddressTranslation :
HyperVRequirementVirtualizationFirmwareEnabled :
HyperVRequirementVMMonitorModeExtensions :

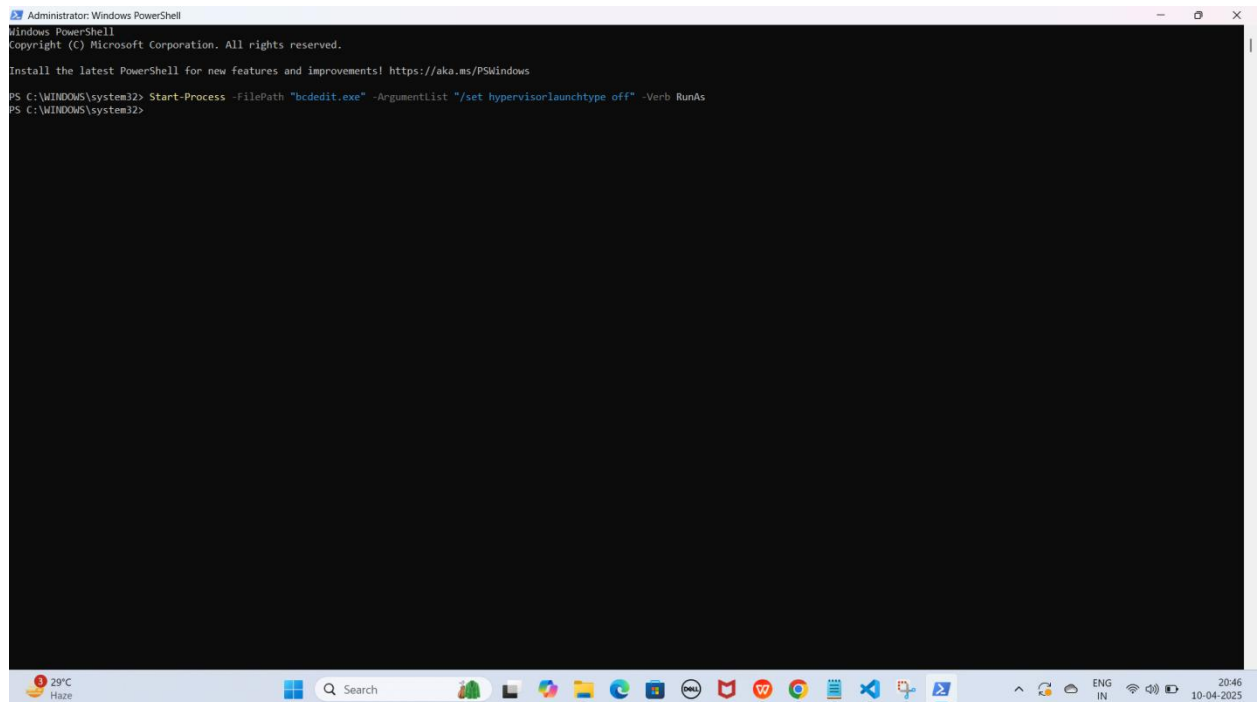
PS C:\WINDOWS\system32>
```

NOTE: Agar aapko HyperVisorPresent : True show karraha hai to aapko Hypervisor Disable karna hoga

4. Hypervisor Disable karne liye ye command run kariye

Start-Process -FilePath "bcdedit.exe" -ArgumentList "/set hypervisorlaunchtype off" -Verb RunAs

YE KUCH ISTARHA LAGEGA

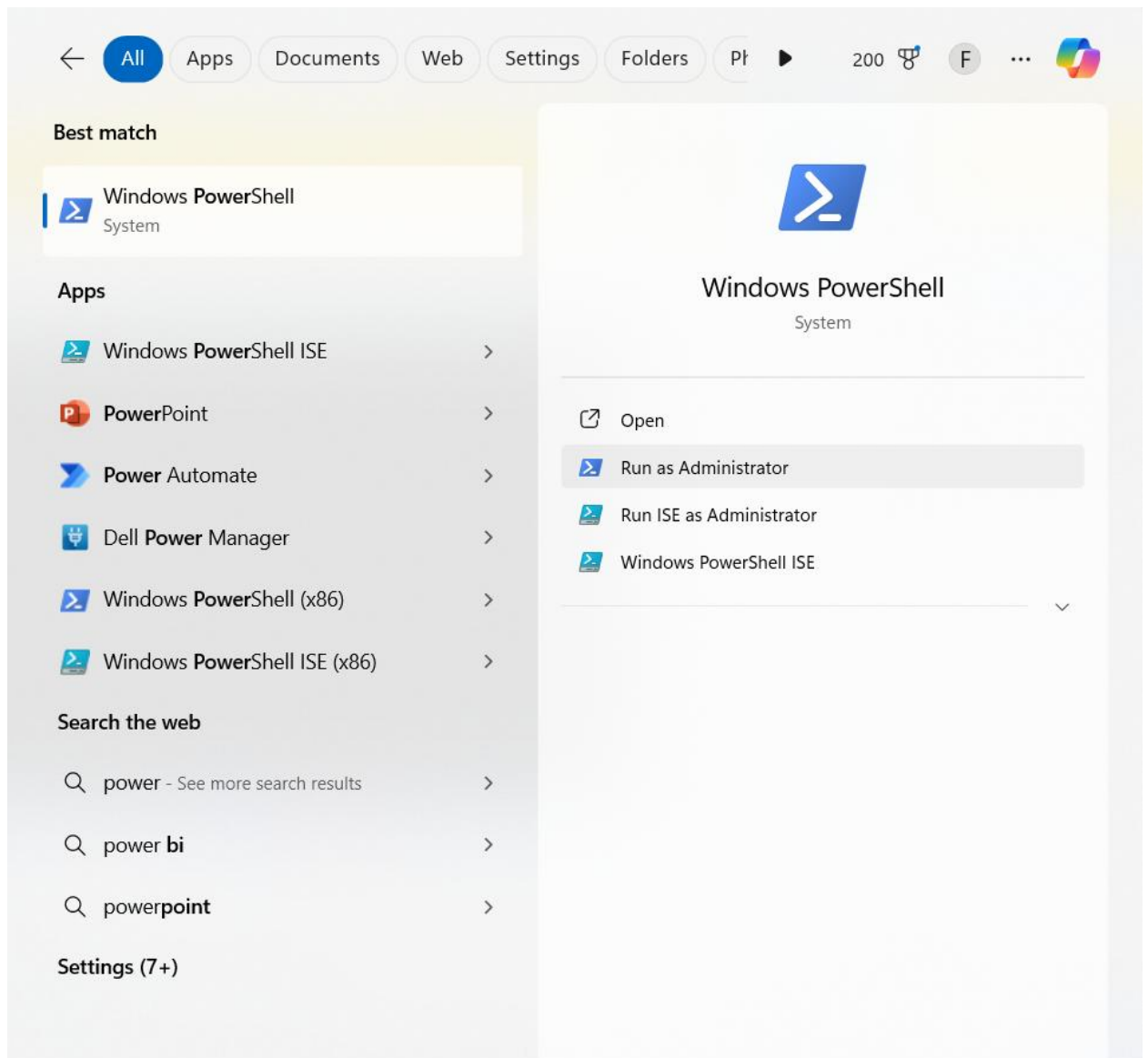


NOTE : Command Run karne ke baad System Restart kariye.

5. System Restart hone ke baad phir Powershell ko Run as Administrator se open kariye HyperVisor Disable howa check karne ke liye ye command run kariye

Get-ComputerInfo | Select-Object HyperV*

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-ComputerInfo | Select-Object HyperV*

HyperVRequirementDataExecutionPreventionAvailable : False
HyperVRequirementSecondLevelAddressTranslation    : True
HyperVRequirementVirtualizationFirmwareEnabled    : True
HyperVRequirementVMMonitorModeExtensions          : True

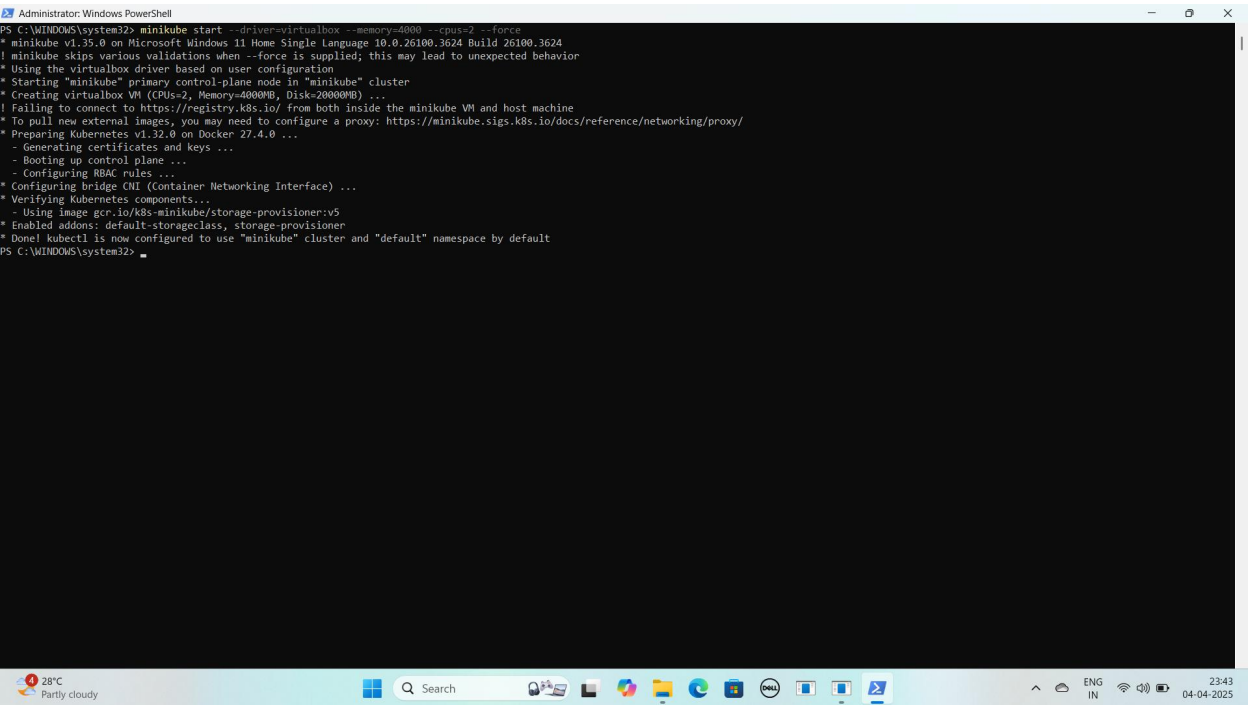
PS C:\WINDOWS\system32>
```

NOTE: Agar aapko HyperVisorPresent : False show kar raha iska matlab aapka Hypervisor Successfully Disable hogaya hai

6. Ab Minikube ko start karne ke liye ye command run kariye

```
minikube start --driver=virtualbox --memory=4000 --cpus=2 --force
```

YE KUCH ISTARHA LAGEGA

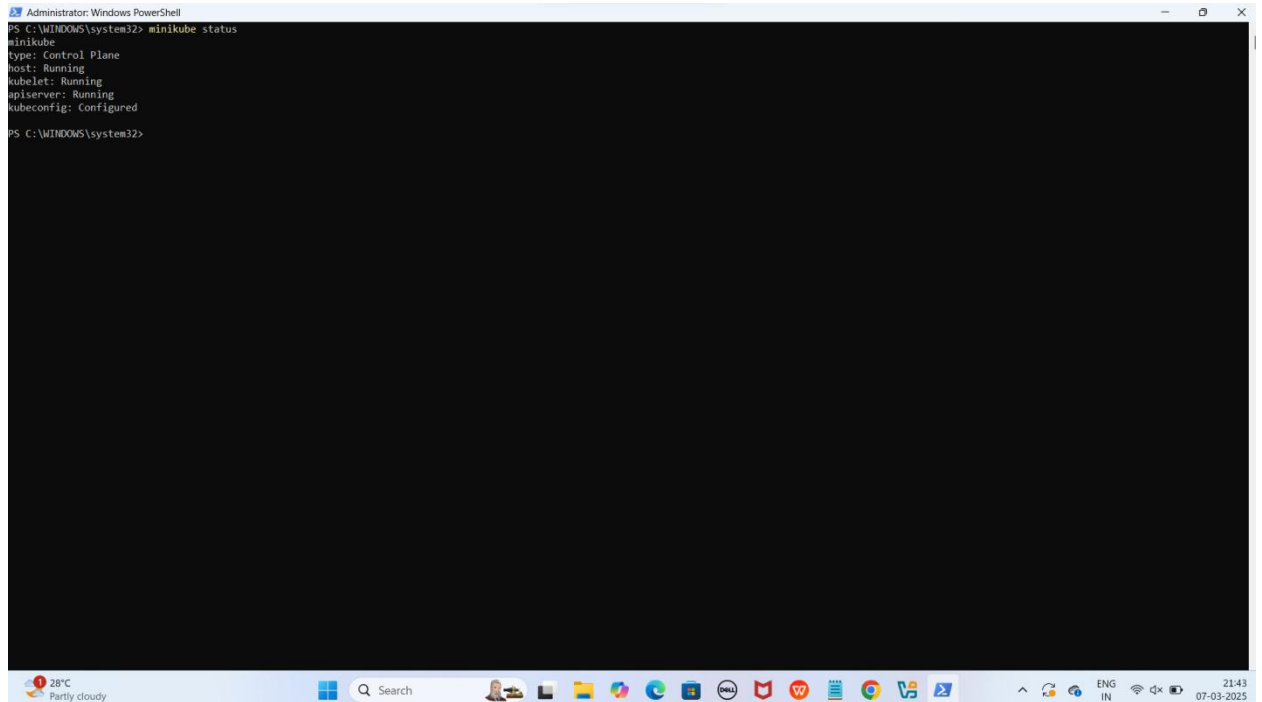


```
PS C:\WINDOWS\system32> minikube start --driver=virtualbox --memory=4000 --cpus=2 --force
* minikube v1.35.0 on Microsoft Windows 11 Home Single Language 10.0.26100.3624 Build 26100.3624
! minikube skips various validations when --force is supplied; this may lead to unexpected behavior
* Using the virtualbox driver based on user configuration
* Starting "minikube" primary control-plane node in "minikube" cluster
* Creating virtualbox VM (CPUs=2, Memory=4000MB, Disk=20000MB) ...
! Failing to connect to https://registry.k8s.io/ from both inside the minikube VM and host machine
* To pull new external images, you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/
* Preparing Kubernetes v1.32.0 on Docker 27.4.0 ...
  - Generating certificates and keys ...
  - Booting up control plane ...
  - Configuring RBAC rules ...
* Configuring bridge CNI (Container Networking Interface) ...
* Verifying Kubernetes components...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: default-storageclass, storage-provisioner
* Done! Kubectl is now configured to use "minikube" cluster and "default" namespace by default
PS C:\WINDOWS\system32>
```

7. Ab Minikube ka status check karne ke liye ye command run kariye

minikube status

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
PS C:\WINDOWS\system32>
```

The screenshot shows a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The user has entered the command "minikube status" at the prompt "PS C:\WINDOWS\system32>". The output of the command is displayed as follows:

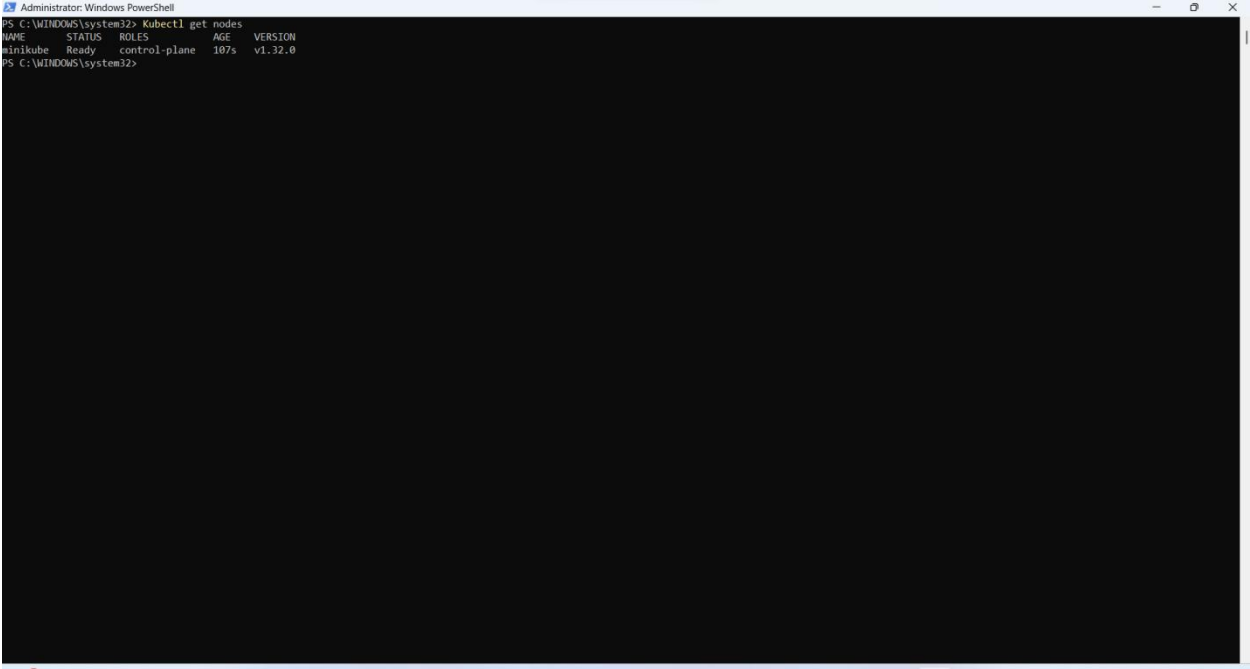
```
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
```

The terminal window is set against a black background. The Windows taskbar is visible at the bottom, showing the Start button, a search bar, and several application icons. The system tray on the right indicates the temperature is 28°C, the weather is "Partly cloudy", and the date and time are 21:43 on 07-03-2025.

8. Ab Cluster Nodes check karne ke liye ye command run kariye

kubectl get nodes

YE KUCH ISTARHA LAGEGA



The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The command prompt shows the command `kubectl get nodes` being executed. The output is a table with columns: NAME, STATUS, ROLES, AGE, and VERSION. The output shows a single node named "minikube" with a status of "Ready", a role of "control-plane", an age of "107s", and a version of "v1.32.0".

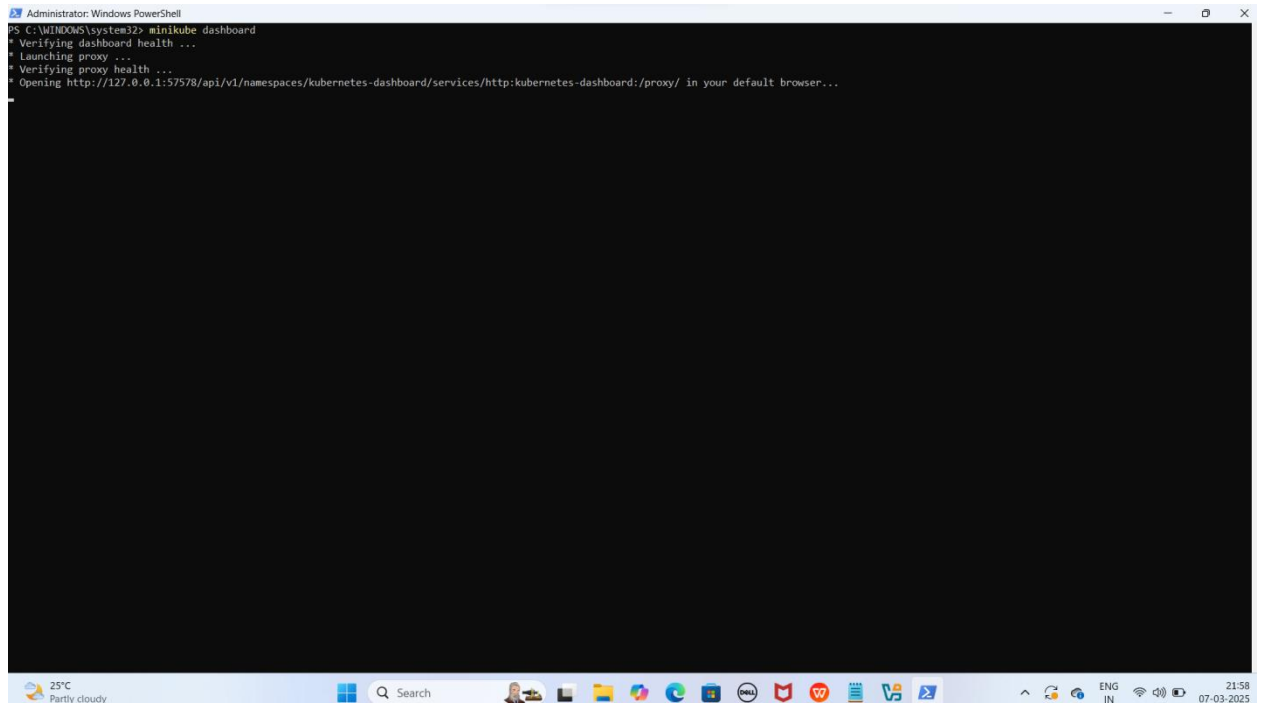
```
PS C:\WINDOWS\system32> Kubectl get nodes
NAME      STATUS    ROLES    AGE   VERSION
minikube  Ready     control-plane  107s  v1.32.0
PS C:\WINDOWS\system32>
```

NOTE: Agar STATUS Ready show kar raha hao to Congratulations aapka Minikube successfully Install and Configure hogaya hai ab aap Deployment kar sakte hai

9. Minikube Dashboard check karna ke liye ye commad run kariye

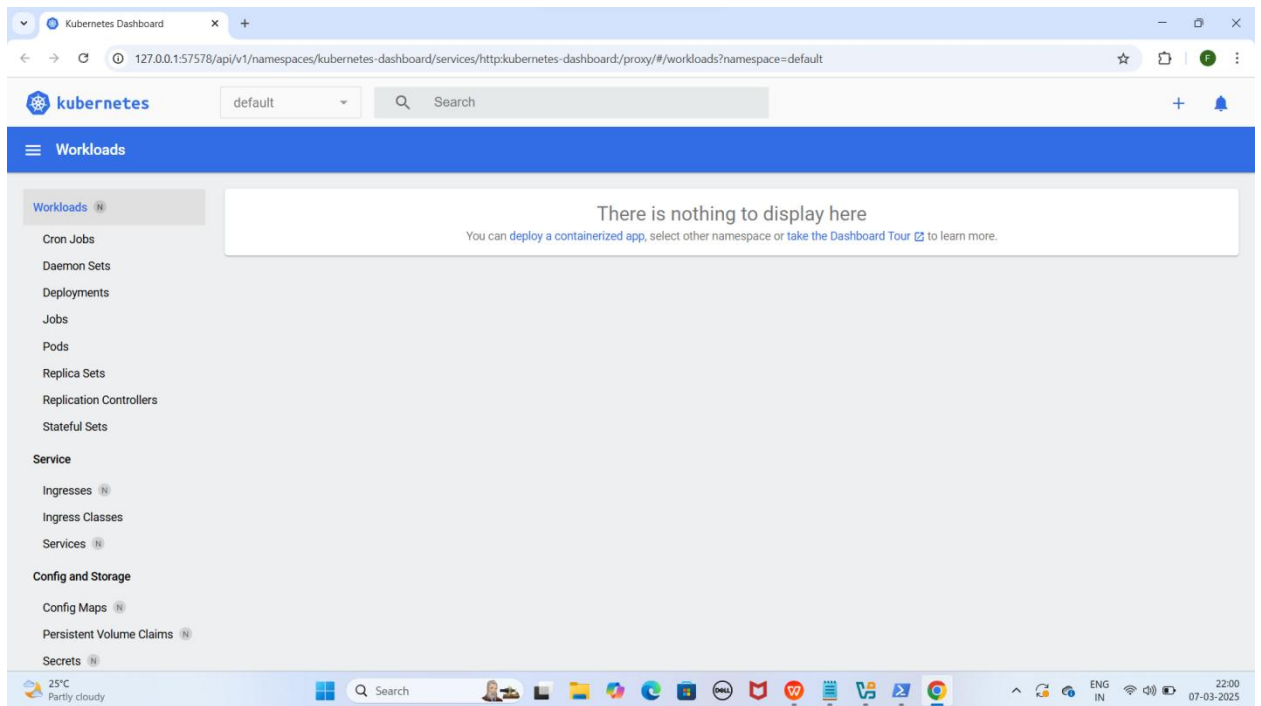
minikube dashboard

YE KUCH ISTARHA LAGEGA



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> minikube dashboard
* Verifying dashboard health ...
* Launching proxy ...
* Verifying proxy health ...
* Opening http://127.0.0.1:57578/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
```

NOTE : Automatically ye Minikube Dashboard ko Browser par open kar dega



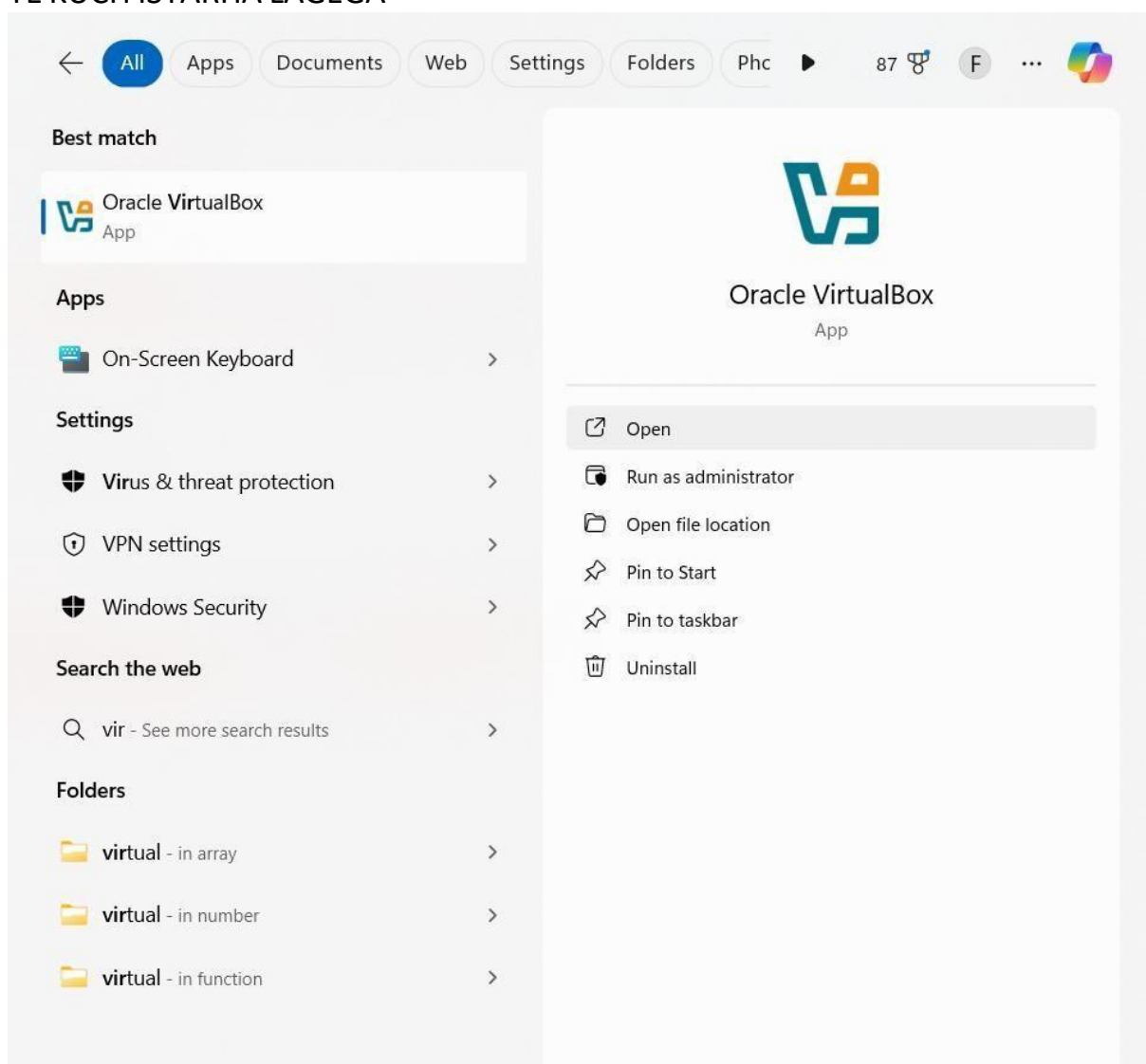
Recommend : Har Step aur Command ko meri Snapshots se Match karein taake Confirm ho sake ke sab kuch sahi tarah se Execute hua hai.

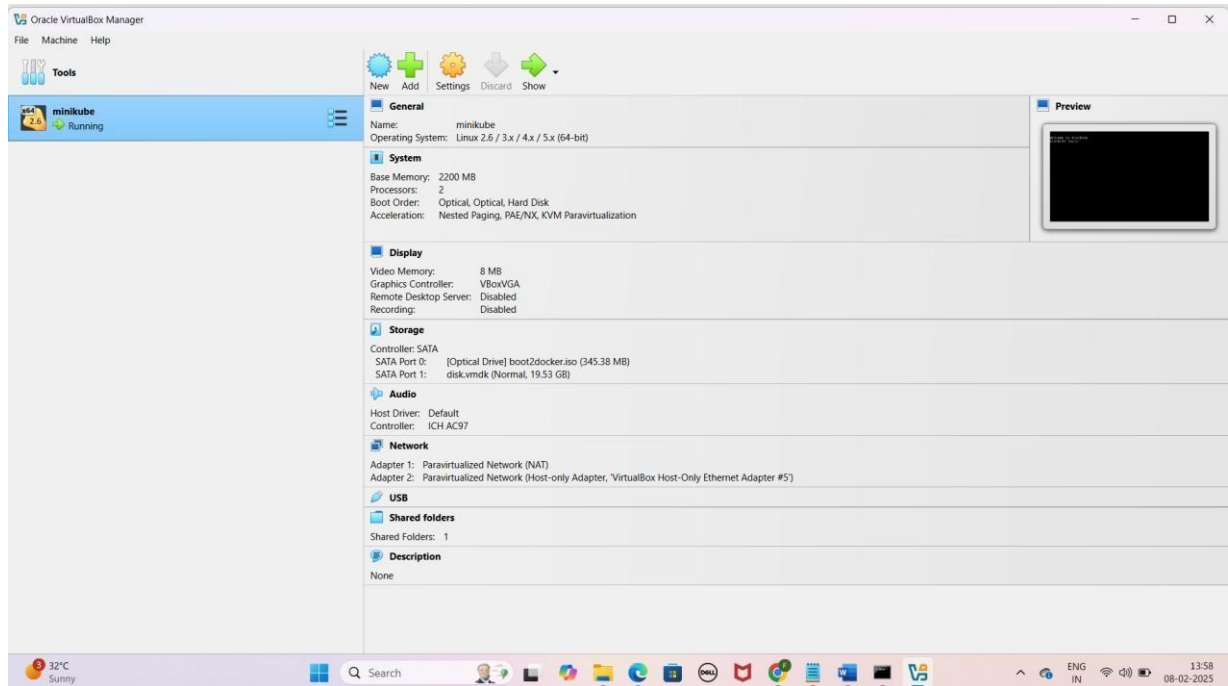
Optional 1: Still agar aapko koi Error aata hai to ye commands run kariye first Minikube Delete kare phir Start kariye agar Error aata hai to ya minikube sahi se Configure ya start nahi howa hai

1. minikube delete
2. minikube start --driver=virtualbox --force

Optional 2: Agar aapko minikube virtualbox me check karna hai to Oracle Virtual Box open kare aap waha par minikube Running State me Dekhenge

YE KUCH ISTARHA LAGEGA





NOTE: Yaad rahe aapko first jo Tools starting me maine bataye the wo aapko Uninstall karne padenge phir choco ke zariye install karne honge tabhi aapka Minikube and WSL sahi Run and Configure hoga. Recommend ye hoga ke System Format kardo

