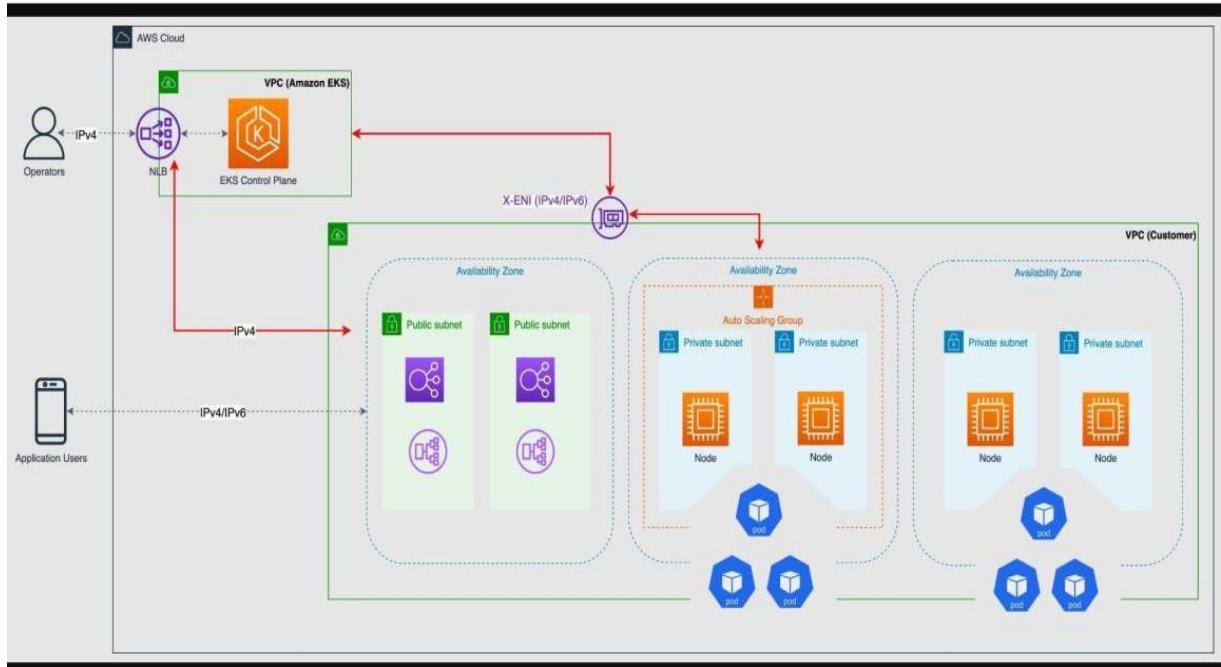


# EKS CLUSTER CREATION AND SETUP



**EKS (Elastic Kubernetes Service)** AWS ka **managed Kubernetes service** hai. Ismein **AWS control plane** ko **manage** karta hai, tu sirf **pods** aur **worker nodes** handle karta hai. Yeh **secure, scalable** aur **production-ready** hota hai. EKS se tu bina tension ke **Kubernetes apps cloud** mein chala sakta hai

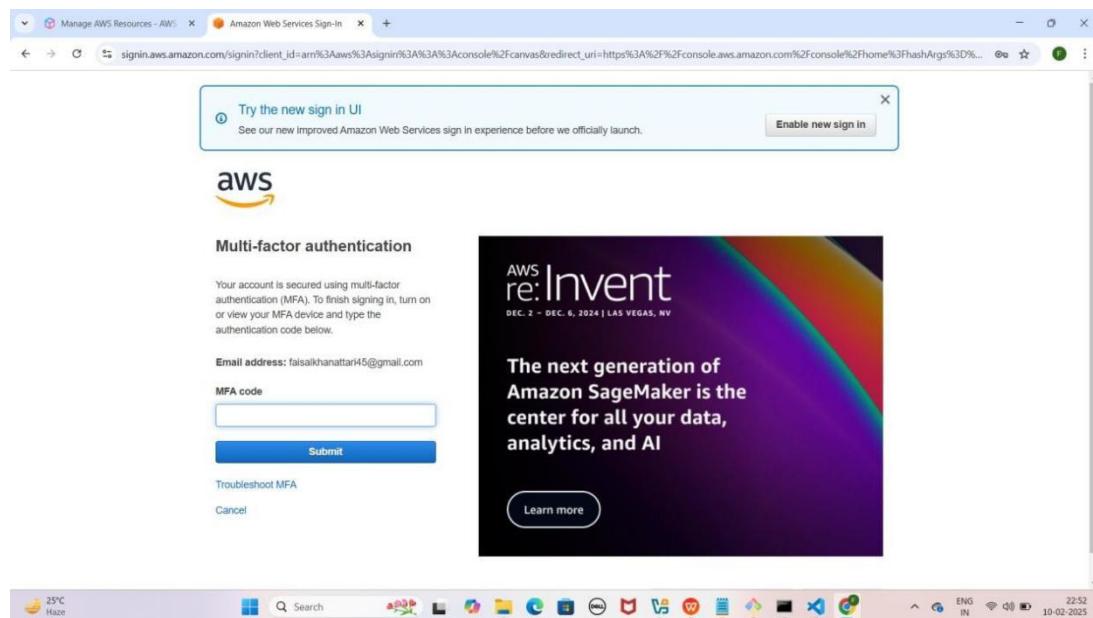
Yeh rahi step-by-step EKS Cluster creation ki guide Roman Urdu mein

# Part 1: EKS Cluster Creation and Setup-->(Stockholm Region Select Karo)

## Step 1: EKS Cluster Create Karna

1. **AWS Management Console** open karo.
2. Search bar mein "EKS" likho aur **Elastic Kubernetes Service** open karo.
3. **Create Cluster** pe click karo. 4. **Cluster Configuration** mein:
  1. **Eks auto mode** disable karo.
  2. **Cluster Name:** Faisal enter karo --> (Aapka Name Likho)
  3. **Cluster IAM Role:** AmazonEKSClusterRole select karo.

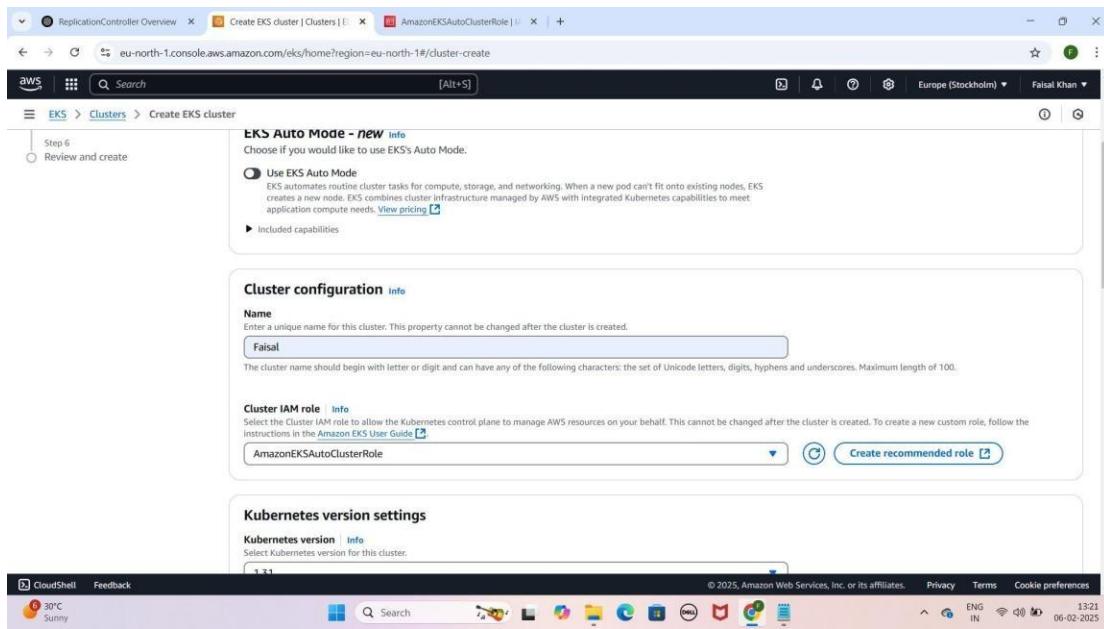
YE KUCH ISTARHA LAGEGA



The screenshot shows the AWS Cloud Home page with a search bar at the top containing "eks". On the left sidebar, under the "Services" section, "Elastic Kubernetes Service" is highlighted. The main content area features a card for "Elastic Kubernetes Service" with the sub-section "Top features" showing "Clusters". Below it are cards for "Batch" and "AWS FIS". The right side of the screen displays a "Create application" interface with a "Find applications" search bar and a "Create application" button.

The screenshot shows the "Clusters" overview page for EKS. The left sidebar includes sections for "Amazon Elastic Kubernetes Service", "Amazon EKS Anywhere", "Related services" (Amazon ECR, AWS Batch), and "Console settings". The main content area shows a table titled "Clusters (0)" with a single entry: "No clusters. You do not have any clusters." A "Create cluster" button is visible at the bottom.

The screenshot shows the "Configure cluster" step of the "Create EKS cluster" wizard. On the left, a vertical navigation menu lists steps 1 through 6. Step 1, "Configure cluster", is selected and highlighted with a blue circle. The main content area contains two sections: "Configuration options - new" and "EKS Auto Mode - new". Under "Configuration options - new", there are two radio button options: "Quick configuration (with EKS Auto Mode) - new" (selected) and "Custom configuration". Under "EKS Auto Mode - new", there is a description of what it does and a link to "View pricing". At the bottom, there is a "Cluster configuration" section with a "Name" input field and a placeholder "Enter name".



## Step 2: IAM Role Mein Additional Policies Attach Karna

1. **IAM Console** open karo (new tab mein).
2. **Roles** pe jao aur **AmazonEKSClusterRole** search karo.
3. **Attach Policies** pe click karo aur ye **policies** attach karo

- **AdministratorAccess**
- **AmazonEC2ContainerRegistryFullAccess**
- **AmazonEC2FullAccess**
- **AmazonEKSClusterPolicy**
- **AmazonEKSCoComputePolicy**
- **AmazonEKSLoadBalancingPolicy**
- **AmazonEKSNetworkingPolicy**
- **AmazonEKSWorkerNodePolicy**
- **AmazonSSMManagedInstanceCore**
- **EC2InstanceConnect**

4. **EKS Console** wapas jao, **AmazonEKSClusterRole** ko select karo

# YE KUCH ISTARHA LAGEGA

The screenshot shows the AWS IAM Roles page. A search bar at the top right contains the query "AmazonEKSAutoClusterRole". Below the search results, there is a table with three columns: Role name, Trusted entities, and Last activity. Two roles are listed:

Role name	Trusted entities	Last activity
AmazonEKSAutoClusterRole	AWS Service: eks	4 days ago
AmazonEKSAutoClusterRoles	AWS Service: eks	14 days ago

Below the table, there are two sections: "Access AWS from your non AWS workloads" and "Temporary credentials".

The screenshot shows the details page for the "AmazonEKSAutoClusterRole". The "Permissions" tab is selected. It displays a table of attached permissions, with one policy named "AdministratorAccess" attached.

Policy name	Type	Attached entities
AdministratorAccess	AWS managed - job function	5
AmazonEC2ContainerRegistryFullAccess	AWS managed	1

Screenshot of the AWS IAM Roles page for the 'AmazonEKSAutoClusterRole'.

The page shows the following details:

- Last activity: 4 days ago
- Maximum session duration: 1 hour
- Permissions tab selected
- Permissions policies (10):
  - AdministratorAccess (AWS managed - job function)
  - AmazonEC2ContainerRegistryFullAccess (AWS managed)
  - AmazonEC2FullAccess (AWS managed)
  - AmazonEKSClusterPolicy (AWS managed)
  - AmazonEKSComputePolicy (AWS managed)
  - AmazonEKSLoadBalancingPolicy (AWS managed)
  - AmazonEKSNetworkingPolicy (AWS managed)
  - AmazonEKSWorkerNodePolicy (AWS managed)
  - AmazonSSMManagedInstanceCore (AWS managed)
  - EC2InstanceConnect (AWS managed)
- Attached entities: 5 entities
- Actions: Simulate, Remove, Add permissions, Attach policies, Create inline policy

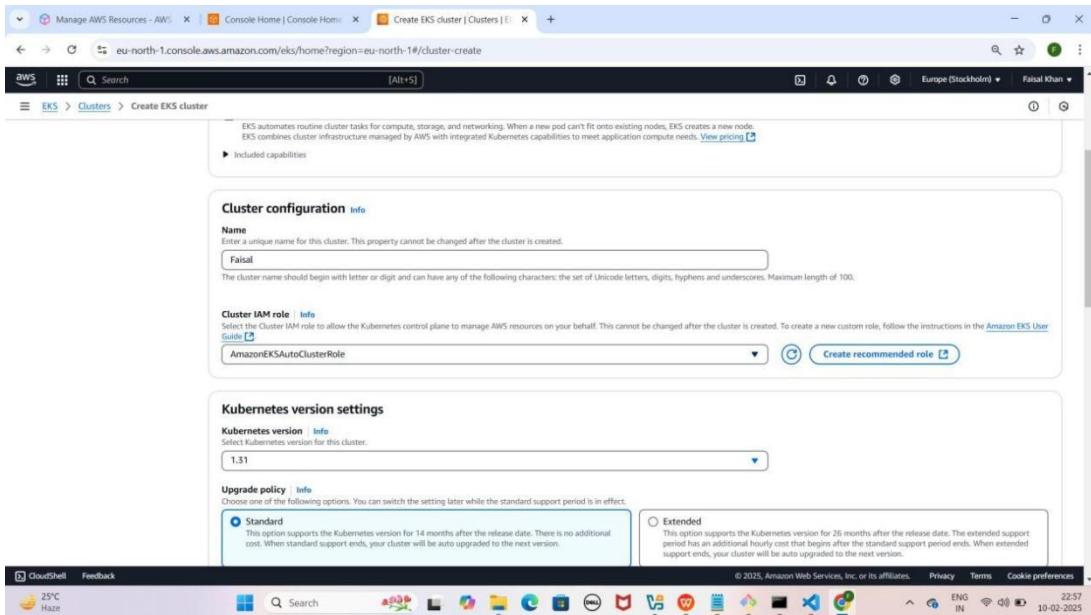
The URL in the address bar is: <https://us-east-1.console.aws.amazon.com/iam/home?region=eu-north-1#/roles/details/AmazonEKSAutoClusterRole?section=permissions>

Screenshot of the AWS IAM Roles page for the 'AmazonEKSAutoClusterRole'.

The page shows the following details:

- Last activity: 4 days ago
- Maximum session duration: 1 hour
- Permissions tab selected
- Permissions policies (10):
  - AdministratorAccess (AWS managed - job function)
  - AmazonEC2ContainerRegistryFullAccess (AWS managed)
  - AmazonEC2FullAccess (AWS managed)
  - AmazonEKSClusterPolicy (AWS managed)
  - AmazonEKSComputePolicy (AWS managed)
  - AmazonEKSLoadBalancingPolicy (AWS managed)
  - AmazonEKSNetworkingPolicy (AWS managed)
  - AmazonEKSWorkerNodePolicy (AWS managed)
  - AmazonSSMManagedInstanceCore (AWS managed)
  - EC2InstanceConnect (AWS managed)
- Attached entities: 5 entities
- Actions: Simulate, Remove, Add permissions, Attach policies, Create inline policy

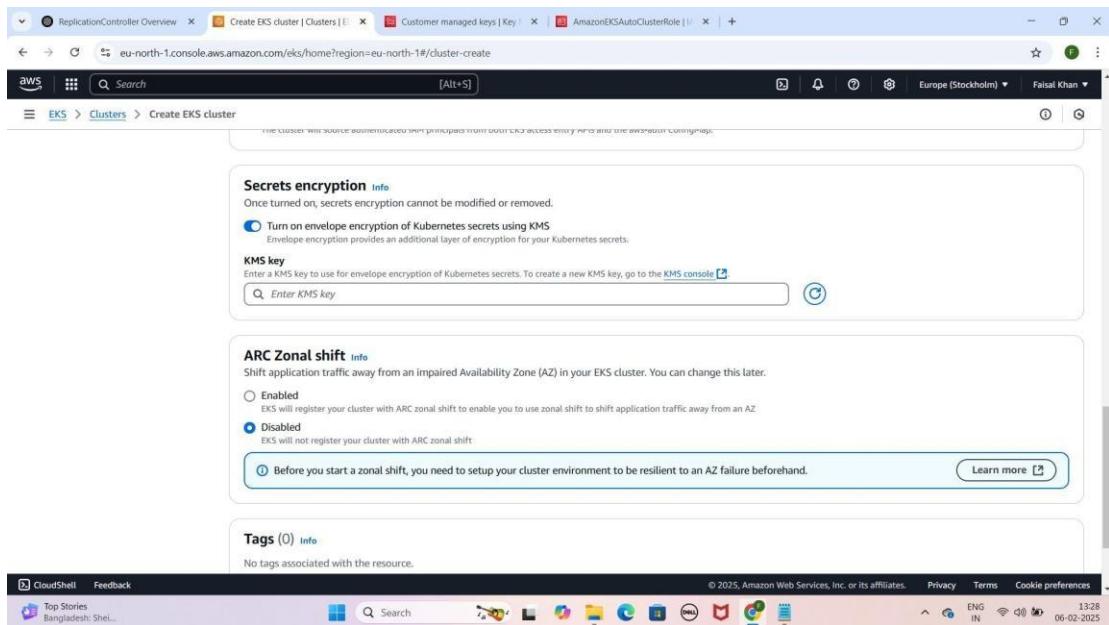
The URL in the address bar is: <https://us-east-1.console.aws.amazon.com/iam/home?region=eu-north-1#/roles/details/AmazonEKSAutoClusterRole?section=permissions>



## Step 3: KMS Key Banana (Secrets Encryption Enable Karna)

1. **KMS Console** open karo (new tab mein).
2. **Create Key** pe **click** karo.
3. **Alias Name: Faisal-Keys** enter karo --> (Aapka Name Likho)
4. **IAM Roles: AmazonEKSClusterRole** aur **AmazonEKSNodeRole** select karo.
5. **Key Users: Same roles** select karo.
6. **Next → Next → Review** page pe **Finish** pe **click** karo.
7. **Wapas EKS Console jao, KMS Key** select karo jo abhi **create** ki.

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Screenshot of the AWS KMS console showing the list of customer-managed keys. A single key named 'Faisal-Key' is listed.

Aliases	Key ID	Status	Key type	Key spec	Key usage
	d2629dc1-8ec9-420...	Disabled	Symmetric	SYMMETRIC_DEFAULT	Encrypt and decrypt

Screenshot of the 'Create key' wizard Step 1: Configure key.

**Step 1**  **Configure key**

**Key type** [Help me choose](#)

**Symmetric**  
A single key used for encrypting and decrypting data or generating and verifying HMAC codes.

**Asymmetric**  
A public and private key pair used for encrypting and decrypting data, signing and verifying messages, or deriving shared secrets.

**Key usage** [Help me choose](#)

**Encrypt and decrypt**  
Use the key only to encrypt and decrypt data.

**Generate and verify MAC**  
Use the key only to generate and verify hash-based message authentication codes (HMAC).

**Advanced options**

[Cancel](#) [Next](#)

Screenshot of Step 2: Create key | KMS Console

The page shows the 'Add labels' step of creating a KMS key. The navigation bar includes tabs for ReplicationController Overview, Create EKS cluster | Clusters, Step 2 | Create key | KMS Cons..., and AmazonEKSAutoClusterRole.

**Add labels**

**Alias**  
You can change the alias at any time. Learn more [\[?\]](#)  
Alias: Failai-Keys

**Description - optional**  
You can change the description at any time.  
Description: Description of the key

**Tags - optional**  
You can use tags to categorise and identify your KMS keys and help you track your AWS costs. When you add tags to AWS resources, AWS generates a cost allocation report for each tag. Learn more [\[?\]](#)  
This key has no tags.  
Add tag You can add up to 50 more tags.

Cancel Skip to Review Previous Next

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Screenshot of Step 3: Create key | KMS Console

The page shows the 'Define key administrative permissions' step of creating a KMS key. The navigation bar includes tabs for ReplicationController Overview, Create EKS cluster | Clusters, Step 3 | Create key | KMS Cons..., and AmazonEKSAutoClusterRole.

**Key administrators (2/32)**  
Select the IAM users and roles authorised to manage this key via the KMS API. These administrators will be added to the key policy under the statement identifier (Sid) 'Allow administration of the key'. Modifying this Sid might impact the console's ability to update the administrator statement in the key policy. Learn more [\[?\]](#)

Name	Path	Type
5	/	Role
<input checked="" type="checkbox"/> AmazonEKSAutoClusterRole	/	Role
<input type="checkbox"/> AmazonEKSAutoClusterRoles	/	Role
<input checked="" type="checkbox"/> AmazonEKSAutoNodeRole	/	Role
<input type="checkbox"/> AmazonEKSAutoNodeRoles	/	Role
<input type="checkbox"/> aws-ec2-spot-fleet-tagging-role	/	Role
<input type="checkbox"/> aws-elasticbeanstalk-service-role	/service-role/	Role
<input type="checkbox"/> AWSServiceRoleForAmazonEKS	/aws-service-role/eks.amazonaws.com/	Role
<input type="checkbox"/> AWSServiceRoleForAmazonEKSNodegroup	/aws-service-role/eks-nodegroup.amazonaws.com/	Role
<input type="checkbox"/> AWSServiceRoleForAutoScaling	/aws-service-role/autoscaling.amazonaws.com/	Role

**Key deletion**  
 Allow key administrators to delete this key.

Cancel Skip to Review Previous Next

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Screenshot of the AWS KMS 'Create key' wizard Step 4: Define key usage permissions - optional.

**Key users (2/32)**  
 Select the IAM users and roles authorised to use this key in cryptographic operations. These users will be added to the key policy under the statement identifiers (Sids) "Allow use of the key" and "Allow attachment of persistent resources". Modifying these Sids might impact the console's ability to update the user statements in the key policy. [Learn more](#)

Name	Path	Type
S	/	Role
<input checked="" type="checkbox"/> AmazonEKSAutoClusterRole	/	Role
<input checked="" type="checkbox"/> AmazonEKSAutoClusterRoles	/	Role
<input checked="" type="checkbox"/> AmazonEKSAutoNodeRole	/	Role
AmazonEKSAutoNodeRoles	/	Role
aws-ec2-spot-fleet-tagging-role	/	Role
aws-elasticbeanstalk-service-role	/service-role/	Role
AWSServiceRoleforAmazonEKS	/aws-service-role/ebs.amazonaws.com/	Role
AWSServiceRoleforAmazonEKSNodergroup	/aws-service-role/ebs-nodergroup.amazonaws.com/	Role
AWSServiceRoleforAutoScaling	/aws-service-role/autoscaling.amazonaws.com/	Role

**Other AWS accounts**  
 Specify the AWS accounts that can use this key. Administrators of the accounts you specify are responsible for managing the permissions that allow their IAM users and roles to use this key. [Learn more](#)

Add another AWS account

Screenshot of the AWS KMS 'Create key' wizard Step 5: Edit key policy - optional.

**Introducing the new Create key experience**  
 We've improved the create key experience with an enhanced policy editor. Let us know what you think or you can use the old experience.

**Edit key policy - optional**

Review the key policy statements for this key. To manually update this policy, select Edit. Modifying the statement identifiers (Sids) assigned in the previous steps might affect how the console displays updates to that statement.

```

48 [ "arn:aws:iam::195275659054:role/AmazonEKSAutoNodeRole"
49 ]
50 ]
51 "Action": [
52   "kms:Encrypt",
53   "kms:Decrypt",
54   "kms:ReEncrypt*",
55   "kms:GenerateDataKey",
56   "kms:DescribeKey"
57 ],
58 "Resource": "*"
59 ],
60 [
61   "Sid": "Allow attachment of persistent resources",
62   "Effect": "Allow",
63   "Principal": [
64     "AWS"
65   ],
66   "ARN": "arn:aws:iam::195275659054:role/AmazonEKSAutoClusterRole",
67   "ARN": "arn:aws:iam::195275659054:role/AmazonEKSAutoNodeRole"
68 ],
69 "Action": [
70   "kms:CreateGrant",
71   "kms:ListGrants",
72   "kms:RevokeGrant"
73 ],
74 "Resource": "*",
75 "Condition": {
76   "Bool": [
77     "aws:PrincipalForAWSResource": "true"
78   ]
79 }
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eu-north-1.console.aws.amazon.com/kms/home?keys&region=eu-north-1#kms/keys/create

Introducing the new Create key experience  
We've improved the create key experience with an enhanced policy editor. Let us know what you think or you can use the old experience.

Step 1 Configure key Step 2 Add labels Step 3 - optional Define key administrative permissions Step 4 - optional Define key usage permissions Step 5 - optional Edit key policy Step 6 Review

**Review**

**Key configuration**

Key type	Symmetric
Origin	AWS KMS
Regionality	Single-region key

**Key usage**  
Encrypt and decrypt

**Alias and description**

Alias	Faisal-Keys
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**Tags**

Key	Value
No data No tags to display	

**Key administrators**

CloudShell Feedback 30°C Sunny Search Europe (Stockholm) ENG IN 06-02-2025

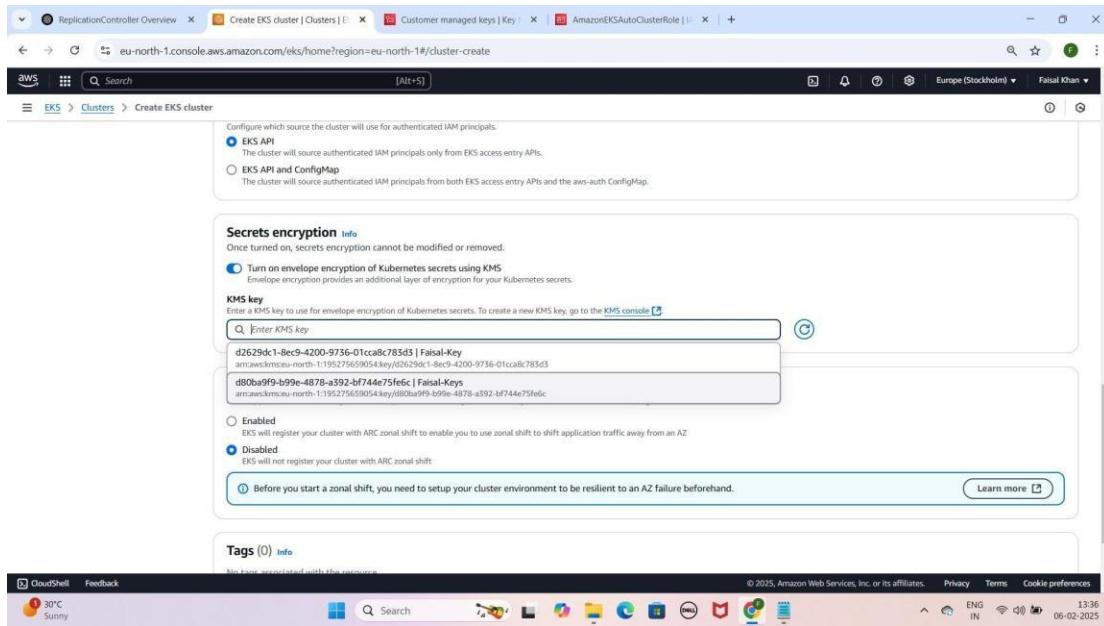
eu-north-1.console.aws.amazon.com/kms/home?keys&region=eu-north-1#kms/keys

Success  
Your AWS KMS key was created with alias Faisal-Keys and key ID d80ba9ff-b99e-4878-a392-bf744a75fe6c.

**Customer-managed keys (2)**

Aliases	Key ID	Status	Key type	Key spec	Key usage
<input type="checkbox"/> Faisal-Key	d2629dc1-8ec9-4200-0736-01cca...	Disabled	Symmetric	SYMMETRIC_DEFAULT	Encrypt and decrypt
<input type="checkbox"/> Faisal-Keys	d80ba9ff-b99e-4878-a392-bf744...	Enabled	Symmetric	SYMMETRIC_DEFAULT	Encrypt and decrypt

View key Key actions Create key CloudShell Feedback 30°C Sunny Search Europe (Stockholm) ENG IN 06-02-2025



## Step 4: Security Group Create Karna

1. **EC2 Console** open karo.
2. **Security Groups** section mein jao.
3. **Create Security Group** pe click karo.
  1. **Name:** ALL-TRAFFIC-ALLOW
  2. **Description:** My all traffic security group
4. **Inbound Rules**
  1. **Type:** All Traffic 2. **Source:** Anywhere IPv4
5. **Outbound Rules**
  1. **Type:** All Traffic
  2. **Destination:** Anywhere IPv4
6. **Create Security Group** pe click karo.
7. Wapas **EKS Console** jao aur **ALL-TRAFFIC-ALLOW** security group select karo.

# YE KUCH IS TARHA LAGEGA

The screenshot shows the AWS EKS console with the URL <https://eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#cluster-create>. The page is titled "Create EKS cluster" and displays the second step of the wizard: "Specify cluster details". The left sidebar shows a progress bar with six steps: Step 1 (Configure), Step 2 (Specify), Step 3 (Configure), Step 4 (Select a provider), Step 5 (Configure), and Step 6 (Review). The main content area is titled "Services" and lists three services: EC2 (Virtual Servers in the Cloud), EC2 Image Builder (A managed service to automate build, customize and deploy OS images), and EC2 Global View (Provides a global dashboard and search functionality). Below this is a "Features" section with "Dashboard" (EC2 feature), "AMIs" (EC2 feature), and "EC2 Instances" (CloudWatch feature). A note at the bottom says "Configure remote networks to enable hybrid nodes - new". The status bar at the bottom shows the URL, the date (06-02-2025), and the time (13:37).

The screenshot shows the AWS EC2 console with the URL <https://eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Overview>. The page is titled "Amazon Elastic Compute Cloud (EC2)" and displays the "Compute" overview. The left sidebar shows a navigation menu with sections: Dashboard, EC2 Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security (Security Groups, Elastic IP). The main content area features a large heading "Amazon Elastic Compute Cloud (EC2)" with the subtext "Create, manage, and monitor virtual servers in the cloud." It includes a "Launch a virtual server" button and a "View dashboard" button. Below this are sections for "Benefits and features" (with a sub-section for "EC2 offers ultimate scalability and control") and "Get started" (with links for "Highest walkthroughs" and "Get started tutorial"). The status bar at the bottom shows the URL, the date (06-02-2025), and the time (13:38).

Screenshot of the AWS Cloud Console showing the Security Groups page. The left sidebar shows navigation links for Images, AMIs, AMI Catalog, Elastic Block Store, Network & Security (Security Group selected), Load Balancing, Auto Scaling, and Settings. The main content area displays a table of security groups with columns: Name, Security group ID, Security group name, VPC ID, and Description. The table lists six entries:

Name	Security group ID	Security group name	VPC ID	Description
-	sg-0fa5b2699d773069	DB_SG	vpc-0e345f19effbea822	DB_SG
-	sg-05a73f479674e50c6	NEW_SECURITY	vpc-0e345f19effbea822	NEW_SECURITY
-	sg-05c5d8eb0fd26c942	DB_EC2_SG	vpc-0e345f19effbea822	DB_EC2_SG
-	sg-091cb5b2e1a129ec	SCRIPT-WEBSITE	vpc-0e345f19effbea822	SCRIPT-WEBSITE
-	sg-08a25fe5293110a61	default	vpc-0e345f19effbea822	default VPC security group
-	sg-0495935b59953c366	launch-wizard-1	vpc-0e345f19effbea822	launch-wizard-1 created 2024-10-12T1...

The status bar at the bottom indicates: © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences. ENG IN 13:58 06-02-2025.

Screenshot of the AWS Cloud Console showing the 'Create security group' wizard. The top navigation bar includes ReplicationController Overview, Create EKS cluster | Clusters, CreateSecurityGroup | EC2, Customer managed keys | Key, AmazonEKSAutoClusterRole, and a plus sign icon. The left sidebar shows EC2 > Security Groups > Create security group. The main content area has three tabs: Basic details, Inbound rules, and Outbound rules. The Basic details tab is active, showing fields for Security group name (MyWebServerGroup), Description (Allows SSH access to developers), and VPC (vpc-0e345f19effbea822). The Inbound rules tab shows a note: "This security group has no inbound rules." with an "Add rule" button. The Outbound rules tab shows four tabs: Type, Protocol, Port range, and Destination, all with their respective "Info" links. The status bar at the bottom indicates: © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences. CloudShell Feedback 30°C Sunny Search ENG IN 13:39 06-02-2025.

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateSecurityGroup

EC2 > Security Groups > Create security group

### Create security group info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

**Basic details**

Security group name Info  
ALL-TRAFFIC-ALLOW  
Name cannot be edited after creation.

Description Info  
Allows SSH access to developers

VPC Info  
vpc-0e345f19effbea822

**Inbound rules** Info

This security group has no inbound rules.

Add rule

**Outbound rules** Info

Type	Protocol	Port range	Destination	Description - optional
All traffic	All	All	Anywhere	0.0.0.0/0

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CloudShell Feedback 30°C Sunny Search ENG IN 13:40 06-02-2025

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateSecurityGroup

EC2 > Security Groups > Create security group

### Create security group info

vpc-0e345f19effbea822

**Inbound rules** Info

Type	Protocol	Port range	Source	Description - optional
All traffic	All	All	Anywhere	0.0.0.0/0

Add rule

⚠ Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

**Outbound rules** Info

Type	Protocol	Port range	Destination	Description - optional
All traffic	All	All	Anywhere	0.0.0.0/0

Add rule

⚠ Rules with destination of 0.0.0.0/0 or ::/0 allow your instances to send traffic to any IPv4 or IPv6 address. We recommend setting security group rules to be more restrictive and to only allow traffic to specific known IP addresses.

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Screenshot of the AWS EC2 Security Groups console showing the creation of a new security group named "sg-Oeea8265816a26bec - ALL-TRAFFIC-ALLOW".

**Details**

Security group name	ALL-TRAFFIC-ALLOW	Security group ID	sg-Oeea8265816a26bec
Owner	195275659054	Description	my all traffic security group
		Inbound rules count	1 Permission entry
		Outbound rules count	1 Permission entry

**VPC ID:** vpc-0e345f19effbea822

**Inbound rules (1)**

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source
-	sgr-063f67ea0dd984c10	IPv4	All traffic	All	All	0.0.0.0/0

Screenshot of the AWS EKS Cluster creation wizard, Step 2: Specify networking.

**Specify networking**

**Networking** (Info)  
IP address family and service IP address range cannot be changed after cluster creation.

**VPC** (Info)  
Select a VPC to use for your EKS cluster resources.  
vpc-0e345f19effbea822 | Default

**Subnets** (Info)  
Choose the subnets in your VPC where the control plane may place elastic network interfaces (ENIs) to facilitate communication with your clusters. To create a new subnet, go to the corresponding page in the VPC console.

subnet-0490ebeb209cd48f eu-north-1a 172.31.16.0/20	subnet-04bd5fb4ac1b8365e eu-north-1b 172.31.32.0/20	subnet-03d77b3f5d3349800 eu-north-1c 172.31.0/20
---	--	---

**Additional security groups - optional** (Info)  
EKS automatically creates a cluster security group on cluster creation to facilitate communication between worker nodes and control plane. Optionally, choose additional security groups to apply to the EKS-managed Elastic Network Interfaces that are created in your control plane subnets. To create a new security group, go to the corresponding page in the VPC console.

Select security groups	sg-Oeea8265816a26bec   ALL-TRAFFIC-ALLOW my all traffic security group
------------------------	---

**Choose cluster IP address family** (Info)  
Specify the IP address type for pods and services in your cluster.

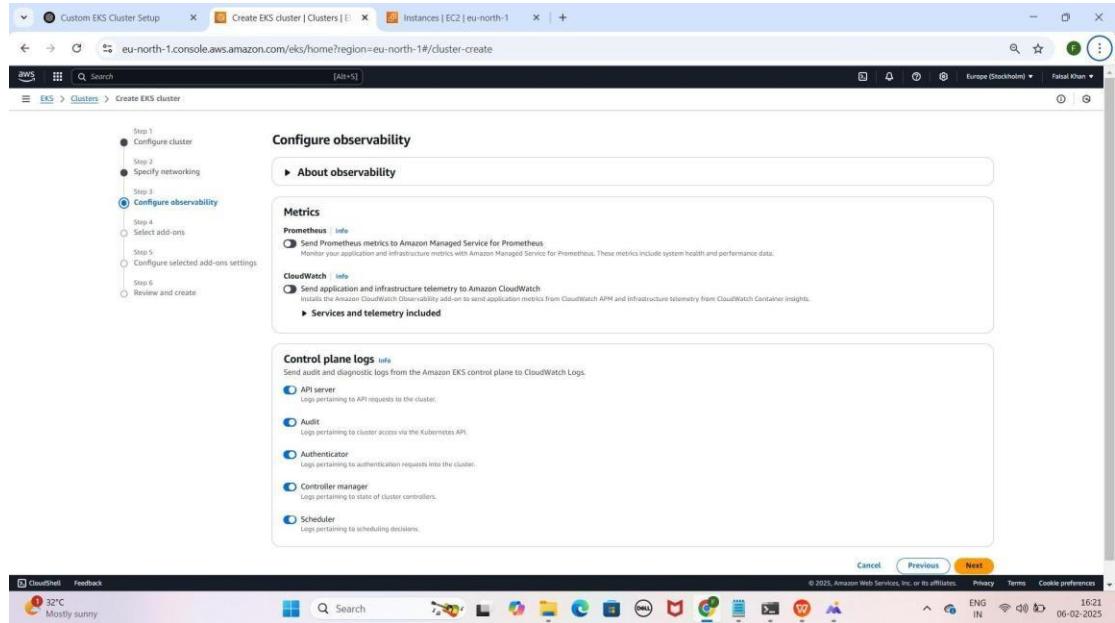
IPv4  
 IPv6

**Configure Kubernetes service IP address block** (Info)

## Step 5: Observability Configure Karna

1. "Configure observability" section mein
2. "Control Plane Logs" enable karo
3. Next pe click karo

YE KUCH ISTARHA LAGEGA



## Step 6: Add-ons Configure Karna

1. "Select add-ons" section mein kuch default selected add-ons honge, unko waise hi rehne do
2. Next pe click karo

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The screenshot shows the AWS EKS Create Cluster wizard at Step 4: Select add-ons. On the left, a sidebar lists steps from 1 to 6. Step 4 is highlighted with a blue circle. The main area is titled "Select add-ons" and contains a heading "AWS add-ons (14) info". Below this, there are six cards, each with an orange hexagonal icon containing a white letter "K".

- CoreDNS** (Info): Enable service discovery within your cluster.  
Category: networking  
Compatible compute: EC2, Hybrid Nodes, Fargate, EKS Auto Mode
- kube-proxy** (Info): Enable service networking within your cluster.  
Category: networking  
Compatible compute: EC2, Hybrid Nodes
- Node monitoring agent** (Info): Enable automatic detection of node health issues.  
Category: observability  
Compatible compute: EC2
- Amazon VPC CNI** (Info):
- Amazon GuardDuty EKS Runtime** (Info):
- Mountpoint for Amazon S3 CSI Driver** (Info):

The screenshot shows the AWS EKS Create Cluster wizard at Step 5: Configure selected add-ons settings. The sidebar shows Step 5 is selected. The main area displays three third-party add-ons:

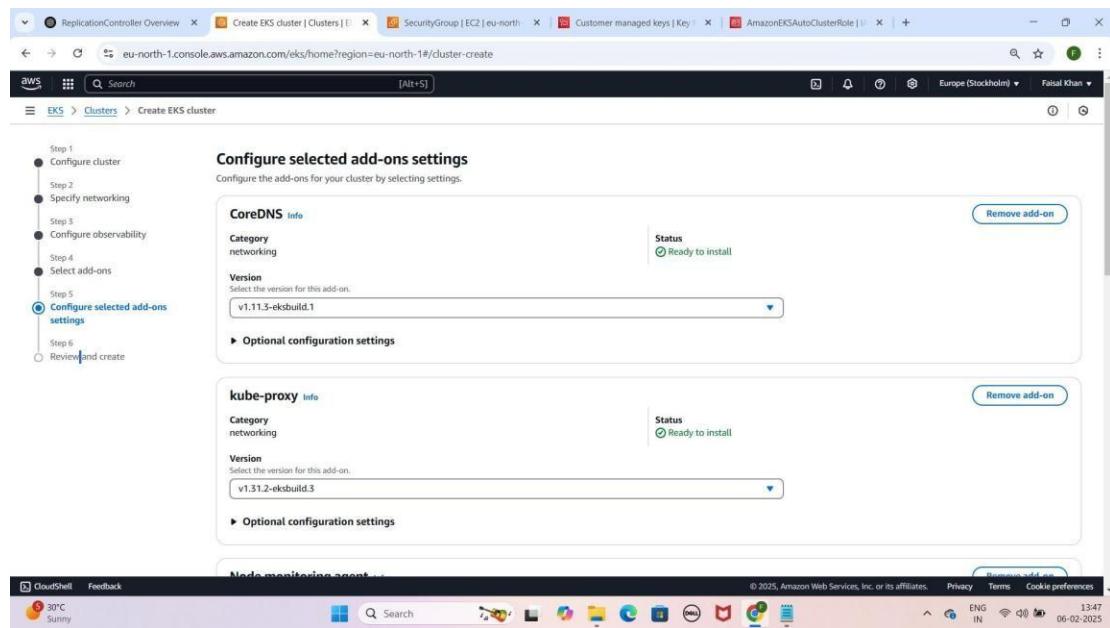
- StormForge Optimize Live - Autonomous K8s Workload Rightsizing**: Listed by StormForge. Category: cost-management. Supported versions: 1.30, 1.29, 1.28, 1.27, 1.26, 1.25, 1.24, 1.23. Pricing starting at View pricing details.
- Guance Container Agent**: Listed by Guance. Category: monitoring. Supported versions: 1.30, 1.29, 1.28, 1.27, 1.26, 1.25, 1.24. Pricing starting at View pricing details.
- Kong Konnect Dataplane - EKS Add On**: Listed by Kong. Category: ingress-service-type. Supported versions: 1.28, 1.27, 1.26, 1.25, 1.24, 1.23. Pricing starting at View pricing details.

At the bottom right, there are "Cancel", "Previous", and "Next" buttons. The status bar at the bottom shows "CloudShell Feedback", weather "25°C Haze", and system information like "ENG IN 06-02-2025 13:46".

## Step 7: Control Plane Logs Enable Karne ke baad

1. All Control Plane Logs enable karne ke baad.
2. Amazon VPC CNI section mein jao, Create Recommended Role pe click karo.
3. Use Case: EKS pre-selected hoga.
4. Attach Policies:
  1. AdministratorAccess
  2. AmazonEKS\_CNI\_Policy
5. Role Name: PODS-ROLE
6. Create Role pe click karo.
7. Wapas EKS Console jao, Amazon VPC CNI ke liye PODS-ROLE select karo.
8. Review & Create karo, phir Create Cluster pe click karo.

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Screenshot of the AWS EKS Cluster creation page showing optional configuration settings for Amazon VPC CNI and Metrics Server add-ons.

**Amazon VPC CNI**

- Category:** networking
- Status:** Ready to install
- Version:** v1.19.0-eksbuild.1
- Add-on access:** Pod Identity IAM role for service account: aws-node
- POD-ROLE:** Select an IAM role to use with this add-on. This dropdown only contains IAM roles with the pods.eks.amazonaws.com service principal in the trust policy of the IAM role.
- Create recommended role**

**Metrics Server**

- Category:** observability
- Status:** Ready to install
- Version:** v0.7.2-eksbuild.1

CloudShell Feedback 22°C Sunny Search Privacy ENG IN 06-02-2025

Screenshot of the AWS IAM Role creation page for an EKS Pod Identity role.

**Step 1: Select trusted entity**

**Trusted entity type:**

- AWS service:** Allows AWS services like EC2, Lambda, or others to perform actions in this account.
- AWS account:** Allows entities in other AWS accounts belonging to you or a third party to perform actions in this account.
- Web identity:** Allows entities federated by the specified external web identity provider to assume this role to perform actions in this account.
- SAML 2.0 Federation:** Allows entities federated with SAML 2.0 from a corporate directory to perform actions in this account.
- Custom trust policy:** Create a custom trust policy to enable others to perform actions in this account.

**Use case:** Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

**Service or use case:** EKS

CloudShell Feedback 32°C Search Privacy ENG IN 14:06

Screenshot of the AWS IAM 'Create role' wizard Step 2: Add permissions.

The 'Permissions policies (2/1032)' section shows a list of AWS managed policies. One policy, 'AdministratorAccess', is selected and highlighted in blue.

Policy name	Type
AdministratorAccess	AWS managed - job function
AdministratorAccess-Amplify	AWS managed
AdministratorAccess-AWSElasticBeanstalk	AWS managed
AIOpsAssistantPolicy	AWS managed
AIOpsConsoleAdminPolicy	AWS managed
AIOpsOperatorAccess	AWS managed
AIOpsReadOnlyAccess	AWS managed
AlexaForBusinessDeviceSetup	AWS managed
AlexaForBusinessFullAccess	AWS managed
AlexaForBusinessGatewayExecution	AWS managed

CloudShell and system status bar at the bottom indicate: 32°C Sunny, ENG IN, 14:06, 06-02-2025.

Screenshot of the AWS IAM 'Create role' wizard Step 2: Add permissions.

The 'Permissions policies (2/1032)' section shows a filtered list of policies. One policy, 'AmazonEKS\_CNI\_Policy', is selected and highlighted in blue.

Policy name	Type
AmazonEKS_CNI_Policy	AWS managed

A note below the table says: '▶ Set permissions boundary - optional'. Navigation buttons 'Cancel', 'Previous', and 'Next' are visible at the bottom right.

CloudShell and system status bar at the bottom indicate: 32°C Sunny, ENG IN, 14:06, 06-02-2025.



Screenshot of the AWS IAM 'Create role' wizard - Step 1: Name, review, and create.

**Role details**

**Role name:** PODS-ROLE

**Description:** Allows pods running in Amazon EKS cluster to access AWS resources.

**Step 1: Select trusted entities**

**Trust policy:**

```
1: {  
2:     "Version": "2012-10-17",  
3:     "Statement": [  
4:         {  
5:             "Effect": "Allow",  
6:             "Principal": {  
7:                 "Service": [  
8:                     "pods.eks.amazonaws.com"  
9:                 ]  
10:            },  
11:            "Action": [  
12:                "sts:AssumeRole"  
13:            ]  
14:        }  
15:    ]  
16:}
```

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Screenshot of the AWS EKS 'Create EKS cluster' wizard - Step 1: Cluster.

**Review and create**

**Step 1: Cluster**

**Cluster configuration**

- Name:** Faisal
- Kubernetes version:** 1.31
- EKS Auto Mode:** Disabled
- Upgrade policy:** Standard
- Cluster IAM role:** arn:aws:iam::195275659054:role/AmazonEKSAutoClusterRole
- Kubernetes cluster administrator access:** Allow cluster administrator access
- Authentication mode:** EKS API

**Secrets encryption**

These properties cannot be changed after the cluster is created.

- Secrets encryption:** on
- KMS key ID:** d80ba9f9-b99e-4878-a392-bf744e75fe6c

**ARC Zonal shift**

ARC Zonal shift: Disabled

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Screenshot of the AWS EKS Cluster Overview page for cluster "Faisal".

**Cluster Info:**

- Status: Creating
- Kubernetes version: 1.31
- Support period: Standard support until November 26, 2025
- Provider: EKS

**Cluster Health Issues:** 0

**Upgrade Insights:** 0

**Node Health Issues:** 0

**Details:**

- API server endpoint: https://FC4C55868754B8E12A1AAB5CE27937ED.gr7.eu-north-1.eks.amazonaws.com
- OpenID Connect provider URL: -
- Cluster IAM role ARN: arn:aws:iam::195275659054:role/AmazonEKSAutoClusterRole
- Created: a few seconds ago
- Cluster ARN: arn:aws:eks:eu-north-1:195275659054:cluster/Faisal
- Platform version: 1.31

**CloudShell:** Feedback

Screenshot of the AWS EKS Clusters page.

**Clusters (1) Info:**

Cluster name	Status	Kubernetes version	Support period	Upgrade policy	Created	Provider
Faisal	Creating	1.31	Standard support until November 26, 2025	Standard	a minute ago	EKS

<https://eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#clusters>

The screenshot shows the AWS EKS Clusters console. On the left, there's a sidebar with navigation links for Amazon Elastic Kubernetes Service, Clusters, Amazon EKS Anywhere, Enterprise Subscriptions, and Related services (Amazon ECR, AWS Batch). Below the sidebar are links for Console settings, Documentation, and Submit feedback. The main area is titled 'Clusters (1) Info' and contains a table with one row. The table columns are Cluster name, Status, Kubernetes version, Support period, Upgrade policy, Created, and Provider. The single cluster listed is 'Faisal', which is Active, running version 1.31, has a support period until November 26, 2025, a Standard upgrade policy, was created 18 minutes ago, and is an EKS provider. At the top of the page, there are several tabs: ReplicationController Overview, Clusters | Elastic Kubernetes, Roles | IAM | Global, Create role | IAM | Global, SecurityGroup | EC2 | eu-north-1, and Customer managed keys. The browser address bar shows 'eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#/clusters'. The bottom of the screen shows a Windows taskbar with various pinned icons and system status indicators.

Cluster name	Status	Kubernetes version	Support period	Upgrade policy	Created	Provider
Faisal	Active	1.31	Standard support until November 26, 2025	Standard	18 minutes ago	EKS

**NOTE: Ab 15–20 minutes ka wait karein, aur har 5 minute baad page refresh karte rahein. Aapka cluster jaldi active ho jayega.**

## Step 8: Node Group Create Karna

1. EKS Console pe jao, cluster select karo.
2. Compute section mein Add Node Group pe click karo.
3. Node Group Name: Faisal-Node --> (Aapka Name Likho)

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This screenshot shows the 'Cluster info' tab of the EKS cluster 'Faisal'. It displays basic cluster details: Status (Active), Kubernetes version (1.31), Support period (Standard support until November 26, 2025), and Provider (EKS). It also shows cluster health issues, upgrade insights, and node health issues, all of which are currently green (0 issues).

This screenshot shows the 'Compute' tab of the EKS cluster 'Faisal'. It displays the 'Nodes (0)' section, which is currently empty. A note indicates that the cluster does not have any nodes or the user lacks permission to view them. Below this is the 'Node groups (0)' section, which also contains an 'Add node group' button.

The screenshot shows the AWS EKS Cluster Overview page for the 'Faisal' cluster. On the left, there's a sidebar with 'Amazon Elastic Kubernetes Service' and 'Clusters'. Under 'Clusters', it shows 'Amazon EKS Anywhere' and 'Related services' like Amazon ECR and AWS Batch. Below that are 'Console settings', 'Documentation', and 'Submit feedback'. The main content area has tabs for 'Nodes', 'Roles | IAM | Global', 'Create role | IAM | Global', 'SecurityGroup | EC2 | eu...', and 'Customer managed keys'. The 'Nodes' tab is selected, showing a table with columns: Node name, Instance type, Compute, Managed by, Created, and Status. A search bar at the top says 'Filter Nodes by property or value'. Below the table, it says 'No Nodes' and 'This cluster does not have any Nodes, or you don't have permission to view them.' There are sections for 'Node groups (0) Info', 'Fargate profiles (0) Info', and 'Add node group' buttons.

The screenshot shows the 'Configure node group' step in the AWS EKS Node group creation wizard. It's Step 1 of 4. The steps are: Step 1 (Configure node group), Step 2 (Set compute and scaling configuration), Step 3 (Specify networking), and Step 4 (Review and create). The 'Configure node group' section contains fields for 'Name' (Type name) and 'Node IAM role' (Select role). A note says: 'The selected role must not be used by a self-managed node group as this could lead to a service interruption upon managed node group deletion.' Below that is the 'Launch template' section, which says: 'Use launch template' and 'Configure this node group using an EC2 launch template.' A Snipping Tool window is overlaid on the bottom right, showing a screenshot of the 'Screenshot copied to clipboard' message.

Screenshot of the AWS EKS Node Group creation wizard, Step 1: Configure node group.

The page shows a navigation bar with tabs: ReplicationController Overview, Add node group | Node group, NODE-ROLE | IAM | Global, and SecurityGroup | EC2 | eu-north. The main content area has a breadcrumb trail: EKS > Clusters > Faisal > Node groups > Add node group.

**Configure node group** Info

A node group is a group of EC2 instances that supply compute capacity to your Amazon EKS cluster. You can add multiple node groups to your cluster.

**Node group configuration**

These properties cannot be changed after the node group is created.

**Name**

Assign a unique name for this node group.

The node group name should begin with letter or digit and can have any of the following characters: the set of Unicode letters, digits, hyphens and underscores. Maximum length of 63.

**Node IAM role** Info

Select the IAM role that will be used by the nodes. To create a new role, go to the [IAM console](#).

(?) The selected role must not be used by a self-managed node group as this could lead to a service interruption upon managed node group deletion.

[Learn more](#)

**Launch template** Info

These properties cannot be changed after the node group is created.

**Use launch template**

Configure this node group using an EC2 launch template.

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**4. IAM Role Create Karna: Node IAM Role ke liye.**

**5. Create Recommended Role pe click karo.**

**6. Use Case: EC2 select hoga.**

- AdministratorAccess
- AmazonEC2ContainerRegistryReadOnly
- AmazonEKS\_CNI\_Policy
- AmazonEKSClusterPolicy
- AmazonEKSLoadBalancingPolicy
- AmazonEKSNetworkingPolicy
- AmazonEKSWorkerNodePolicy
- AmazonSSMManagedInstanceCore
- AWSLoadBalancerControllerIAMPolicy
- EC2InstanceConnect
- ElasticLoadBalancingFullAccess

**7. Role Name: NODE-ROLE**

**8. Create Role pe click karo.**

**9. EKS Console wapas jao, NODE-ROLE select karo**

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The screenshot shows the 'Create role' wizard in the AWS IAM console. The current step is 'Select trusted entity'. On the left, a sidebar lists steps: Step 1 (selected), Step 2, Step 3. The main area shows the 'Trusted entity type' section with four options:

- AWS service: Allows AWS services like EC2, Lambda, or others to perform actions in this account.
- AWS account: Allows entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- Web identity: Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- SAML 2.0 federation: Allows users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- Custom trust policy: Creates a custom trust policy to enable others to perform actions in this account.

Below this is the 'Use case' section, which says "Allow an AWS service like EC2, Lambda, or others to perform actions in this account." A dropdown menu shows "EC2" selected. Under "Service or use case", it says "Choose a use case for the specified service." and "Use case". The "EC2" option is selected, with a description: "Allows EC2 Instances to call AWS services on your behalf." Other options are "EC2 Role for AWS Systems Manager" and "EC2 Spot Fleet Role".

Screenshot of the AWS IAM console showing the creation of a new role named "NODE-ROLE".

**Permissions policies (11)**

Policy name	Type	Attached entities
AdministratorAccess	AWS managed - job function	6
AmazonEC2ContainerRegistryReadOnly	AWS managed	3
AmazonEKS_CNI_Policy	AWS managed	4
AmazonEKSClusterPolicy	AWS managed	3
AmazonEKSLoadBalancingPolicy	AWS managed	3
AmazonEKSNetworkingPolicy	AWS managed	3
AmazonESWorkerNodePolicy	AWS managed	5
AmazonSSMManagedInstanceCore	AWS managed	5
AWSShieldBalanceControllerIAMPolicy	Customer inline	0
EC2InstanceConnect	AWS managed	5
ElasticLoadBalancingFullAccess	AWS managed	1

**Permissions boundary (not set)**

**Role details**

**Step 1: Select trusted entities**

**Trust policy**

```

1- [{
2-   "Version": "2012-10-17",
3-   "Statement": [
4-     {
5-       "Effect": "Allow",
6-       "Action": [
7-         "sts:AssumeRole"
8-       ],
9-       "Principal": [
10-         "arn:aws:iam::123456789012:root"
11-       ]
12-     }
13-   ]
14- }
]

```

ReplicationController Overview   Add node group | Node group   NODE-ROLE | IAM | Global   SecurityGroup | EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#/clusters/Faisal/add-node-group

aws Search [Alt+S]

EKS > Clusters > Faisal > Node groups > Add node group

Step 1  
 Configure node group  
 Step 2  
 Set compute and scaling configuration  
Step 3  
 Specify networking  
Step 4  
 Review and create

**Configure node group** Info

A node group is a group of EC2 instances that supply compute capacity to your Amazon EKS cluster. You can add multiple node groups to your cluster.

**Node group configuration**

These properties cannot be changed after the node group is created.

**Name**  
Assign a unique name for this node group.  
Faisal-Node

The node group name should begin with letter or digit and can have any of the following characters: the set of Unicode letters, digits, hyphens and underscores. Maximum length of 63.

**Node IAM role** Info

Select the IAM role that will be used by the nodes. To create a new role, go to the [IAM console](#).

NODE-ROLE

ⓘ The selected role must not be used by a self-managed node group as this could lead to a service interruption upon managed node group deletion.

[Learn more](#)

**Launch template** Info

These properties cannot be changed after the node group is created.

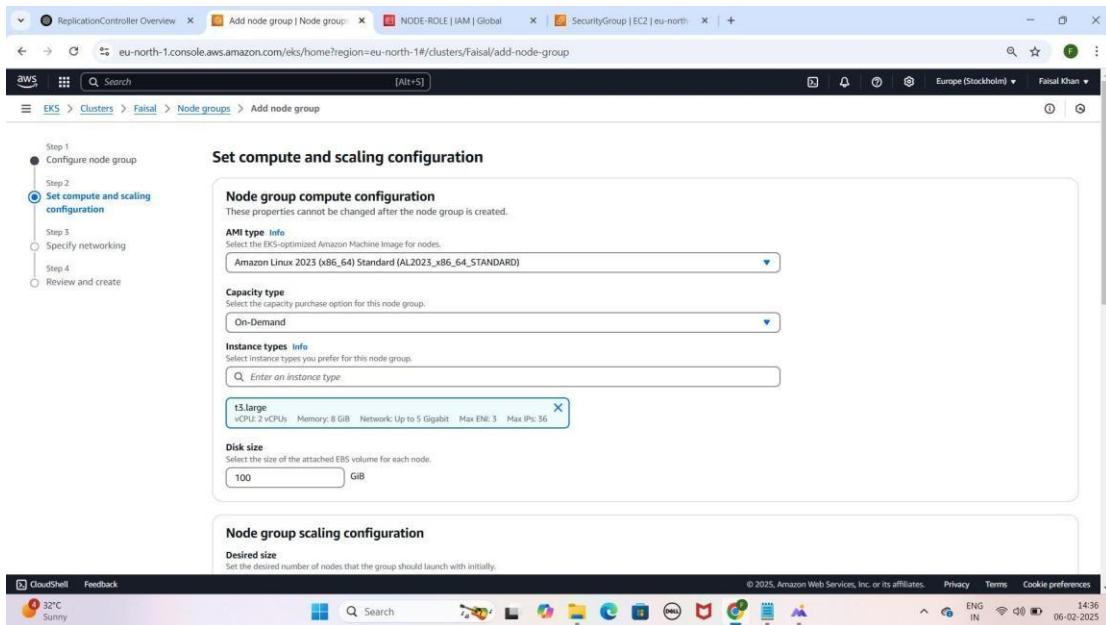
Use launch template  
Configure this node group using an EC2 launch template.

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## Step 9: Compute & Scaling Configurations

1. **Instance Type:** t3.large select karo
2. **Disk Size:** 100 GiB
3. **Desired Size:** 1
4. **Min & Max Size:** 1
5. **Node Auto Repair** enable karo.

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Screenshot of the AWS EKS Node Group configuration page.

The URL is [eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#/clusters/faisal/add-node-group](https://eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#/clusters/faisal/add-node-group)

**Node group scaling configuration**

**Desired size**  
Set the desired number of nodes that the group should launch with initially.  
 nodes  
Desired node size must be greater than or equal to 0

**Minimum size**  
Set the minimum number of nodes that the group can scale in to.  
 nodes  
Minimum node size must be greater than or equal to 0

**Maximum size**  
Set the maximum number of nodes that the group can scale out to.  
 nodes  
Maximum node size must be greater than or equal to 1 and cannot be lower than the minimum size

**Node group update configuration**

**Maximum unavailable**  
Set the maximum number or percentage of unavailable nodes to be tolerated during the node group version update.

Number  
Enter a number  
 node

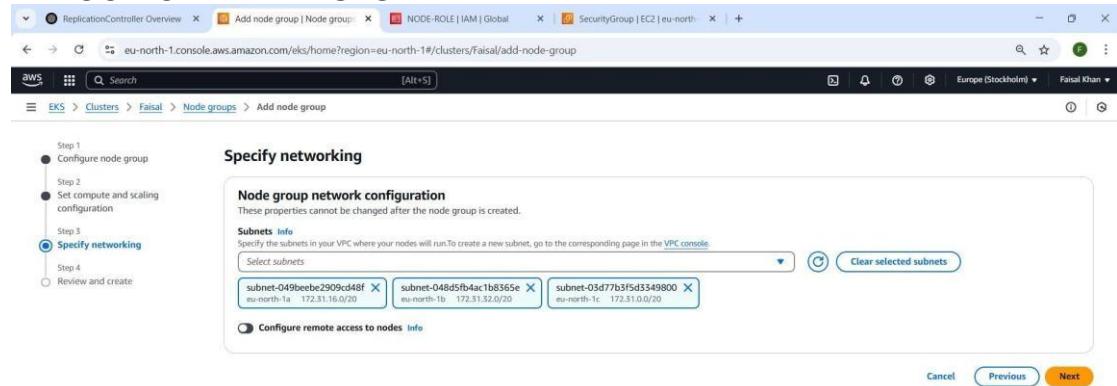
Percentage  
Specify a percentage

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## Step 10: Specify Networking

1. Configure Remote Access enable karo.
2. Key Pair select karo.
3. Security Group: ALL-TRAFFIC-ALLOW select karo.
4. Review & Create karo, phir Create Node Group pe click karo.
5. EC2 Console jao, Instances section mein Faisal-Node instance rename karo --> (Aapka Name Likho)

YE KUCH ISTARHA LAGEGA



ReplicationController Overview | Add node group | NODE-ROLE | IAM | Global | SecurityGroup | EC2 | eu-north-1 | +

eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#/clusters/Faisal/add-node-group

aws Search [Alt+S]

EKS > Clusters > Faisal > Node groups > Add node group

**Node group network configuration**

Step 3: Specify networking

Subnets info: Specify the subnets in your VPC where your nodes will run. To create a new subnet, go to the corresponding page in the VPC console.

Select subnets: subnet-049beebe2909cd48f (eu-north-1a), subnet-048d5fb4ac1b8365e (eu-north-1b), subnet-03d77b3f5d5349800 (eu-north-1c)

Configure remote access to nodes info: EC2 Key Pair: Select an EC2 key pair to allow secure remote access to your nodes. To create a new EC2 key pair, go to the corresponding page in the EC2 console.

Allow remote access from: Selected security groups: sg-0ea8265816a26bec (ALL-TRAFFIC-ALLOW)

Additional security groups - optional: Select security groups: sg-0ea8265816a26bec (ALL-TRAFFIC-ALLOW)

Cancel Previous Next

CloudShell Feedback 32°C Sunny 22°C 32°C Sunny 06-02-2025

ReplicationController Overview | Add node group | NODE-ROLE | IAM | Global | SecurityGroup | EC2 | eu-north-1 | +

eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#/clusters/Faisal/add-node-group

aws Search [Alt+S]

EKS > Clusters > Faisal > Node groups > Add node group

**Review and create**

**Step 1: Node group**

**Node group configuration**

Name: Faisal-Node Node IAM role: arn:aws:iam::195275659054:role/NODE-ROLE

**Kubernetes labels (0)**

No labels. This node group does not have any Kubernetes labels.

**Kubernetes taints (0)**

Filter by key, value or effect

Key Value Effect

CloudShell Feedback 32°C Sunny 06-02-2025

ReplicationController Overview | Add node group | Node group: Faisal | NODE-ROLE | IAM | Global | SecurityGroup | EC2 | eu-north-1 | +

eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#/clusters/Faisal/add-node-group

EKS > Clusters > Faisal > Node groups > Add node group

Node group update configuration

Maximum unavailable: 1 node

Update strategy: Default

Node auto repair configuration

Node auto repair: Enabled

Step 3: Networking

Node group network configuration

Subnets:

- subnet-049beebe2909cd48f
- subnet-048dfb4ac1b1b365e
- subnet-03d77b3f5d3349800

Configure remote access to nodes on:

EC2 Key Pair: WEB

Allow remote access from:

sg-0eaa8265816a26bec

Cancel Previous Create

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ReplicationController Overview | Faisal-Node | Node groups | Faisal | NODE-ROLE | IAM | Global | SecurityGroup | EC2 | eu-north-1 | +

eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#/clusters/Faisal/nodegroups/Faisal-Node

EKS > Clusters > Faisal > Node groups > Faisal-Node

Amazon Elastic Kubernetes Service

Clusters

Amazon EKS Anywhere

Related services

Amazon ECR

AWS Batch

Console settings

Documentation

Submit feedback

Node group creation in progress

Faisal-Node is now being created. This process may take several minutes.

Faisal-Node

Node group configuration

Kubernetes version: 1.31

AMI type: AL2023\_x86\_64\_STANDARD

Status: Creating

AMI release version: 1.31.4-20250203

Instance types: t3.large

Disk size: 100 GiB

Details Nodes Health issues 0 Kubernetes labels Update config Kubernetes taints Update history Tags

Details

Node group ARN: arn:aws:eks:eu-north-1:195275659054:nodegroup/Faisal/Faisal-Node/1aca6d43-2947-d8a0-2656-aad46912aadd

Created: a few seconds ago

Autoscaling group name: (empty)

Capacity type: On-Demand

Desired size: 1 node

Minimum size: 1 node

Maximum size: 1 node

Subnets:

- subnet-049beebe2909cd48f
- subnet-048dfb4ac1b1b365e
- subnet-03d77b3f5d3349800

Configure remote access to nodes on:

EC2 Key Pair: WEB

Allow remote access from:

CloudShell Feedback 32°C Sunny Search Privacy Terms Cookie preferences © 2025, Amazon Web Services, Inc. or its affiliates. ENG IN 06-02-2025 14:40

ReplicationController Overview | Faisal-Node | Node groups | Fais | eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#clusters/faisal/nodegroups/Faisal-Node

aws | ec2 | EKS > Services | Features | Resources | Documentation | Knowledge articles | Marketplace | Blog posts | Events | Tutorials

**Services**

- EC2 Virtual Servers in the Cloud
- EC2 Image Builder A managed service to automate build, customize and deploy OS images
- EC2 Global View EC2 Global View provides a global dashboard and search functionality that lets you ...

**Features**

- Dashboard EC2 feature
- AMIs EC2 feature
- EC2 Instances CloudWatch feature

Status Creating  
Disk size 100 GiB

Creates taints | Update history | Tags

Subnets subnet-049bebe2909cd48f [ ]  
subnet-048d5fb4ac1b8365c [ ]  
subnet-03d77b3fd3349800 [ ]

Configure remote access to nodes on  
EC2 Key Pair WEB  
Allow remote access from 59-Deea8265816a26bec [ ]

CloudShell Feedback 32°C Sunny Search ENG IN 06-02-2025

ReplicationController Overview | Faisal-Node | Node groups | Fais | Instances | EC2 | eu-north-1 | eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#instancesv=3\$case=tagtrue%5Cclient=false\$regex=tagsfalse%5Cclient=false

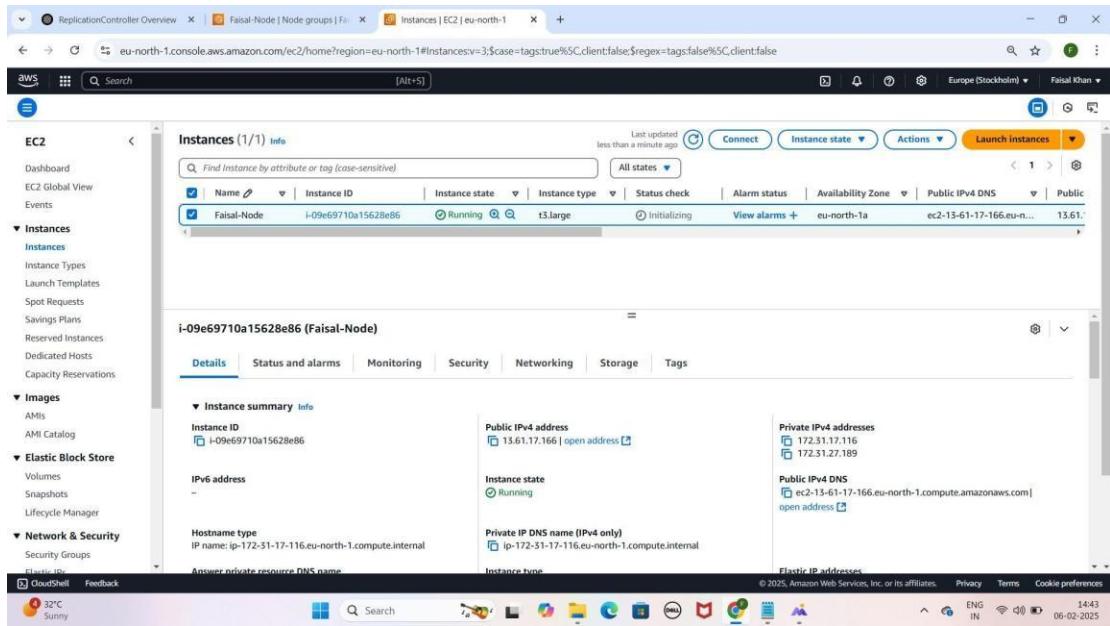
aws | Search [Alt+S] | Instances (1) info

Last updated less than a minute ago Connect Instance state Actions Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
i-09e69710a15628e86	Running	t3.large	Initializing			eu-north-1a	ec2-13-61-17-166.eu-n...	13.61.1

Select an instance

CloudShell Feedback 32°C Sunny Search ENG IN 06-02-2025



## Step 11: Cluster Security Group Update Karna

1. EKS Console pe jao, **cluster** select karo.
2. **Networking** tab mein **Cluster Security Group** open karo.
3. **Inbound Rules Edit Karo:**
  1. Default rule remove karo.
  2. **New Rule:**
    1. **Type:** All Traffic
    2. **Source:** Anywhere IPv4
4. **Save Rules** pe click karo.

YE KUCH ISTARHA LAGEGA

The screenshot shows the AWS EKS Clusters page. On the left, there's a sidebar with 'Amazon Elastic Kubernetes Service' and 'Clusters'. Under 'Related services', it lists 'Amazon EKS Anywhere', 'Enterprise Subscriptions', 'Amazon ECR', and 'AWS Batch'. The main area is titled 'Clusters (1) Info' with a search bar. A table lists one cluster: 'Faisal' (Cluster name), Active (Status), 1.31 (Kubernetes version), Standard support until November 26, 2025 (Support period), Standard (Upgrade policy), 35 minutes ago (Created), and EKS (Provider). At the top right, there are 'Delete' and 'Create cluster' buttons. The bottom of the screen shows a Windows taskbar with various icons and the date/time: 06-02-2025, 14:43, ENG IN.

ReplicationController Overview Faisal | Clusters | Elastic Kube... Instances | EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/eks/home?region=eu-north-1#clusters/faisal:selectedTab=cluster-networking-tab

Clusters EKS > Clusters > Faisal

## Faisal

End of standard support for Kubernetes version 1.31 is November 26, 2025. On that date, your cluster will enter the extended support period with additional fees. For more information, see the [pricing page](#).

**Cluster info**

Status: Active	Kubernetes version: 1.31	Support period: Standard support until November 26, 2025	Provider: EKS
Cluster health issues: 0	Upgrade insights: 3 (green), 1 (red)	Node health issues: 0	

Overview Resources Compute Networking Add-ons Access Observability Update history Tags

**Networking**

VPC: Info vpc-0e345f19effbea822 [2]	Subnets: subnet-049bbebe2909cd48f [2] subnet-048d5fb4ac1b8365e [2] subnet-03d77b3f5d3549800 [2]	Cluster security group: Info sg-035be160063370b54 [2]	API server endpoint access: Info Public and private
Cluster IP address family: Info IPv4		Additional security groups: sg-0eea8265816a26bec [2]	Public access source allowlist: 0.0.0.0/0 (open to all traffic)
Service IPv4 range: Info 10.100.0.0/16			

Manage VPC resources Manage endpoint access

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ReplicationController Overview Faisal | Clusters | Elastic Kube... Instances | EC2 | eu-north-1 VPC | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#SecurityGroup/group-id=sg-035be160063370b54

VPC > Security Groups > sg-035be160063370b54 - eks-cluster-sg-Faisal-2096863792

## sg-035be160063370b54 - eks-cluster-sg-Faisal-2096863792

**Actions**

**Details**

Security group name: eks-cluster-sg-Faisal-2096863792	Security group ID: sg-035be160063370b54	Description: EKS-created security group applied to ENI that is attached to EKS Control Plane master nodes, as well as any managed workloads.
Owner: 195275659054	Inbound rules count: 1 Permission entry	Outbound rules count: 1 Permission entry

Inbound rules Outbound rules Sharing - new VPC associations - new Tags

**Inbound rules (1)**

Name	Security group rule ID	IP version	Type	Protocol	Port range
-	sgr-00x0d6faed71e3eb	-	All traffic	All	All

Manage tags Edit inbound rules

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**Edit inbound rules** Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-00c0d6faed71e5efb	All traffic	Info	All	All	sg-035be160063370b54

**Add rule** Cancel Preview changes Save rules



**Edit inbound rules** Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

This security group has no inbound rules.

**Add rule** Cancel Preview changes Save rules



The screenshot shows the 'Edit inbound rules' page for a security group. The title bar includes tabs for ReplicationController Overview, Faisal | Clusters | Elastic Kuber..., Instances | EC2 | eu-north-1, and VPC | eu-north-1. The main content area is titled 'Edit inbound rules' with a 'Info' link. It states 'Inbound rules control the incoming traffic that's allowed to reach the instance.' Below this, a box labeled 'Inbound rules' contains the message 'This security group has no inbound rules.' A blue 'Add rule' button is visible. At the bottom right are 'Cancel', 'Preview changes', and a highlighted 'Save rules' button.



The screenshot shows the 'Edit inbound rules' page after adding a new rule. The 'Type' dropdown is set to 'All traffic', 'Protocol' to 'All', 'Port range' to 'All', and 'Source' to 'Any...'. The 'Description - optional' field is empty. A blue 'Add rule' button is visible. A yellow warning message at the bottom states: '⚠ Rules with source of 0.0.0.0/0 or /0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.' At the bottom right are 'Cancel', 'Preview changes', and a highlighted 'Save rules' button.



Screenshot of the AWS VPC console showing the modification of security group rules.

The browser tab bar shows: ReplicationController Overview | Faisal | Clusters | Elastic Kubernetes | Instances | EC2 | eu-north-1 | VPC | eu-north-1

The URL is: eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#SecurityGroup;group-id=sg-035be160063370b54

The AWS navigation bar includes: Search [Alt+S], Europe (Stockholm), Faisal Khan.

The main content area shows the "VPC dashboard" with the "Security Groups" section selected. A green notification bar at the top says: "Inbound security group rules successfully modified on security group (sg-035be160063370b54 | eks-cluster-sg-Faisal-2096863792) > Details".

The security group details page for "sg-035be160063370b54 - eks-cluster-sg-Faisal-2096863792" is displayed. It shows:

- Details**:
  - Security group name**: eks-cluster-sg-Faisal-2096863792
  - Security group ID**: sg-035be160063370b54
  - Description**: EKS created security group applied to ENI that is attached to EKS Control Plane master nodes, as well as any managed workloads.
  - VPC ID**: vpc-0e345f19effbea82
- Owner**: 195275659054
- Inbound rules count**: 1 Permission entry
- Outbound rules count**: 1 Permission entry

Below the details, there are tabs for Inbound rules, Outbound rules, Sharing - new, VPC associations - new, and Tags. The Inbound rules section shows one rule:

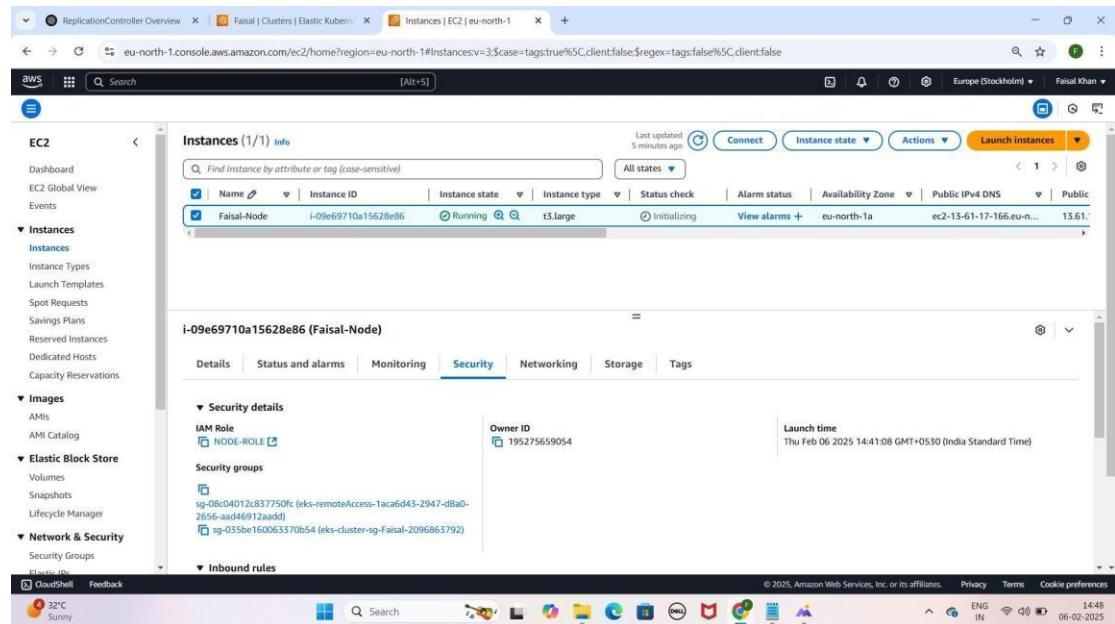
Name	Security group rule ID	IP version	Type	Protocol	Port range
-	sgr-00646ba6dc116bf2	IPv4	All traffic	All	All

The bottom of the page includes a footer with links to CloudShell, Feedback, and various AWS services. The system status bar shows: 32°C Sunny, ENG IN, 14:47, 06-02-2025.

## Step 12: Node Instance ke Security Group Update Karna

1. **EC2 Console** pe jao.
2. **Instances** section mein apni **Node Instance (Faisal-Node)** select karo.
3. **Security Tab** pe jao aur **Outbound Rules** ka **Security Group** open karo.
4. **Edit Inbound Rules** karo
  1. **Default rule remove** karo.
  2. **New Rule Add Karo:**
    1. **Type:** All Traffic 2.
    - Source:** Anywhere IPv4
5. **Save Rules** pe click karo.

YE KUCH ISTARHA LAGEGA



Screenshot of the AWS EC2 Instances page showing the configuration for an instance named "Faisal-Node".

The instance has two security groups assigned:

- sgr-025962bf79bfedaa5 (tcp port 22)
- sgr-00646ba6cd116bf2 (all ports)

Outbound rules table:

ID	Security group rule ID	Port range	Protocol	Destination	Security groups	Description
1	-	All	All	0.0.0.0/0	eks-remoteAccess-1aca6d43-2947-d...	-

CloudShell status: 32°C Sunny

Screenshot of the AWS EC2 Security Groups page showing a single security group named "eks-remoteAccess-1aca6d43-2947-d8a0-2656-aad46912aadd".

Name	Security group ID	Security group name	VPC ID	Description
sg-08c04012c837750fc	eks-remoteAccess-1aca6d43-2947-d8a...	vpc-0e345f19effbea822	Security group for all nodes in the node...	

CloudShell status: 32°C Sunny

Screenshot of the AWS Cloud Console showing the EC2 Security Groups page. The URL is eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#SecurityGroups:group-name=eks-remoteAccess-1aca6d43-2947-d8a0-2656-aad46912aadd. The page displays a single security group named 'eks-remoteAccess-1aca6d43-2947-d8a0-2656-aad46912aadd' with the following details:

Name	Security group ID	Security group name	VPC ID	Description
-	sg-08c04012e837750fc	eks-remoteAccess-1aca6d43-2947-d8a... vpc-0e345f19effbea822		Security group for all nodes in the node...

The left sidebar shows the EC2 navigation menu with 'Instances' selected. The bottom status bar shows the date as 06-02-2025 and the time as 14:50.

Screenshot of the AWS Cloud Console showing the EC2 Security Groups page. The URL is eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#SecurityGroups:group-name=eks-remoteAccess-1aca6d43-2947-d8a0-2656-aad46912aadd. The page displays a single security group named 'eks-remoteAccess-1aca6d43-2947-d8a0-2656-aad46912aadd' with the following details:

Name	Security group ID	Security group name	VPC ID	Description
-	sg-08c04012e837750fc	eks-remoteAccess-1aca6d43-2947-d8a... vpc-0e345f19effbea822		Security group for all nodes in the node...

The left sidebar shows the EC2 navigation menu with 'Instances' selected. The bottom status bar shows the date as 06-02-2025 and the time as 14:51.

The screenshot shows the AWS EC2 ModifyInboundSecurityGroupRules interface. A single inbound rule is listed:

Inbound rules	Type	Protocol	Port range	Source	Description - optional
sgr-025962bf79bfedaa5	SSH	TCP	22	Custom	sg-Deeca8265816a26bec

Buttons at the bottom include 'Add rule' (highlighted), 'Delete', 'Cancel', 'Preview changes', and 'Save rules'.

The screenshot shows the AWS EC2 ModifyInboundSecurityGroupRules interface. A new inbound rule is being added with the following details:

Inbound rules	Type	Protocol	Port range	Source	Description - optional
-	All traffic	All	All	Anywh...	0.0.0.0/0

A warning message at the bottom states: "⚠ Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only." Buttons at the bottom include 'Add rule' (highlighted), 'Delete', 'Cancel', 'Preview changes', and 'Save rules'.

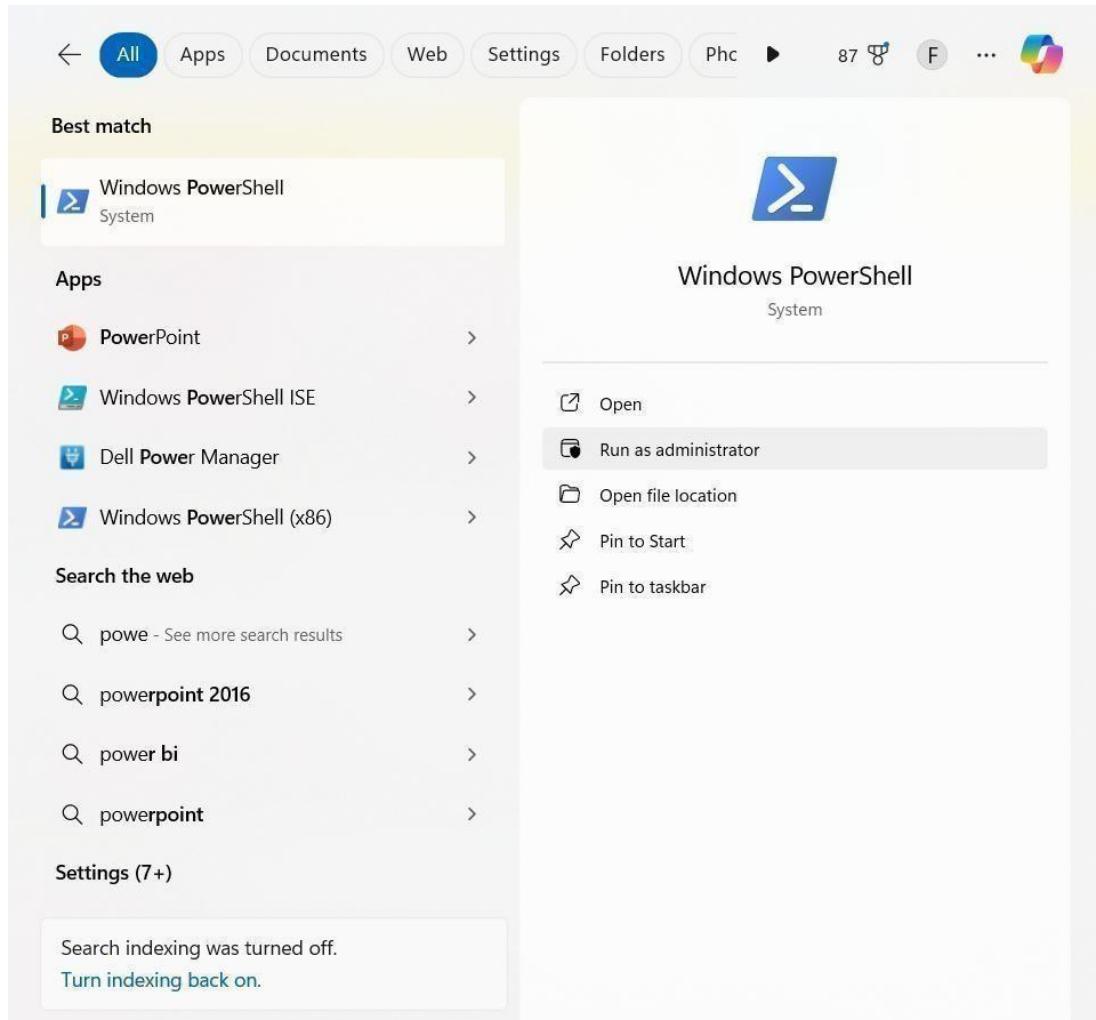
The screenshot shows the AWS EC2 ModifyInboundSecurityGroupRules interface after the new rule has been saved. The rule list now includes the new rule with a source of 0.0.0.0/0.

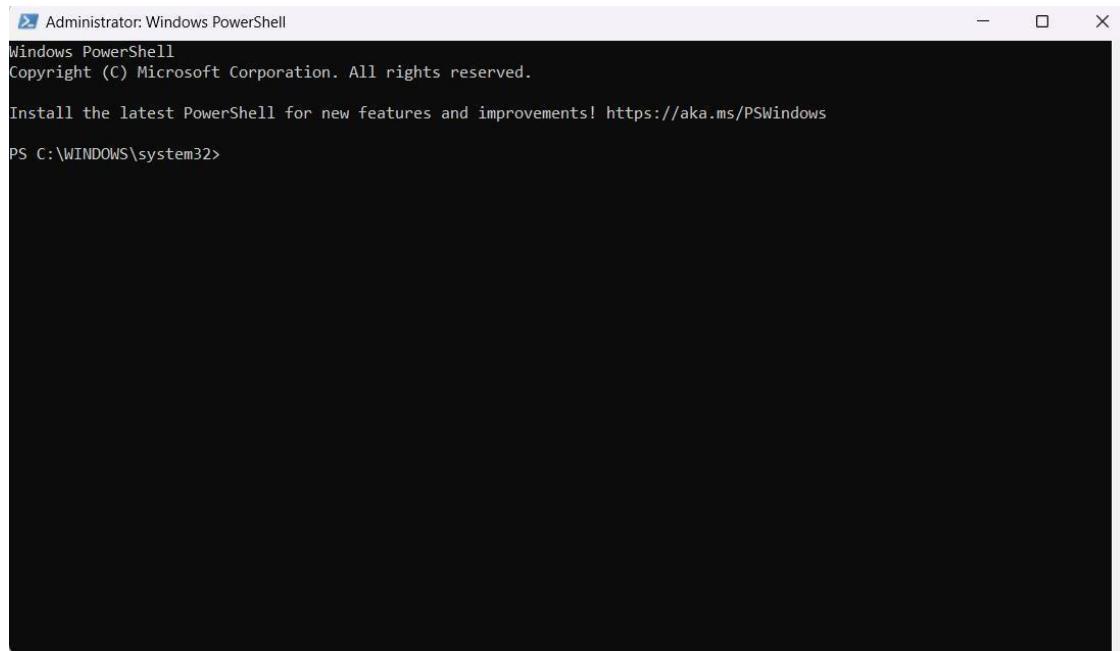
## **Part 2: Required Tools Install Karna**

- 1. Chocolatey Install karo**
- 2. Kubectl Install karo**
- 3. WSL Install karo (Future me iski zaroorat hogi)**
- 4. Docker Install karo WSL me (Future me iski zaroorat hogi)**
- 5. NPM Install karo WSL me (Future me iski zaroorat hogi)**
- 6. Git Install karo (Future me iski zaroorat hogi)**
- 7. AWS CLI**

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

YE KUCH ISTARHA LAGEGA





```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\WINDOWS\system32>
```

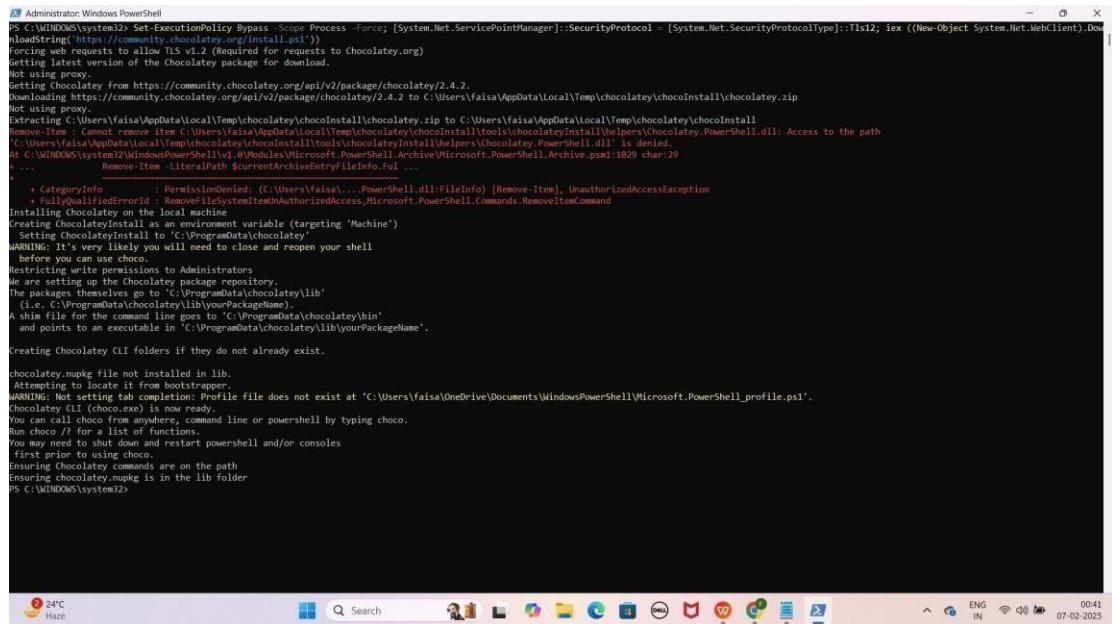
## Chocolatey

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



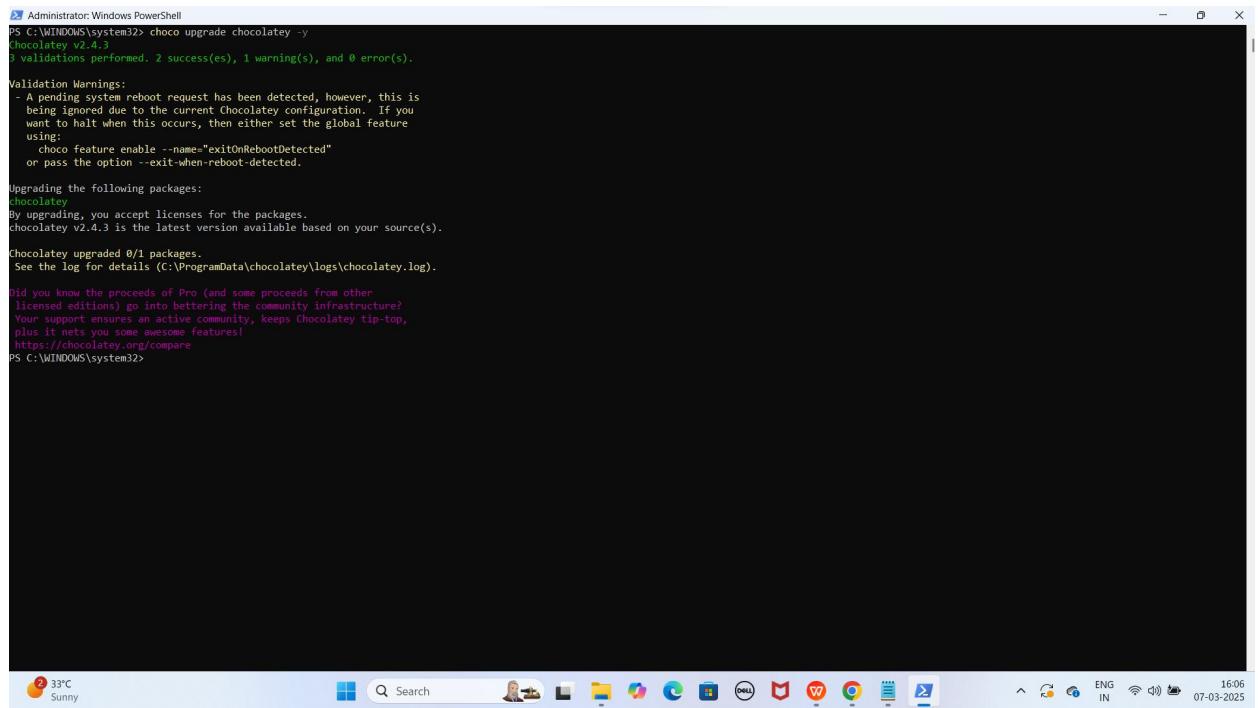
```
[Administrator: Windows PowerShell]
PS C:\Windows\system32> Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.SecurityProtocolType]::Tls12; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))
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.
Downloaded https://community.chocolatey.org/api/v2/package/chocolatey/2.4.2 to C:\Users\faisa\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Extracting C:\Users\faisa\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\faisa\AppData\Local\Temp\chocolatey\chocoInstall
Remove-Item : Cannot remove item C:\Users\faisa\AppData\Local\Temp\chocolatey\chocoInstall\tools\chocolateyInstall\helpers\Chocolatey.PowerShell.dll: Access to the path 'C:\Users\faisa\AppData\Local\Temp\chocolatey\chocoInstall\tools\chocolateyInstall\helpers\Chocolatey.PowerShell.dll' is denied.
At C:\WINDOWS\system32\WindowsPowerShell\v2.0\Modules\Microsoft.PowerShell.Archive\Microsoft.PowerShell.Archive.ps1:1029 char:29
    + Remove-Item -LiteralPath $currentArchiveEntry\libinfo.ful ...
    + ~~~~~
+ CategoryInfo          : PermissionDenied: (C:\Users\faisa\..._PowerShell.dll:FileInfo) [Remove-Item], UnauthorizedAccessException
+ FullyQualifiedErrorId : RemoveFilesystemItemUnauthorizedAccess,Microsoft.PowerShell.Commands.RemoveItemCommand
Installing Chocolatey on the local machine
PS C:\Windows\system32> $env:ChocolateyInstall = "C:\ProgramData\chocolatey"
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 repository is located at 'C:\ProgramData\chocolatey\lib'
(i.e. C:\ProgramData\chocolatey\lib\yourPackageName).
A shim 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.nupkg file not installed in lib.
Attempting to locate it from bootstrapper.
WARNING: No setting tab completion Profile file does not exist at 'C:\Users\faisa\OneDrive\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey CLI (choco.exe) is now ready.
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.nupkg 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-on-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).

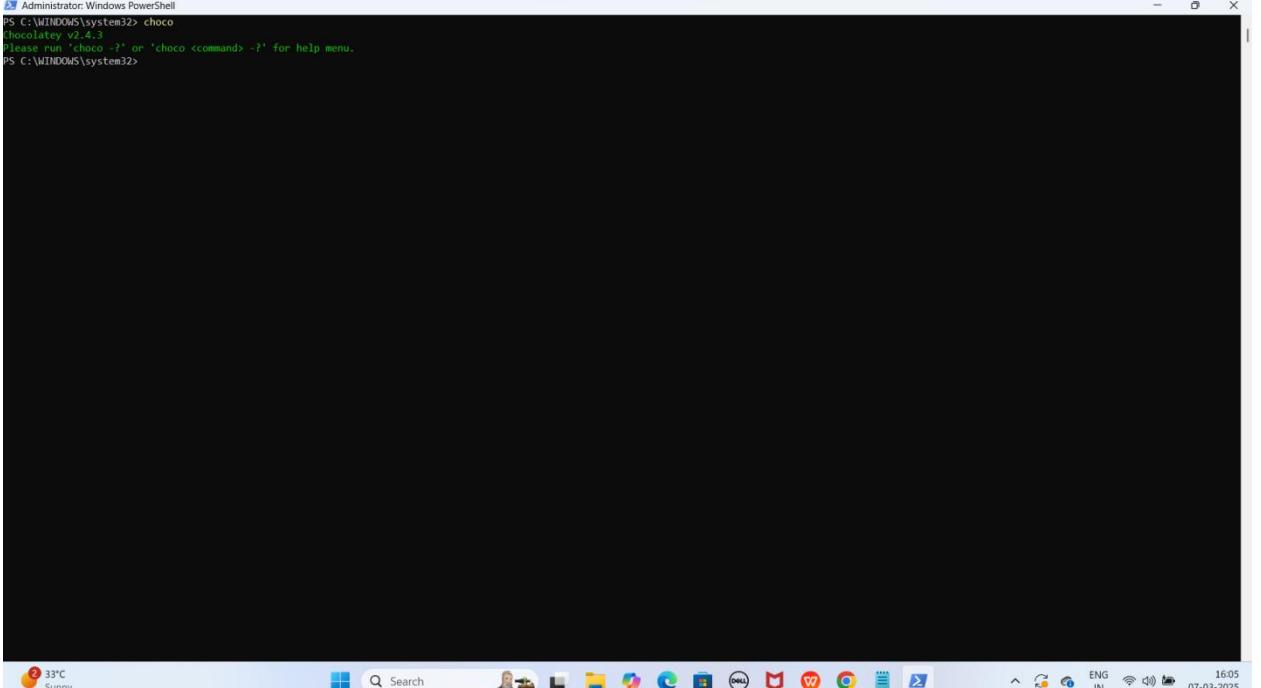
Chocolatey upgraded 0/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

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>
```

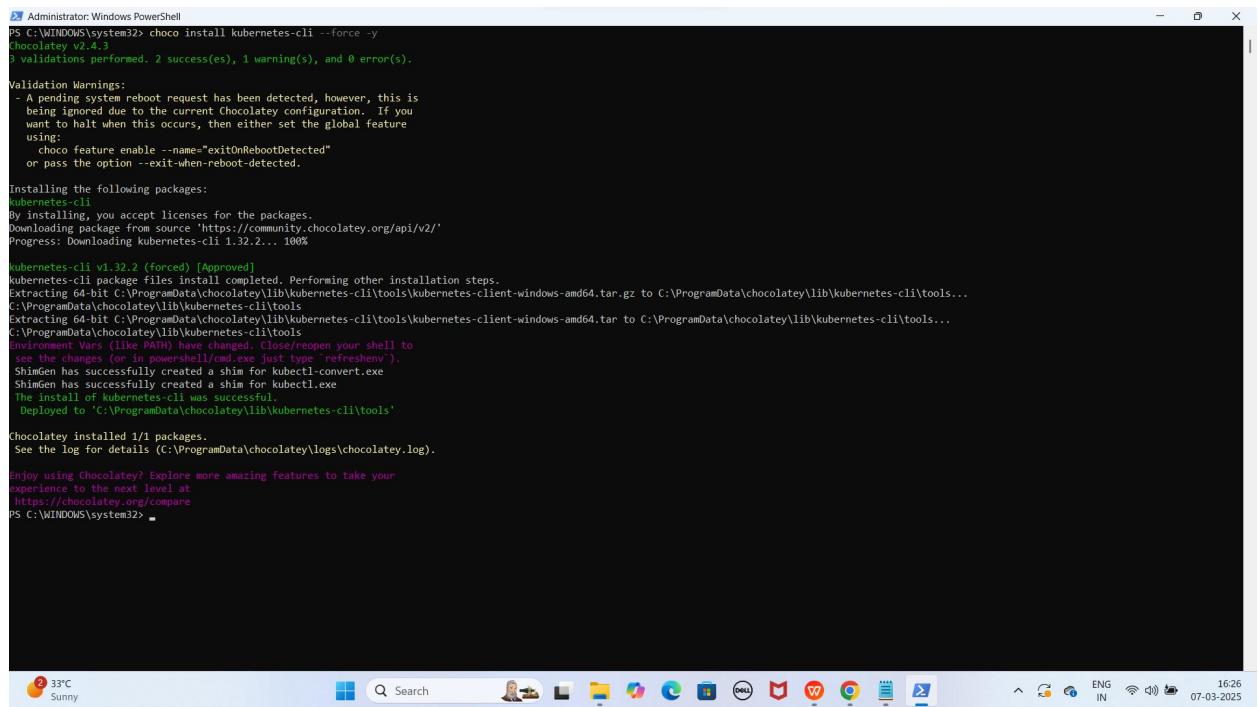
## Step 2: Kubectl Install Karna

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-on-reboot-detected.

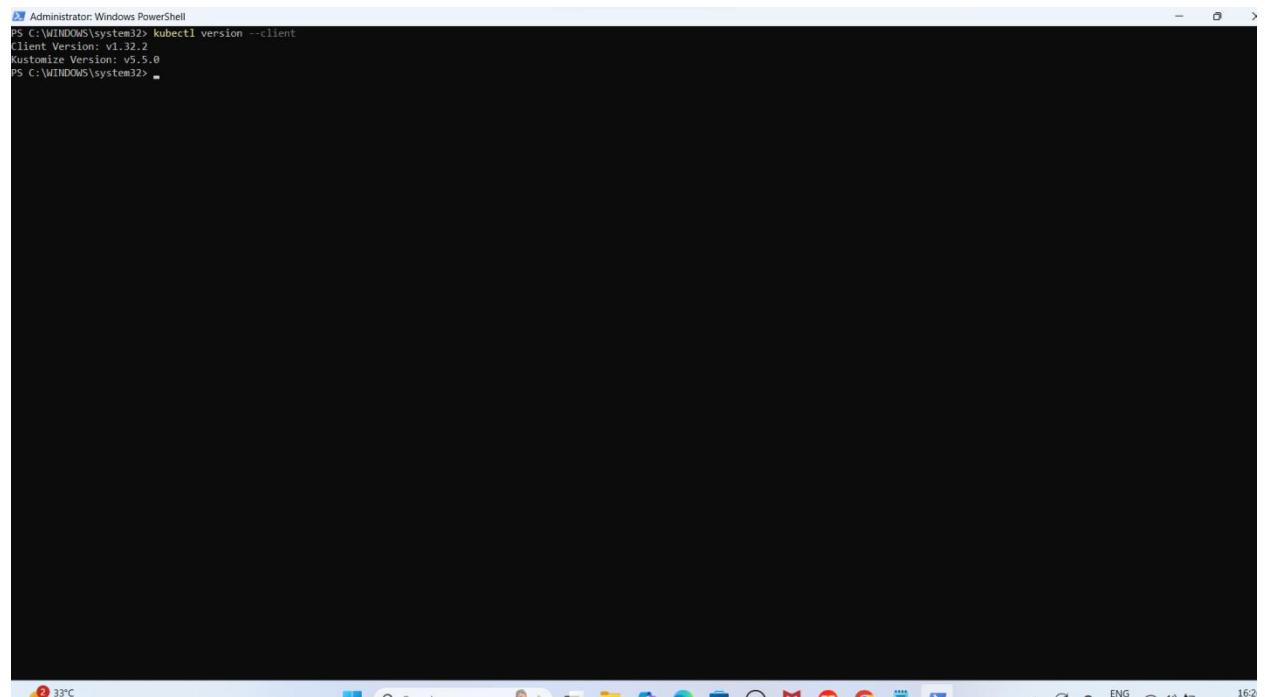
Installing the following packages:
kubernetes-cli
By installing, you accept licenses for the packages.
Download progress from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading kubernetes-cli 1.32.2... 100%
kubernetes-cli v1.32.2 (forced) [Approved]
kubernetes-cli package files install completed. Performing other installation steps.
Extracting 64-bit C:\ProgramData\chocolatey\lib\kubernetes-client-windows-amd64.tar.gz to C:\ProgramData\chocolatey\lib\kubernetes-cli\tools...
C:\ProgramData\chocolatey\lib\kubernetes-client-tools
Extracting 64-bit C:\ProgramData\chocolatey\lib\kubernetes-client-tools\kubernetes-client-windows-amd64.tar to C:\ProgramData\chocolatey\lib\kubernetes-client-tools...
C:\ProgramData\chocolatey\lib\kubernetes-client-tools
Environment Vars (like PATH) have changed. Close/reopen your shell to
see changes (or run powershell -NoProfile -Command "refreshenv").
ShimGen has successfully created a shim for kubelet-convert.exe
ShimGen has successfully created a shim for kubelet.exe
The install of kubernetes-cli was successful
  Deployed to 'C:\ProgramData\chocolatey\lib\kubernetes-client-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



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

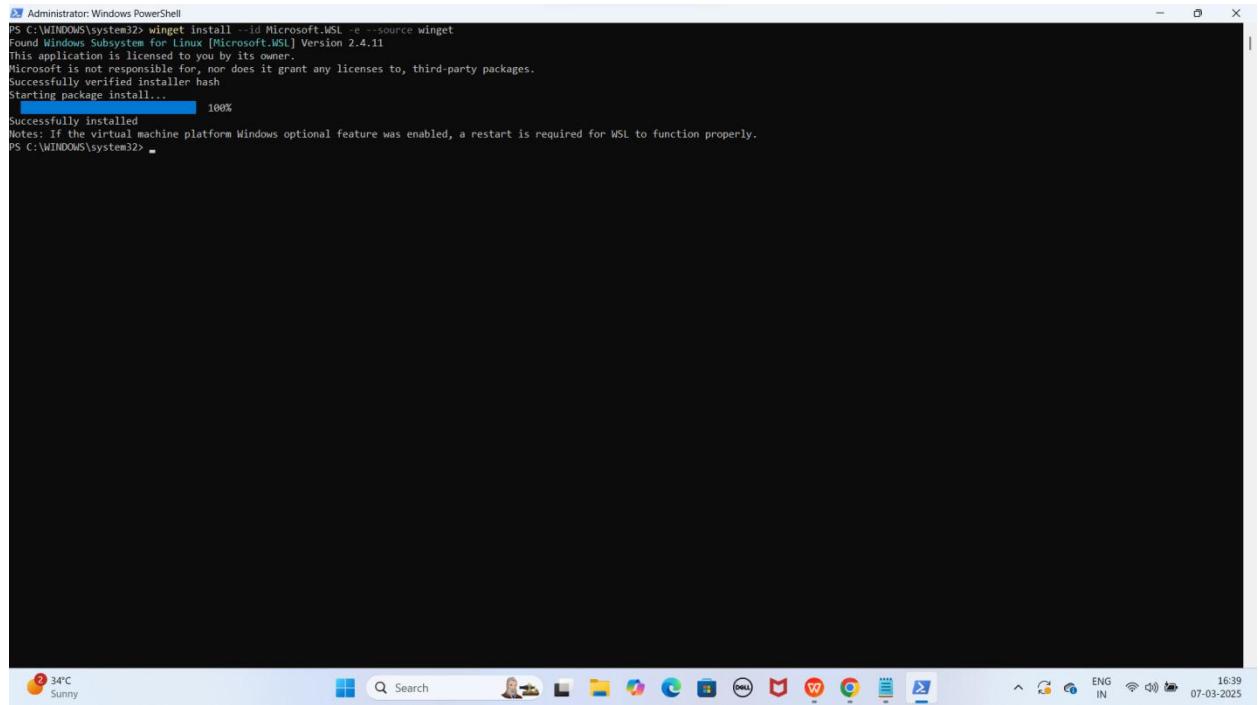
### **Step 3: WSL Install Karna (Future purpose ke liye)**

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

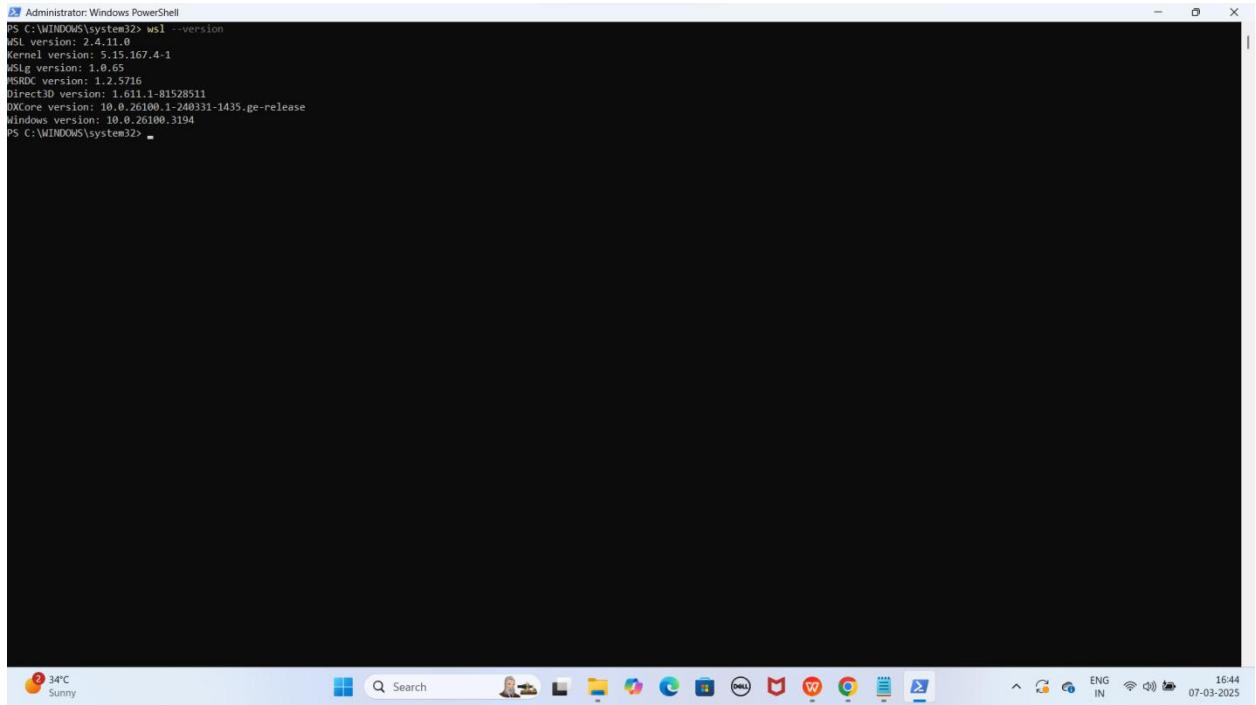


```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> winget install --id Microsoft.WSL -e --source winget
Found Windows Subsystem for Linux [Microsoft.WSL] Version 2.4.11
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party 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

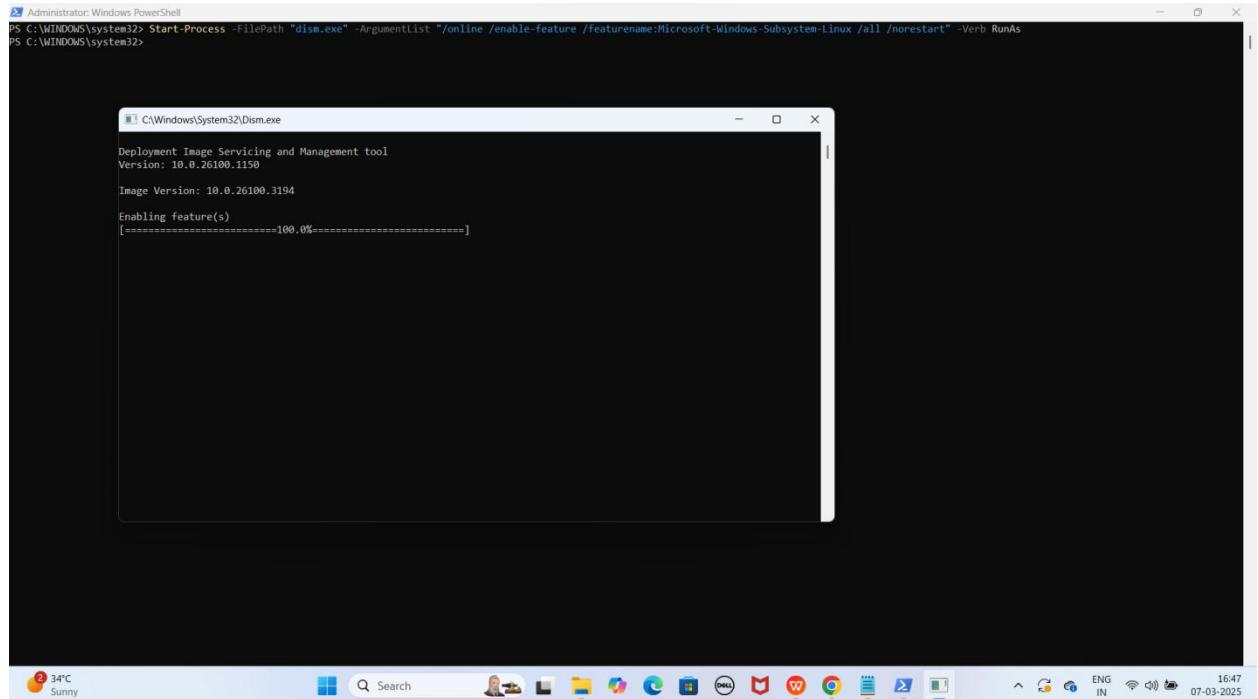


```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> wsl --version
wSL version: 2.4.11.0
Kernel version: 5.15.167.4-1
wSLig version: 1.0.65
MSRDC version: 1.2.5716
Direct3D version: 1.611.1-81528511
DXCore version: 10.0.26100.1-240331-1435.ge-release
Windows version: 10.0.26100.3194
PS C:\WINDOWS\system32>
```

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

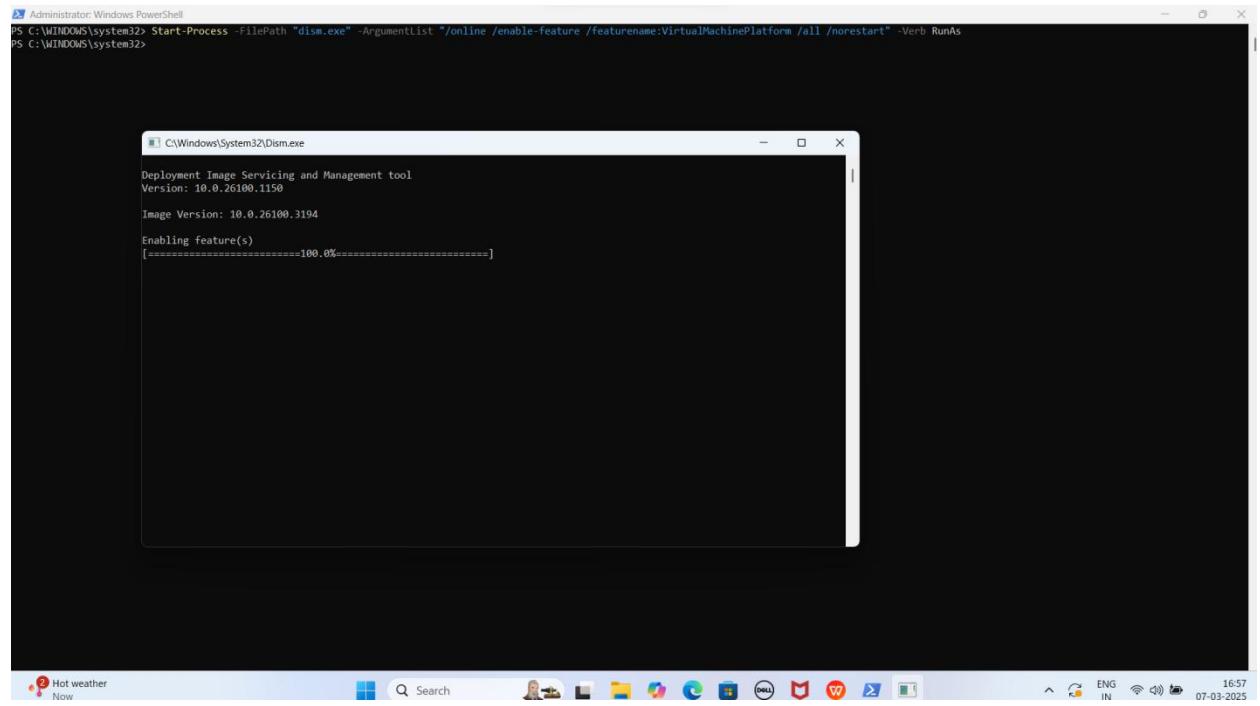
```
Start-Process -FilePath "dism.exe" -ArgumentList "/online /enable-feature  
/featurename:Microsoft-Windows-Subsystem-Linux /all /norestart" -Verb RunAs
```

#### YE KUCH ISTARHA LAGEGA



```
Start-Process -FilePath "dism.exe" -ArgumentList "/online /enable-feature /featurename:VirtualMachinePlatform /all /norestart" -Verb RunAs
```

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```
Start-Process -FilePath "bcdedit.exe" -ArgumentList "/set hypervisorlauchtype auto" -Verb RunAs
```

```
Start-Process -FilePath "bcdedit.exe" -ArgumentList "/enum" -NoNewWindow -PassThru | Out-String | Select-String -Pattern "hypervisorlauchtype"
```

YE KUCH ISTARHA LAGEGA

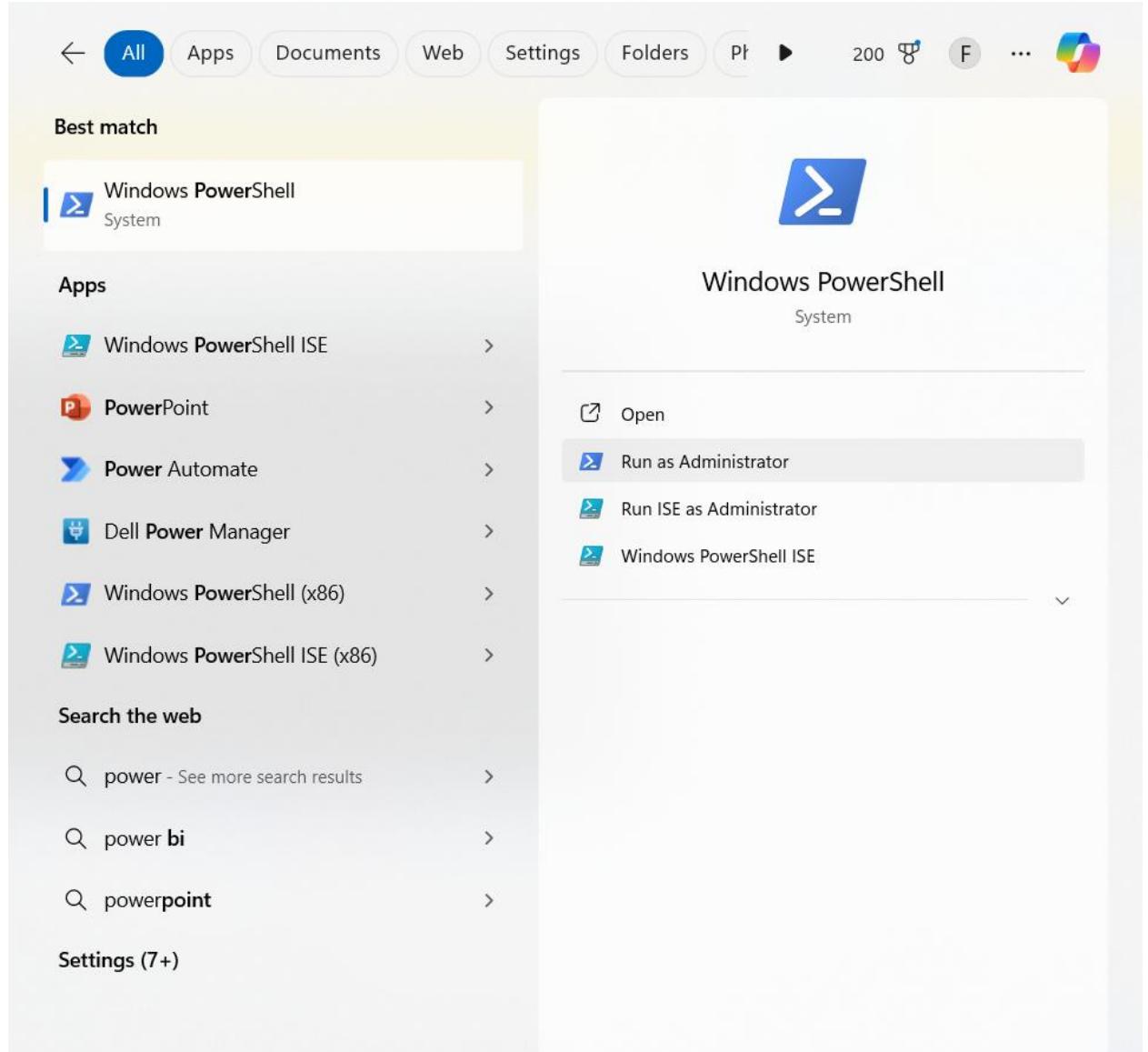
```
PS C:\WINDOWS\system32> Start-Process -FilePath "bcdedit.exe" -ArgumentList "/set hypervisorlauchtype auto" -Verb RunAs
PS C:\WINDOWS\system32> Start-Process -FilePath "bcdedit.exe" -ArgumentList "/enum" -NoNewWindow -PassThru | Out-String | Select-String -Pattern "hypervisorlauchtype"
Windows Boot Manager
-----
identifier {bootmgr}
device partition=0\Device\HarddiskVolume1
path \EFI\Microsoft\Boot\bootmgfw.efi
description Windows Boot Manager
locale en-US
inherit {globalsettings}
default {current}
resumeobject {a7c65db3-ecc4-11ef-b5bc-a206f8a61238}
displayorder {current}
toolsdisplayorder {memdiag}
timeout 30

Windows Boot Loader
-----
identifier {current}
device partition=C:
path \WINDOWS\system32\winload.efi
description Windows 11
locale en-US
inherit {bootloadersettings}
recoverysequence {f2bah45c-e4b5-11ef-ab34-e90f05670605}
displaymessagoverride Recovery
recoverenabled Yes
isolatedcontext Yes
allowedimemorysettings 0x15000075
osdevice partition=C:
systemroot \WINDOWS
resumeobject {a7c65db3-ecc4-11ef-b5bc-a206f8a61238}
nx OptIn
bootmenupolicy Standard
hypervisorlauchtype Auto
PS C:\WINDOWS\system32>
```

**NOTE: Agar aapko hypervisorlauchtype Auto show karrha hai to System Restart kariye System Restart hone ke baad phir Powershell ko Run as Administrator se open kariye or HyperVisor Enable howa check karne ke liye ye command run kariye**

Get-ComputerInfo | Select-Object HyperV\*

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A screenshot of a Windows 10 desktop. At the top, there's a black PowerShell window titled "Administrator: Windows PowerShell" with white text. It displays the command "Get-ComputerInfo | Select-Object HyperV\*" followed by its output, which includes "HyperVisorPresent : True". Below the window is a light blue taskbar. On the left side of the taskbar, there's a weather widget showing "19°C Haze". To the right of the weather are several pinned icons: File Explorer, Search, Task View, Edge browser, File Explorer, Mail, Photos, OneDrive, and a folder icon. Further right are icons for Dell, Microsoft Store, and a few others. On the far right of the taskbar, there are system status icons for battery (充 100%), signal strength, and network, along with the text "ENG IN". At the bottom right, it shows the date and time as "08-03-2025 07:35".

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-ComputerInfo | Select-Object HyperV*
HyperVisorPresent : True
HyperVRequirementDataExecutionPreventionAvailable :
HyperVRequirementSecondLevelAddressTranslation :
HyperVRequirementVirtualizationFirmwareEnabled :
HyperVRequirementVMMonitorModeExtensions :

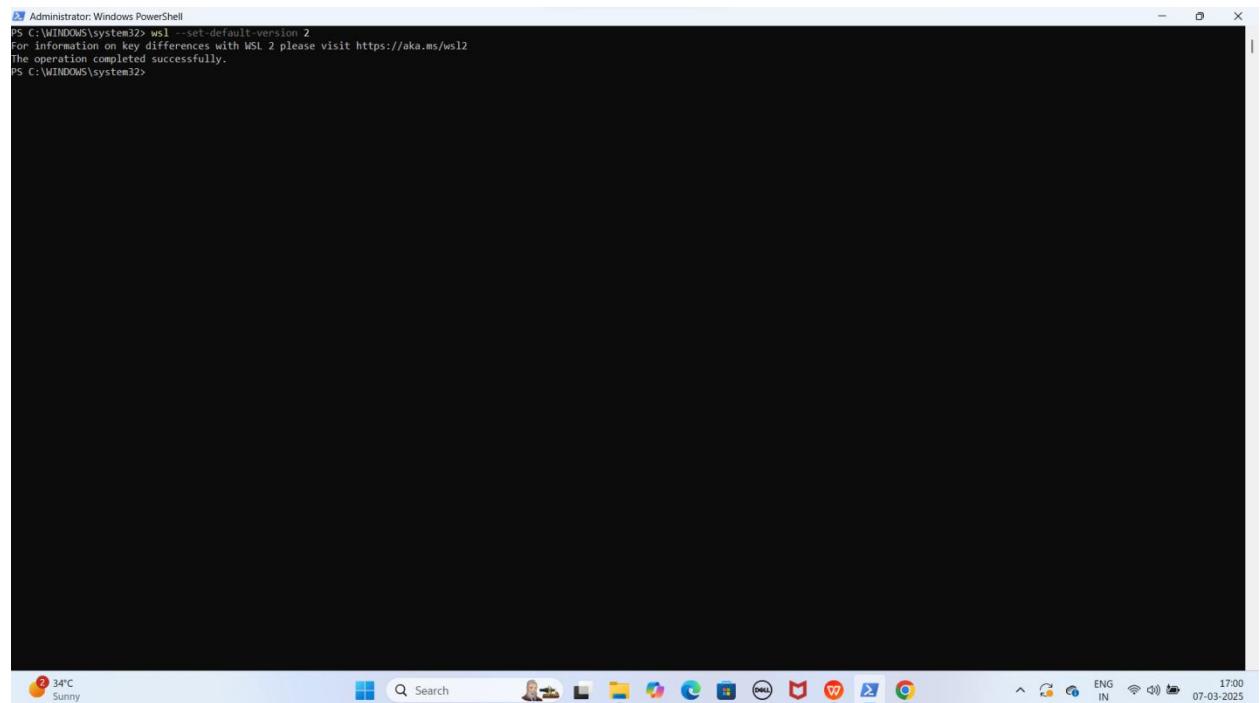
PS C:\WINDOWS\system32>
```

**NOTE: Agar aapko HyperVisorPresent : True show kar raha iska matlab aapka Hypervisor Successfully Enable hogaya hai**

#### 4. WSL version 2 set karne ke liye ye command run kariye

```
wsl --set-default-version 2
```

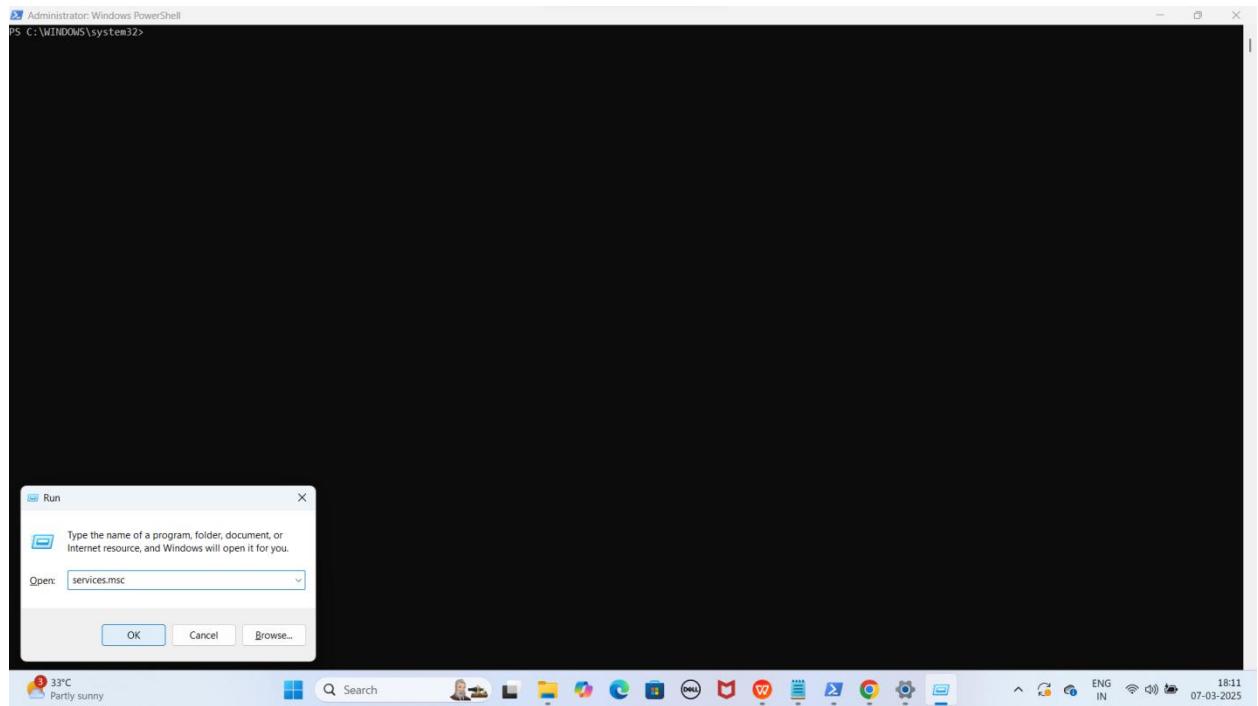
YE KUCH ISTARHA LAGEGA



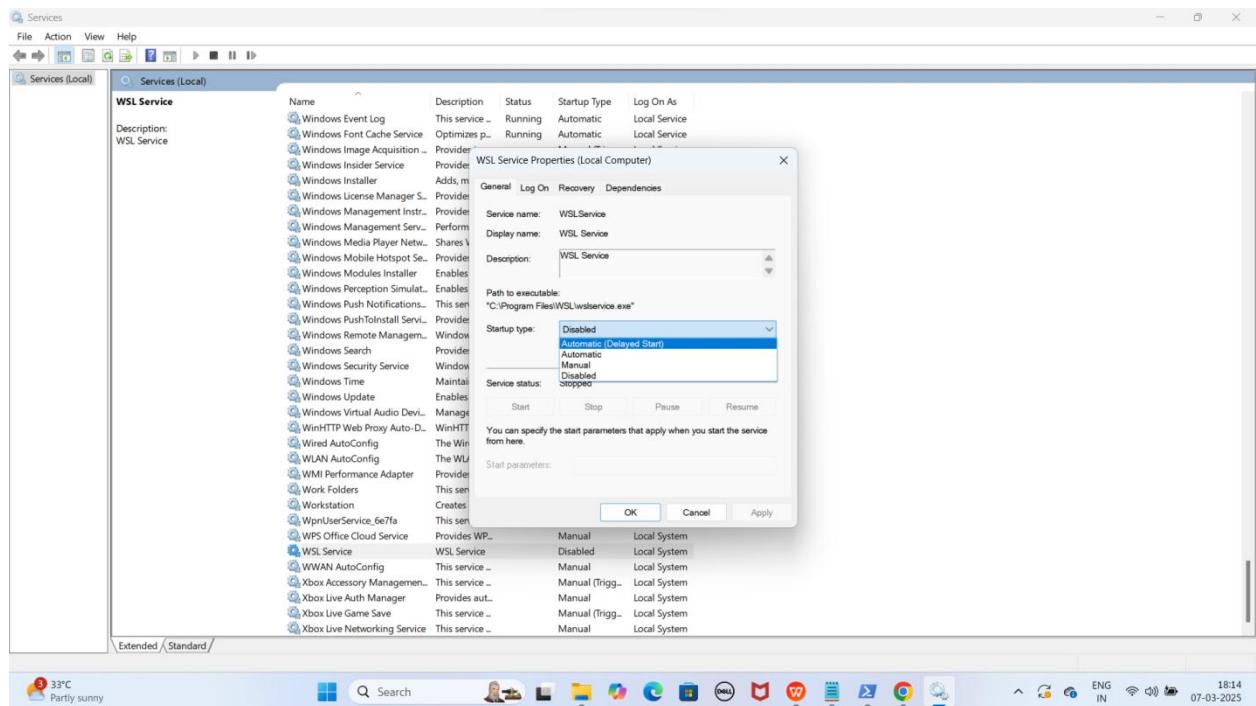
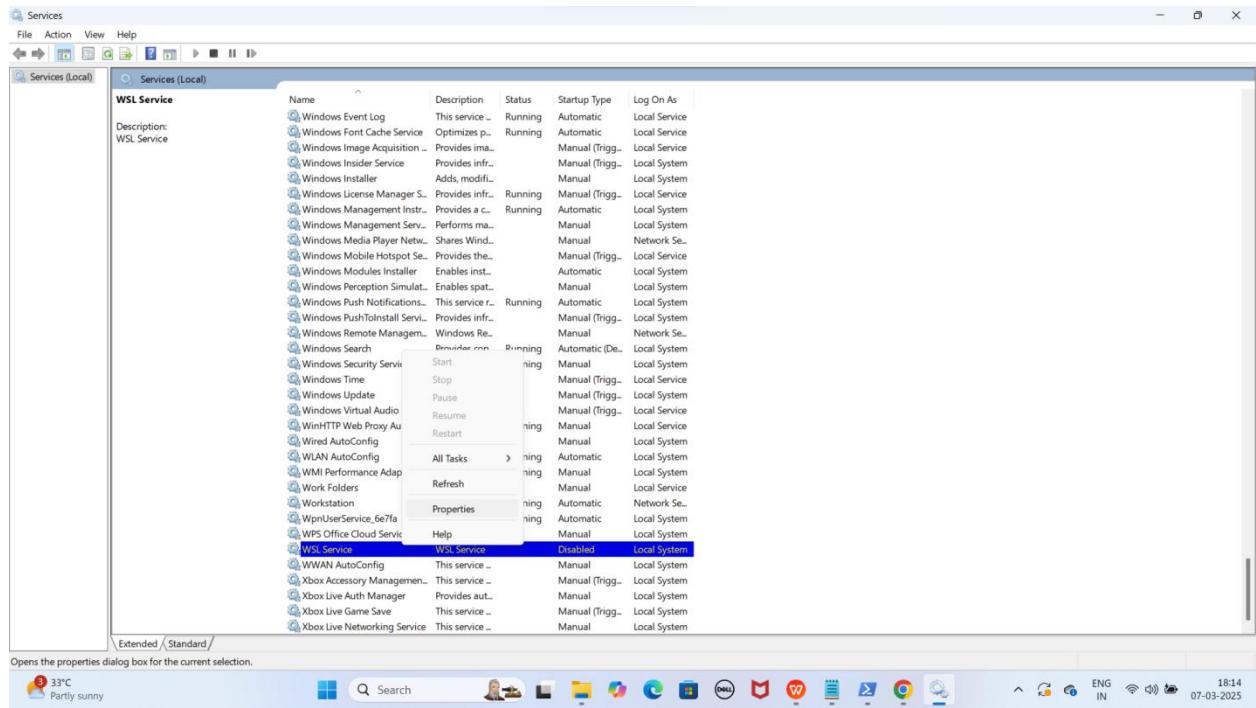
## 5. Manually WSL Service Enable Karo

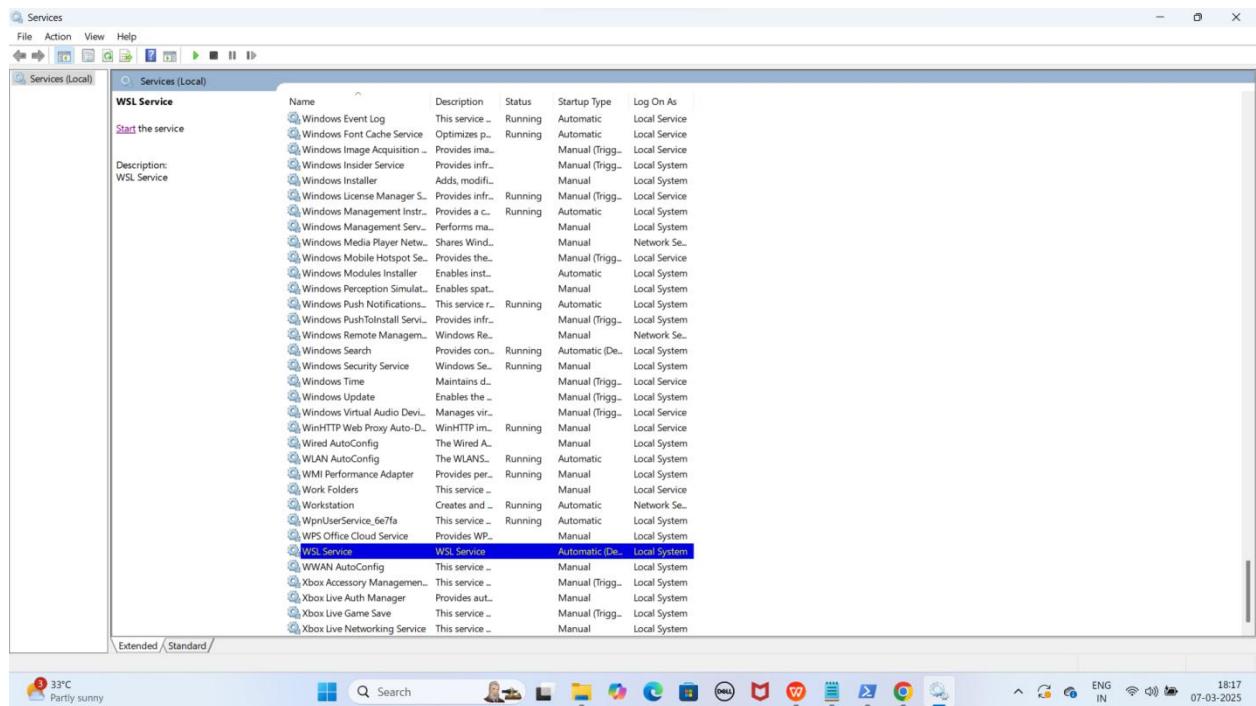
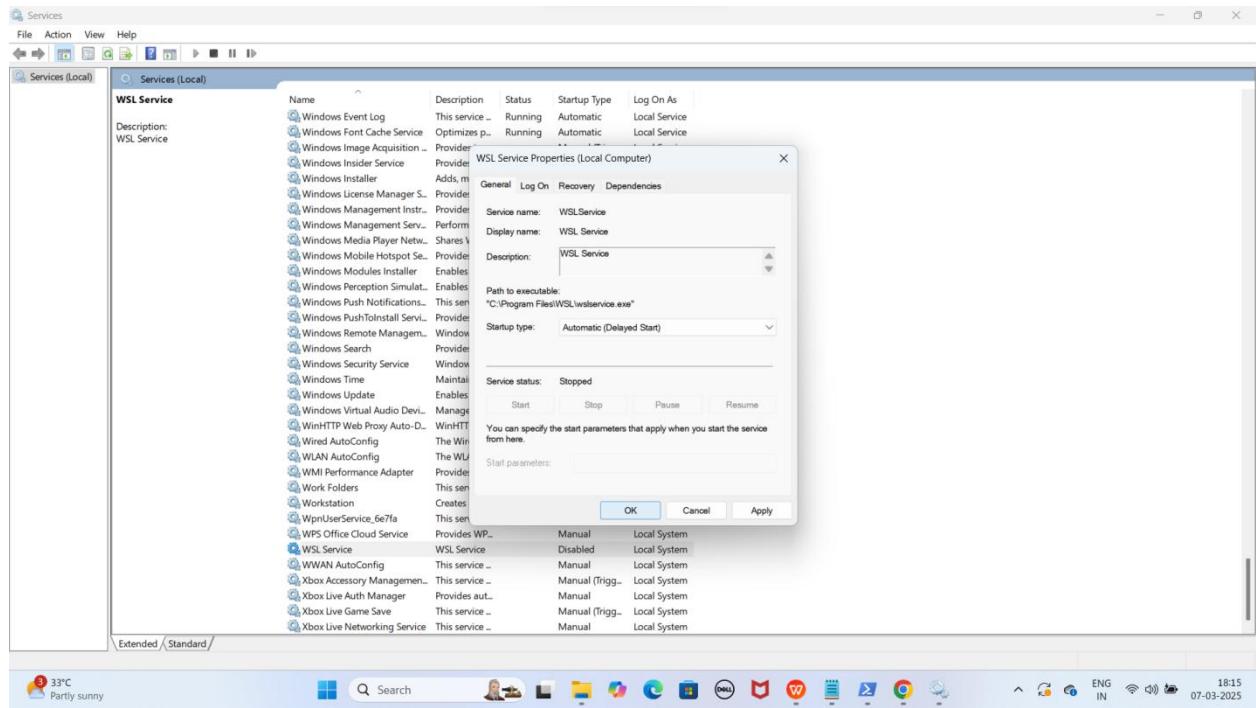
- Win + R dabao, services.msc likho aur Enter karo.
- "WSL service" service dhundo.
- Agar Disabled hai, to Right-click → Properties → Startup type: Automatic(Delayed Start) → OK → Start karo.

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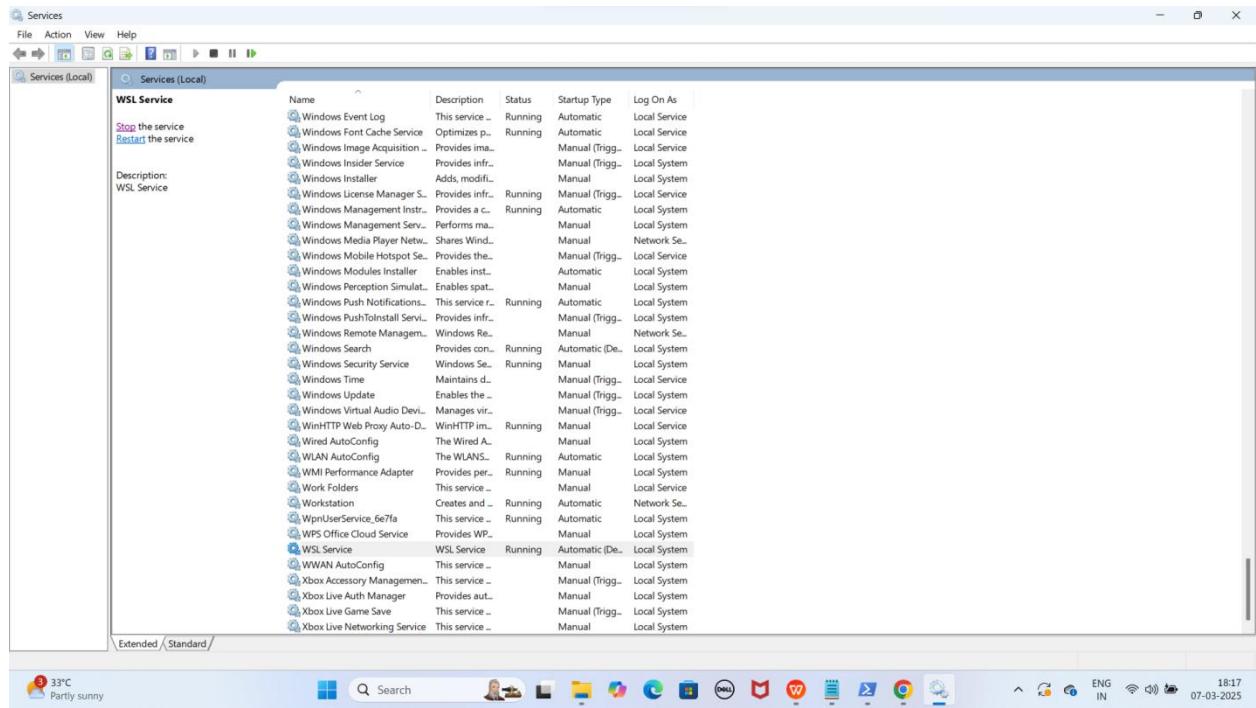


Services					
Services (Local)					
WSL Service					
Name	Description	Status	Startup Type	Log On As	
Windows Event Log	This service...	Running	Automatic	Local Service	
Windows Font Cache Service	Optimizes p...	Running	Automatic	Local Service	
Windows Image Acquisition...	Provides ima...	Running	Manual (Trigg...	Local Service	
Windows Insider Service	Provides infr...	Running	Manual (Trigg...	Local System	
Windows Installer	Adds, modifi...	Running	Manual	Local System	
Windows License Manager S...	Provides infr...	Running	Manual (Trigg...	Local Service	
Windows Management Instr...	Provides a c...	Running	Automatic	Local System	
Windows Management Serv...	Performs ma...	Running	Manual	Local System	
Windows Media Player Netw...	Shares Wind...	Running	Manual	Network Se...	
Windows Mobile Hotspot Se...	Provides the...	Running	Manual (Trigg...	Local Service	
Windows Modules Installer	Enables inst...	Running	Automatic	Local System	
Windows Perception Simulat...	Enables spat...	Running	Manual	Local System	
Windows Push Notifications...	This service...	Running	Automatic	Local System	
Windows PushToInstall Servi...	Provides infr...	Running	Manual (Trigg...	Local System	
Windows Remote Management...	Windows Re...	Running	Manual	Network Se...	
Windows Search	Provides con...	Running	Automatic (De...	Local System	
Windows Security Service	Windows Se...	Running	Manual	Local System	
Windows Time	Maintains d...	Running	Manual (Trigg...	Local Service	
Windows Update	Enables the...	Running	Manual (Trigg...	Local System	
Windows Virtual Audio Devi...	Manages vir...	Running	Manual (Trigg...	Local Service	
WinHTTP Web Proxy Auto-D...	WinHTTP im...	Running	Manual	Local Service	
Wired AutoConfig	The Wired A...	Running	Manual	Local System	
WLAN AutoConfig	The WLANS...	Running	Automatic	Local System	
WMI Performance Adapter	Provides per...	Running	Manual	Local System	
Work Folders	This service...	Running	Manual	Local Service	
Workstation	Creates and...	Running	Automatic	Network Se...	
WpnUserService_6e7fa	This service...	Running	Automatic	Local System	
WPS Office Cloud Service	Provides WP...	Running	Manual	Local System	
WSL Service	WSL Service	Disabled	Local System		
WWAN AutoConfig	This service...	Running	Manual	Local System	
Xbox Accessory Management...	This service...	Running	Manual (Trigg...	Local System	
Xbox Live Auth Manager	Provides aut...	Running	Manual	Local System	
Xbox Live Game Save	This service...	Running	Manual (Trigg...	Local System	
Xbox Live Networking Service	This service...	Running	Manual	Local System	





33°C Party sunny 18:15 ENG IN 07-03-2025



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

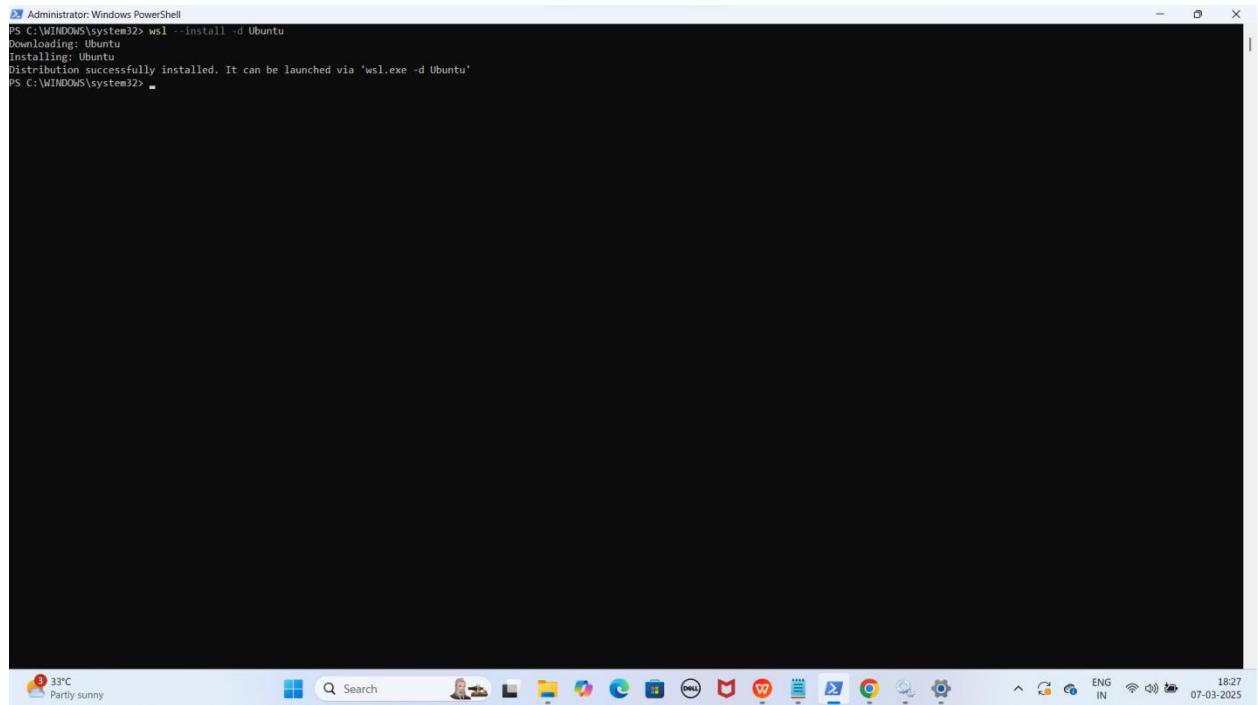
## **Step 4: Ubuntu Install Kariye Ye WSL Ki Requirement Hai**

Ubuntu WSL ke andar ek Linux distribution hai.

### **1. Install karne ke liye ye command run kariye**

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

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```
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>
```

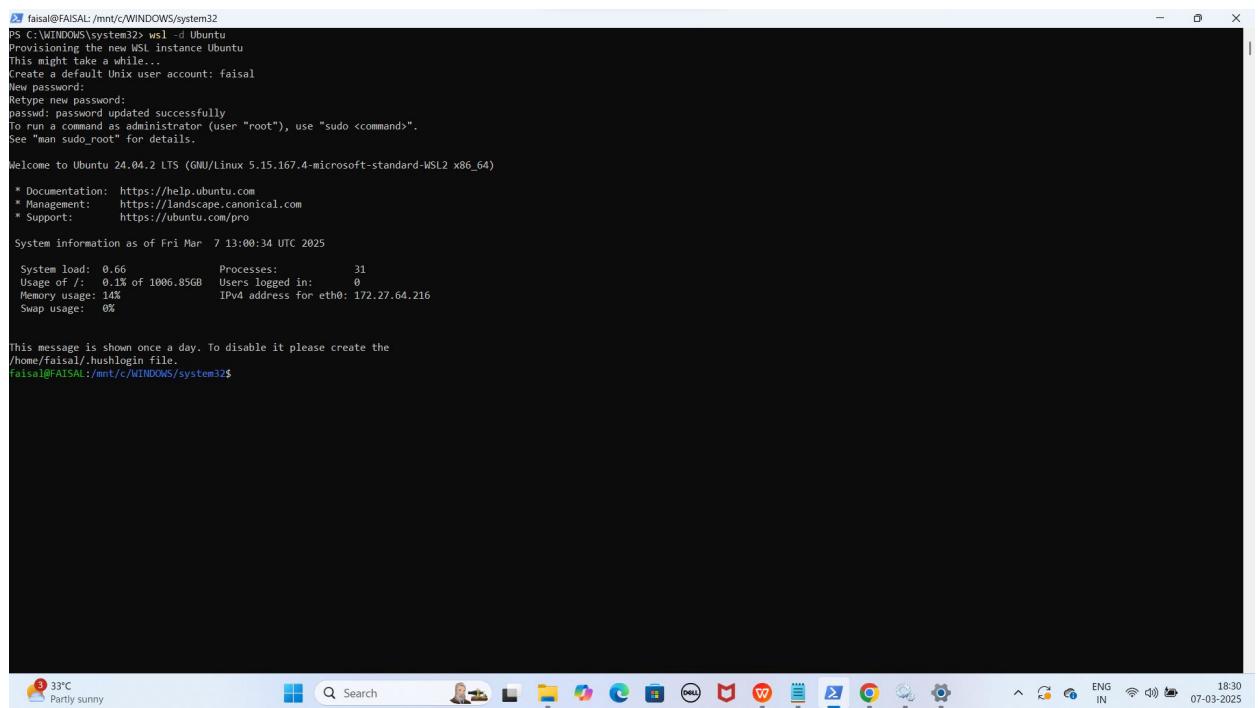
## 2. Ubuntu manually launch karne ke liye ye command run kariye

```
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$ 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

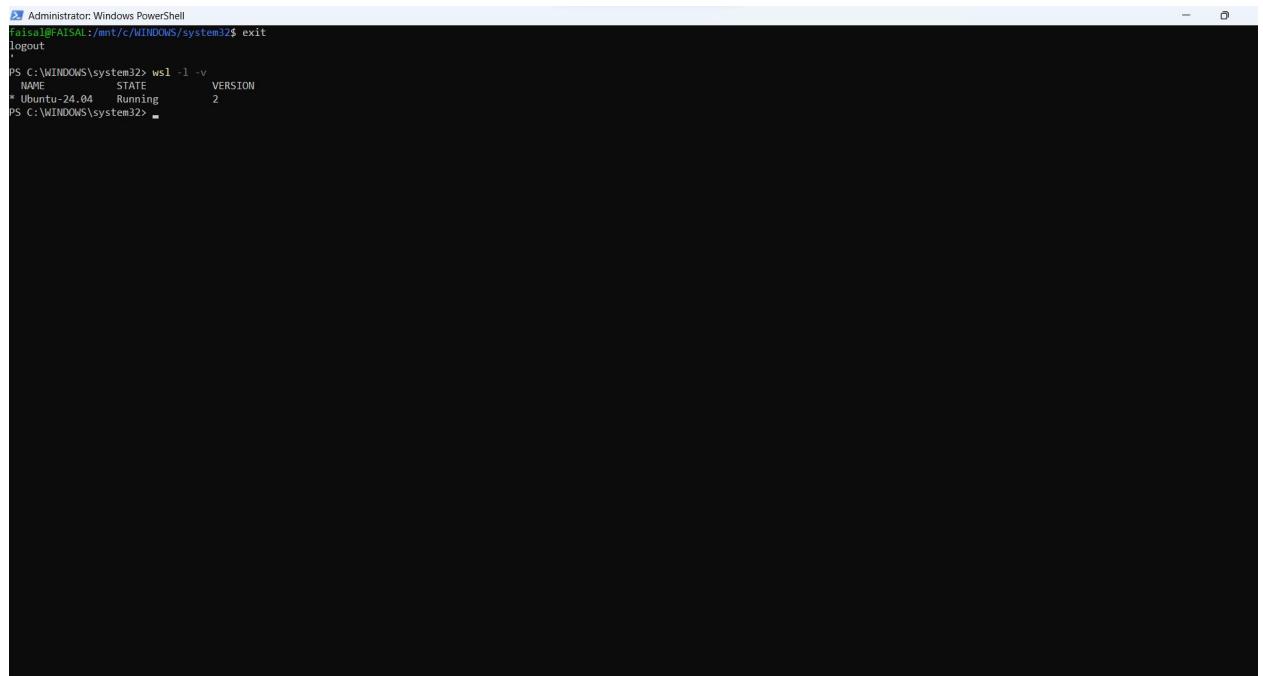
System load: 0.66      Processes:            31
Usage of /: 0.1% of 1006.85GB  Users logged in:    0
Memory usage: 14%          IPv4 address for eth0: 172.27.64.216
Swap usage:  0%           This message is shown once a day. To disable it please create the
                           /home/faisal/.hushlogin file.
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

**NOTE:** Aapko password set karte waqt nahi dikhega. Or jaise hi WSL install hogा, aap by default WSL me enter ho jaoge. Lekin aapko exit hokar WSL Version 2 par Enable hai ya nahi check karne hogा

### **3. Check karne ke liye ye command run kariye**

```
wsl -l -v
```

**YE KUCH ISTARHA LAGEGA**



```
faisal@Faisal:~$ wsl -l -v
logout
PS C:\WINDOWS\system32> wsl -l -v
NAME          STATE      VERSION
* Ubuntu-24.04  Running     2
PS C:\WINDOWS\system32>
```

**NOTE: Agar aapko STATE Running and VERSION 2 show horaha matlab aapka WSL version 2 par Enable hai and run ho raha hai**

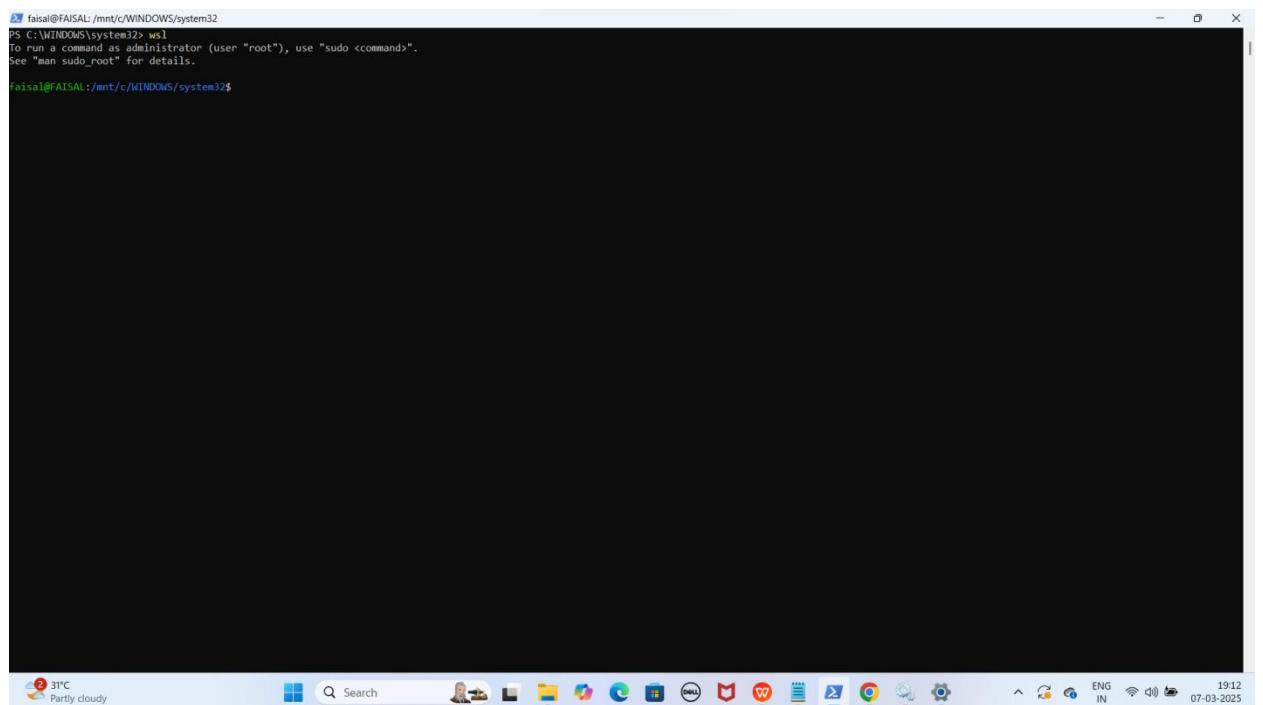
## Step 5: Docker install Karna WSL ke andar (Future purpose ke liye)

Docker ek **open-source platform** hai jo **applications** ko **containers** mein **package** karne, distribute karne, aur run karne ki facility provide karta hai.

### 1. Docker install karne ke liye wsl type karein

```
wsl
```

YE KUCH ISTARHA LAGEGA



```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ PS C:\WINDOWS\system32> wsl
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

## 2. Install karne ke liye ye commands run kariye

sudo apt-get update

### YE KUCH ISTARHA LAGEGA

```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ sudo apt-get update
[sudo] password for faisal:
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [668 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [128 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8948 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [822 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [79 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-security/restricted Translation-en [143 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [26.2 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4892 kB]
Get:17 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 kB]
Get:18 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:21 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:22 http://archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:23 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:24 http://archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:26 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 kB]
Get:27 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [914 kB]
Get:28 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en [106 kB]
Get:29 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:30 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1036 kB]
Get:31 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [260 kB]
Get:32 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [364 kB]
Get:33 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [19.9 kB]
Get:34 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [753 kB]
Get:35 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [150 kB]
Get:36 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 kB]
Get:37 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [30.1 kB]
Get:38 http://archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5884 kB]
Get:39 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 kB]
Get:40 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 kB]
Get:41 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 kB]
Get:42 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 kB]
Get:43 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [14.2 kB]
Get:44 http://archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [12.1 kB]
Get:45 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [20.0 kB]
Get:46 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1104 kB]
Get:47 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 kB]
```

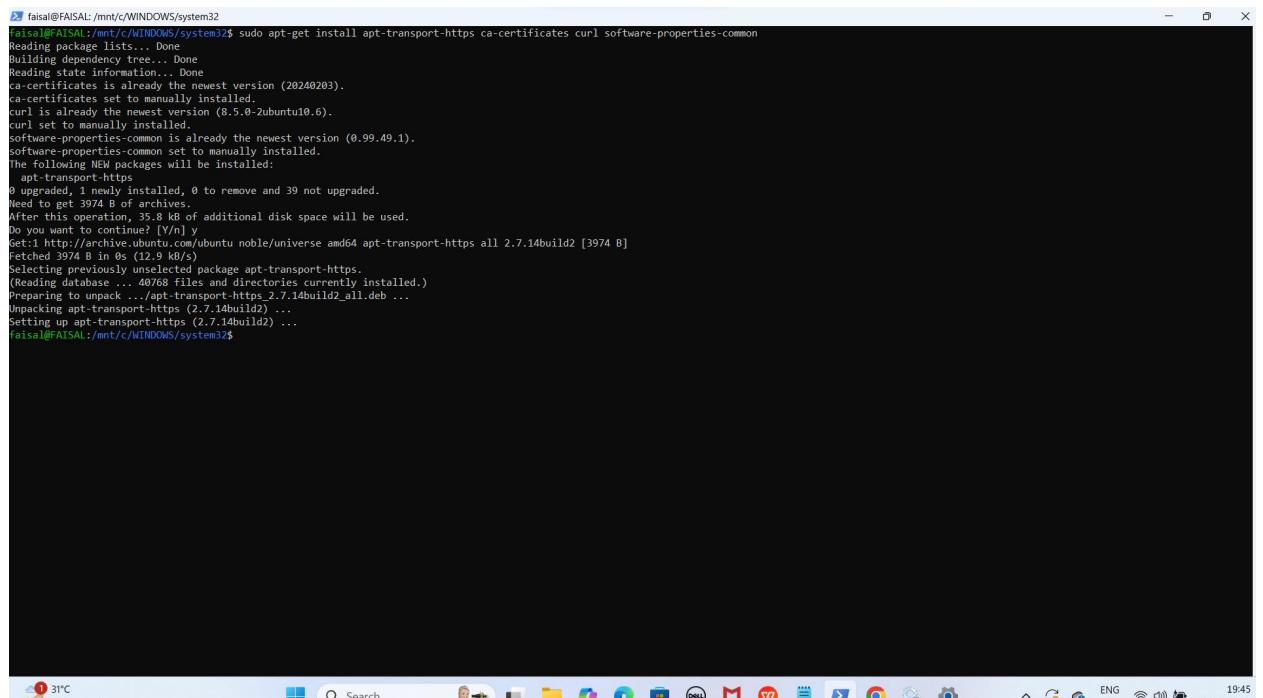
19:43  
Partly cloudy Search ENG IN 07-03-2025

```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ 
Get:5 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [128 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8948 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [822 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Packages [79 kB]
Get:12 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [143 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [26.2 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4892 kB]
Get:17 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 kB]
Get:18 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:21 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:22 http://archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:23 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:24 http://archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:26 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 kB]
Get:27 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [916 kB]
Get:28 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en [206 kB]
Get:29 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:30 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1036 kB]
Get:31 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [260 kB]
Get:32 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [364 kB]
Get:33 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [19.9 kB]
Get:34 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [753 kB]
Get:35 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 kB]
Get:36 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [30.1 kB]
Get:37 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [5884 kB]
Get:38 http://archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [940 kB]
Get:39 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [552 kB]
Get:40 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 kB]
Get:41 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 kB]
Get:42 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 kB]
Get:43 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [14.2 kB]
Get:44 http://archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [12.1 kB]
Get:45 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [20.0 kB]
Get:46 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1104 kB]
Get:47 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 kB]
Get:48 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [212 kB]
Get:49 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 kB]
Get:50 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 kB]
Fetched 32.7 MB in 1s (2410 kB/s)
Reading package lists... Done
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

19:44  
Partly cloudy Search ENG IN 07-03-2025

```
sudo apt-get install apt-transport-https ca-certificates curl software-properties-common
```

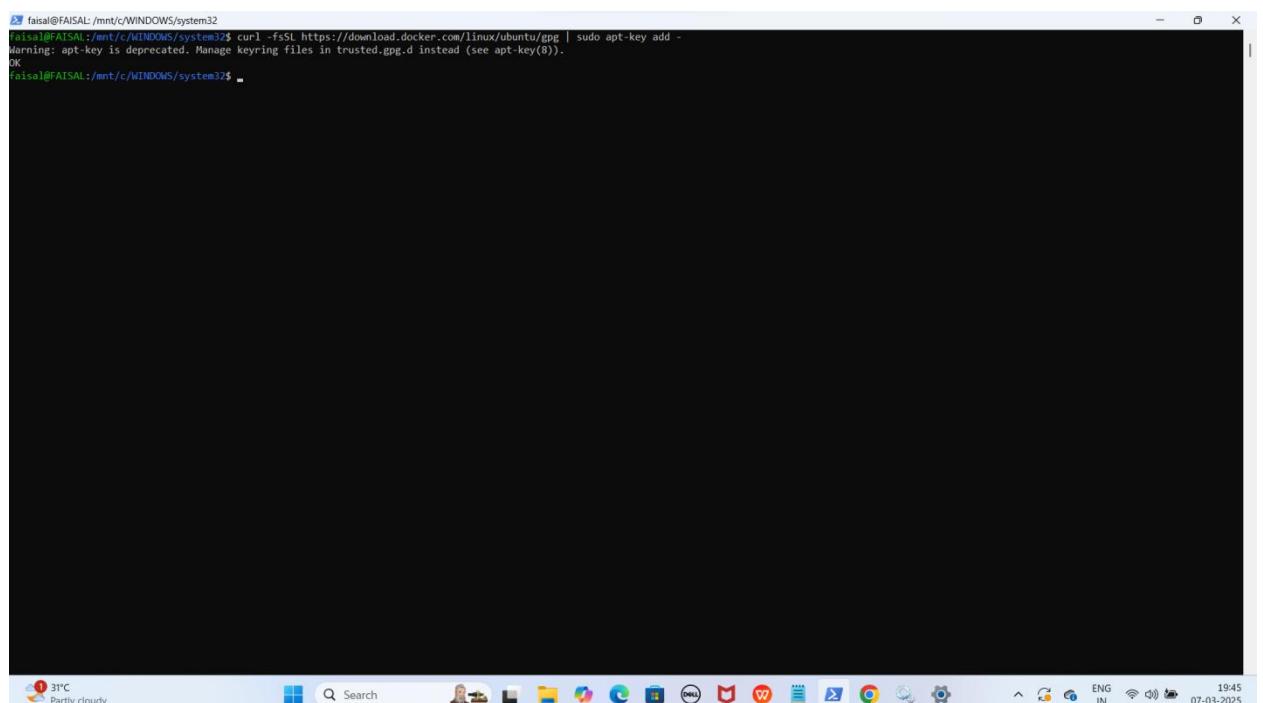
YE KUCH ISTARHA LAGEGA



```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ sudo apt-get install apt-transport-https ca-certificates curl software-properties-common
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203).
ca-certificates set to manually installed.
curl is already the newest version (8.5.0-2ubuntu10.6).
curl set to manually installed
software-properties-common is already the newest version (0.99.49.1).
software-properties-common set to manually installed.
The following NEW packages will be installed:
apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 39 not upgraded.
Need to get 3974 B of archives.
After this operation, 35.8 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 apt-transport-https all 2.7.14build2 [3974 B]
Fetched 3974 B in 0s (12.9 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 494 packages and 0 direct dependencies currently installed.)
Preparing to unpack .../apt-transport-https_2.7.14build2_all.deb ...
Unpacking apt-transport-https (2.7.14build2) ...
Setting up apt-transport-https (2.7.14build2) ...
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

YE KUCH ISTARHA LAGEGA



```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

```
sudo add-apt-repository "deb [arch=amd64]  
https://download.docker.com/linux/ubuntu ${lsb_release -cs} stable"
```

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```
faisal@AI5AL:/mnt/c/WINDOWS/system32$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
Repository: * deb [arch=amd64] https://download.docker.com/linux/ubuntu noble stable
Description:
Archive for codename: noble components: stable
More info: https://download.docker.com/linux/ubuntu
Adding repository...
Press [ENTER] to continue or [ctrl-c] to cancel.
Adding deb entry /etc/apt/sources.list.d/archive_uri=https_download_docker_com_linux_ubuntu-noble.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri=https_download_docker_com_linux_ubuntu-noble.list
Get:1 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:3 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [20.3 kB]
Hit:4 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Fetched 69 B in 1s (51.6 kB/s)
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
faisal@AI5AL:/mnt/c/WINDOWS/system32$
```

```
sudo apt-get update
```

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```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ sudo apt-get update
[...]
Reading package lists... done
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

```
sudo apt-get install docker-ce
```

# YE KUCH ISTARHA LAGEGA

```
faisal@FAISAL:~/mnt/c/Windows/system32
[1]:1$ cd /mnt/c/Windows/system32
[2]:1$ sudo apt-get install docker-ce
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  containerd.io docker-buildx-plugin docker-ce-cli docker-ce-rootless-extras docker-compose-plugin iptables libip4tc2 libip6tc2 libltdl7 libnetfilter-conntrack3 libnftnlink0 libnftables1 libnftnl11 libslirp0
  nftables pigz slirp4netns
Suggested packages:
  cgroups-mount | cgroup-lite firewalld
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-rootless-extras docker-compose-plugin iptables libip4tc2 libip6tc2 libltdl7 libnetfilter-conntrack3 libnftnlink0 libnftables1 libnftnl11
  libslirp0 nftables pigz slirp4netns
0 upgraded, 18 newly installed, 0 to remove and 39 not upgraded.
0 upgraded, 18 newly installed, 0 to remove and 39 not upgraded.
Need to get 121 MB of archives.
After this operation, 442 MB of additional disk space will be used.

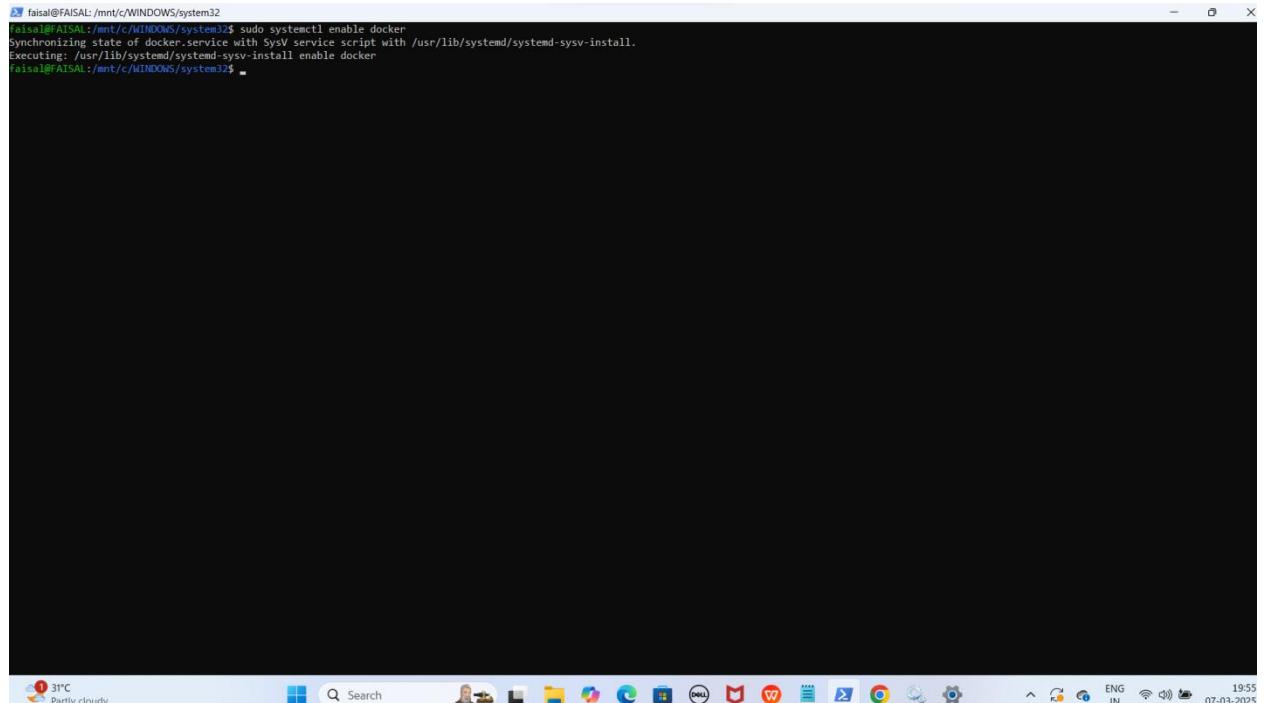
Do you want to continue? [Y/n] y
Get: 1 https://download.docker.com/linux/ubuntu/bionic/stable amd64 containerd.io amd64 1.7.25-1 [29.6 kB]
Get: 2 https://archive.ubuntu.com/ubuntu/noblegui/universe amd64 pigz amd64 2.8.1 [65.6 kB]
Get: 3 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 libip4tc2 amd64 1.8.10-3ubuntu2 [23.3 kB]
Get: 4 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 libip6tc2 amd64 1.8.10-3ubuntu2 [23.7 kB]
Get: 5 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 libnftnlink0 amd64 1.0.2-2build1 [14.8 kB]
Get: 6 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 libnetfilter-conntrack3 amd64 1.0.9-6build1 [45.2 kB]
Get: 7 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 libnftnl11 amd64 1.2.6-2build1 [66.0 kB]
Get: 8 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 iptables amd64 1.8.10-3ubuntu2 [381 kB]
Get: 9 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 libnftnl1 amd64 1.0.9-4build1 [358 kB]
Get: 10 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 nftables amd64 1.0.9-1build1 [69.8 kB]
Get: 11 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 libltdl7 amd64 2.4.7-7build1 [40.3 kB]
Get: 12 https://archive.ubuntu.com/ubuntu/noblegui/main amd64 slirp4netns amd64 4.1.0-1build1 [10.8 kB]
Get: 13 https://download.docker.com/linux/ubuntu/stable amd64 slirp4netns amd64 2.1.1-1build2 [34.9 kB]
Get: 14 https://download.docker.com/linux/ubuntu/stable amd64 docker-buildx-plugin amd64 0.21.1-1ubuntu.24.04-noble [35.3 kB]
Get: 15 https://download.docker.com/linux/ubuntu/stable amd64 docker-ce-cli amd64 5.28.0.1-1ubuntu.24.04-noble [15.7 kB]
Get: 16 https://download.docker.com/linux/ubuntu/stable amd64 docker-ce amd64 5.28.0.1-1ubuntu.24.04-noble [19.1 kB]
Get: 17 https://download.docker.com/linux/ubuntu/stable amd64 docker-ce-rootless-extras amd64 5.28.0.1-1ubuntu.24.04-noble [6986 kB]
Get: 18 https://download.docker.com/linux/ubuntu/noblegui/stable amd64 docker-compose-plugin amd64 2.33.1-1ubuntu.24.04-noble [13.9 kB]
Fetched 121 MB in 31s (3848 kB/s)

Selecting previously unselected package pigz.
(Reading database ... 40772 files and directories currently installed.)
Preparing to unpack .../00-pigz.2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
Selecting previously unselected package libip4tc2:amd64.
Preparing to unpack .../01-libip4tc2.1.8.10-3ubuntu2_amd64.deb ...
Unpacking libip4tc2:amd64 (1.8.10-3ubuntu2) ...
Selecting previously unselected package libip6tc2:amd64.
Preparing to unpack .../02-libip6tc2.1.8.10-3ubuntu2_amd64.deb ...
Unpacking libip6tc2:amd64 (1.8.10-3ubuntu2) ...
Selecting previously unselected package libnftnlink0:amd64.
Preparing to unpack .../03-libnftnlink0.1.0.2-2build1_amd64.deb ...
Unpacking libnftnlink0:amd64 (1.0.2-2build1) ...
Selecting previously unselected package libnetfilter-conntrack3:amd64.
```

```
faisal@FAISAL:~/mnt/c/Windows/system$2
Selecting previously unselected package docker-ce.
Preparing to unpack .../12-docker-ce_5%3a28.0.1-1ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-ce (5:28.0.1-1ubuntu.24.04-noble) ...
Selecting previously unselected package docker-ce-rootless-extras.
Preparing to unpack .../13-docker-ce-rootless-extras_5%3a28.0.1-1ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-ce-rootless-extras (5:28.0.1-1ubuntu.24.04-noble) ...
Selecting previously unselected package docker-compose-plugin.
Preparing to unpack .../14-docker-compose-plugin_2.33.1-1ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-compose-plugin (2.33.1-1ubuntu.24.04-noble) ...
Selecting previously unselected package libltdl7_amd64.
Preparing to unpack .../15-libltdl7_2.4.7-7build1_amd64.deb ...
Unpacking libltdl7_amd64 (2.4.7-7build1) ...
Selecting previously unselected package libslirp0_amd64.
Preparing to unpack .../16-libslirp0_4.7.0-1ubuntu2_amd64.deb ...
Unpacking libslirp0_amd64 (4.7.0-1ubuntu2) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../17-slirp4netns_1.2.1-1build2_amd64.deb ...
Unpacking slirp4netns (1.2.1-1build2) ...
Setting up libltdl7_amd64 (2.4.7-7build1) ...
Setting up libslirp0_amd64 (4.7.0-1ubuntu2) ...
Setting up libnftnl1_amd64 (1.2.6-2build1) ...
Setting up docker-buildx-plugin (0.22.1-1ubuntu.24.04-noble) ...
Setting up containerd.io (1.7.25-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.33.1-1ubuntu.24.04-noble) ...
Setting up libltdl7_amd64 (2.4.7-7build1) ...
Setting up docker-ce-cli (5:28.0.1-1ubuntu.24.04-noble) ...
Setting up libslirp0_amd64 (4.7.0-1ubuntu3) ...
Setting up pigz (2.8-1) ...
Setting up libnftneflink0_amd64 (1.0.2-2build1) ...
Setting up docker-ce-rootless-extras (5:28.0.1-1ubuntu.24.04-noble) ...
Setting up libmbtiles1_amd64 (1.0.9-1build1) ...
Setting up libnftnl1_amd64 (1.2.1-1build2) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up libnftnefilter-contrack3_amd64 (1.0.9-6build1) ...
Setting up iptables (1.8.10-3ubuntu2) ...
update-alternatives: using /usr/sbin/iptables-legacy to provide /usr/sbin/iptables (iptables) in auto mode
update-alternatives: using /usr/sbin/ip6tables-legacy to provide /usr/sbin/ip6tables (ip6tables) in auto mode
update-alternatives: using /usr/sbin/iptables-nft to provide /usr/sbin/iptables (iptables) in auto mode
update-alternatives: using /usr/sbin/ip6tables-nft to provide /usr/sbin/ip6tables (ip6tables) in auto mode
update-alternatives: using /usr/sbin/arpTables-nft to provide /usr/sbin/arpTables (arpTables) in auto mode
update-alternatives: using /usr/sbin/eBTables-nft to provide /usr/sbin/eBTables (eBTables) in auto mode
Setting up docker-ce (5:28.0.1-1ubuntu.24.04-noble) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4build1) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
faisal@FAISAL:~/mnt/c/Windows/system$3
```

```
sudo systemctl enable docker
```

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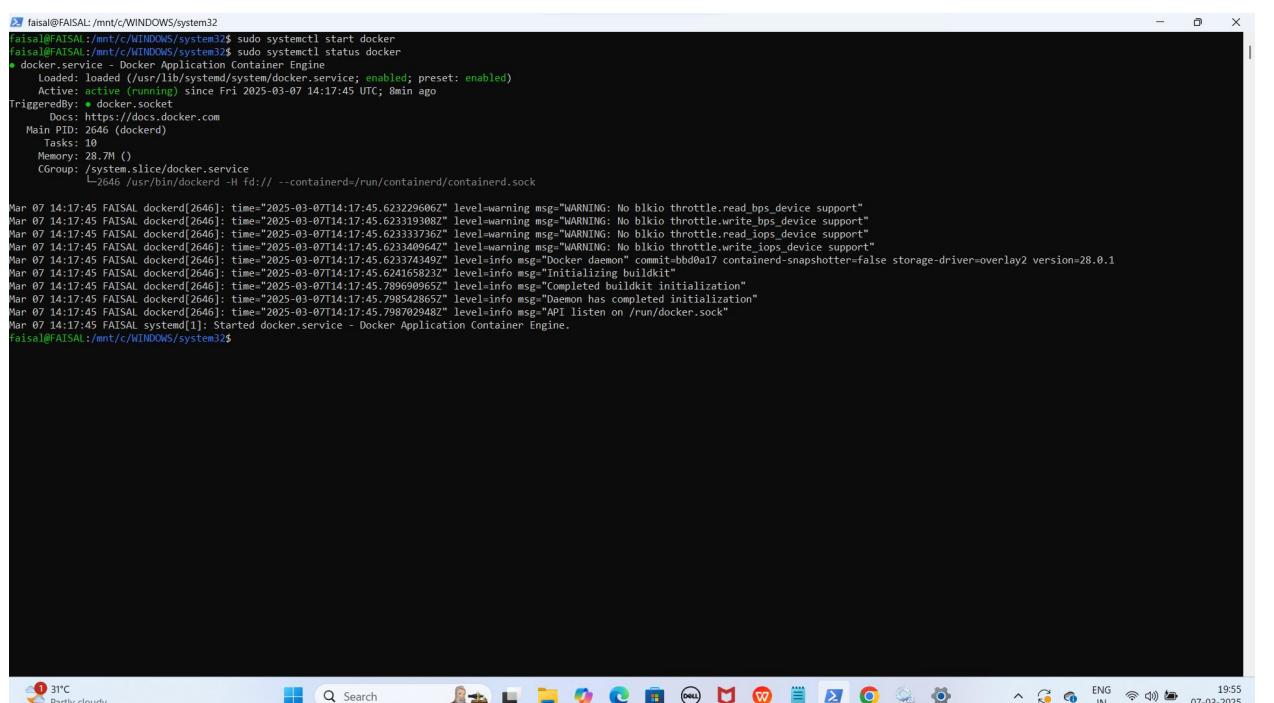


```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ sudo systemctl enable docker
synchronizing state of docker.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable docker
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

```
sudo systemctl start docker
```

sudo systemctl status docker

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```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ sudo systemctl start docker
faisal@FAISAL:/mnt/c/WINDOWS/system32$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
     Active: active (running) since Fri 2025-03-07 14:17:45 UTC; 8min ago
TriggeredBy: ● docker.socket
  Docs: https://docs.docker.com
 Main PID: 2646 (dockerd)
   Tasks: 10
  Memory: 28.7M
    CGroup: /system.slice/docker.service
           └─2646 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.623229606Z" level=warning msg="WARNING: No blkio throttle.read_bps_device support"
Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.623319308Z" level=warning msg="WARNING: No blkio throttle.write_bps_device support"
Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.623337367Z" level=warning msg="WARNING: No blkio throttle.read_iops_device support"
Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.623346647Z" level=warning msg="WARNING: No blkio throttle.write_iops_device support"
Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.623474322Z" level=info msg="Docker daemon commit=bbd0a17 containerd=snapshotter=false storage-driver=overlay2 version=28.0.1"
Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.624158322Z" level=info msg="Docker daemon buildkit=disabled"
Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.789690965Z" level=info msg="Completed buildkit initialization"
Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.798542865Z" level=info msg="Daemon has completed initialization"
Mar 07 14:17:45 FAISAL dockerd[2646]: time="2025-03-07T14:17:45.798702948Z" level=info msg="API listen on /run/docker.sock"
Mar 07 14:17:45 FAISAL systemd[1]: Started docker.service - Docker Application Container Engine.
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

## **Step 6: NPM Install Karna WSL ke andar (Future purpose ke liye)**

**NPM** ka main **purpose** yeh hai ke aap apne **project** ke liye **JavaScript libraries** aur **dependencies** ko asani se **install, update, aur manage** kar sakein.

### **1. Install karne ke liye ye commands run kariye**

```
sudo apt update && sudo apt install -y npm
```

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```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ Setting up node-core-js-compat (3.33.2-1build2) ... Setting up node-http-proxy-agent (7.0.0-0-2023071921-5) ... Setting up node-deep (4.0.1+~cs7.0.2-1) ... Setting up node-hal (0.4.0+~cs7.0.9-1build1) ... Setting up node-babel-plugin-polyfill-regenerator (0.4.1-0-20220913+ds1-1) ... Setting up node-gauge (4.0.4-2) ... Setting up node-readirp (3.6.0-1) ... Setting up node-ws (8.11.0+~cs13.7.3-2) ... Setting up node-cache-base (4.0.2-1) ... Setting up node-icss-utils (5.1.0+~5.1.0-1) ... Setting up node-npm-bundled (2.0.1-2) ... Setting up node-schema-utils (4.2.0-ds-3build3) ... Setting up node-jest-worker (29.6.2-ds1+~cs73.45.28-5) ... Setting up node-npmlog (7.0.1+~4.1.4-1) ... Setting up node-babel-plugin-polyfill-corejs3 (0.6.0-0-20220913+ds1-1) ... Setting up node-postcss-modules-values (4.0.0+~4.0.0-1) ... Setting up node-fil... Setting up node-braces (3.0.2+~3.0.1-1) ... Setting up node-chokidar (3.6.0-2) ... Setting up node-watchpack (2.4.0+~cs2.8.1-1) ... Setting up node-micromatch (4.0.5+~4.0.2-1) ... Setting up node-globby (13.1.3+~cs16.25.40-2) ... Setting up node-del (7.0.0-5) ... Setting up node-find-cache-dir (3.3.2+~3.2.1-1) ... Setting up node-istanbul (0.4.5+~repack10+~cs98.25.59-2) ... Setting up node-tap (5.6.1+~cs8.20.19-1) ... Setting up node-babel7 (7.20.15+ds1+~cs214.269.168-6build1) ... Setting up node-babel: using /usr/bin/babeljs-7 to provide /usr/bin/babeljs (babeljs) in auto mode update-alternatives: using /usr/bin/babeljs-7-external-helpers to provide /usr/bin/babeljs-external-helpers (babeljs-external-helpers) in auto mode update-alternatives: using /usr/bin/babeljs-7-node to provide /usr/bin/babeljs-node (babeljs-node) in auto mode update-alternatives: using /usr/bin/babeljs-7-parser to provide /usr/bin/babeljs-parser (babeljs-parser) in auto mode Setting up node-deep-equal (2.2.3+~cs13.15.94-1) ... Setting up libjs-util (0.12.5+~1.0.10-1) ... Setting up node-babel-plugin-lodash (3.2.4+~cs2.8.1-7) ... Setting up node-jest-debbundle (29.6.2-ds1+~cs73.45.28-5) ... Setting up node-tap (16.3.7+ds1+~cs50.9.19-4) ... Setting up node-util (0.12.5+~1.0.19-1) ... Setting up webpack (5.76.1+dsf1+~cs17.16.16-1) ... Setting up node-asser... (2.0.0+~cs3.9.8-2) ... Setting up node-css-loader (6.8.1+~cs14.0.17-1) ... Setting up node-parse-json (5.2.0+~cs51.1.7-1) ... Setting up npm (9.2.0-ds1-2) ... Processing triggers for man-db (2.30-ubuntu0.4) ... Processing triggers for man-db (2.12.0-4ubuntu0.4) ... Processing triggers for hicolor-icon-theme (0.17-2) ... Processing triggers for icon-theme (0.17-2) ...
```

## 2. Check karne ke liye NPM install howa hai ye command run kariye

```
npm -v
```

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```
faisal@FAISAL:/mnt/c/WINDOWS/system32$ npm -v
9.2.0
faisal@FAISAL:/mnt/c/WINDOWS/system32$
```

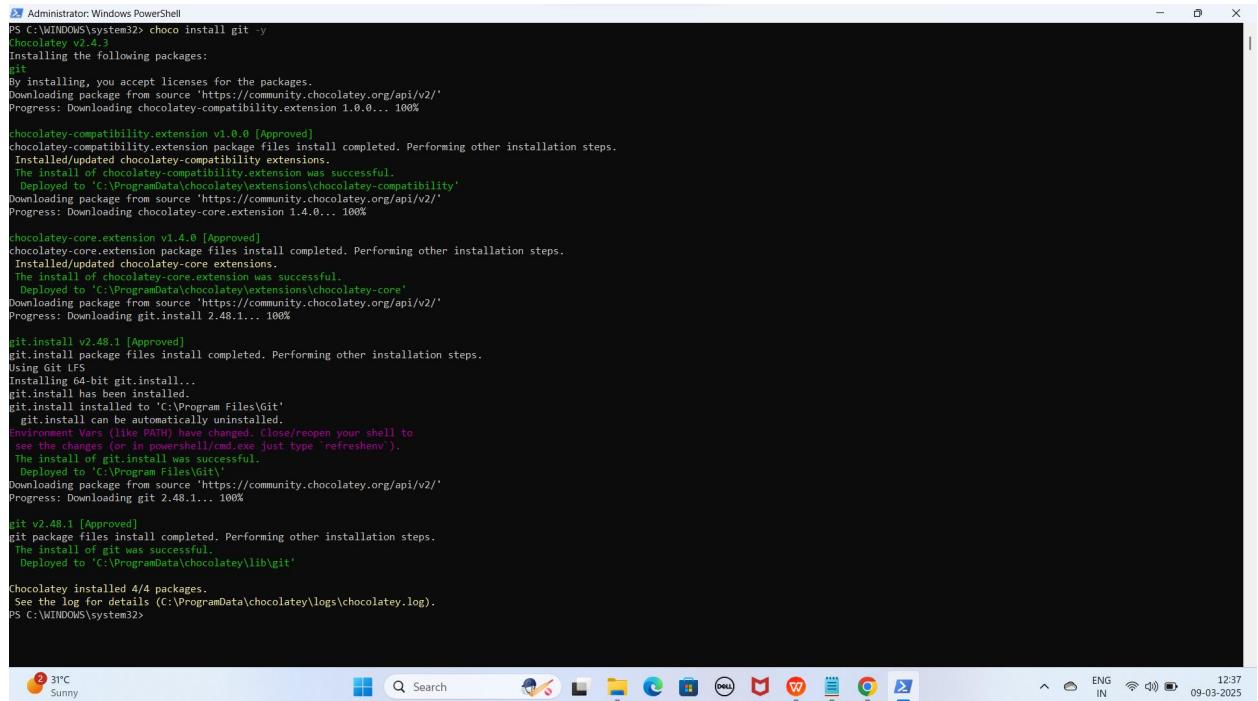
## Step 7: Git Install Karo (Future purpose ke liye)

**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
```

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```
PS C:\WINDOWS\system32> choco install git -y
chocolatey v2.1.0
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 git\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>
```

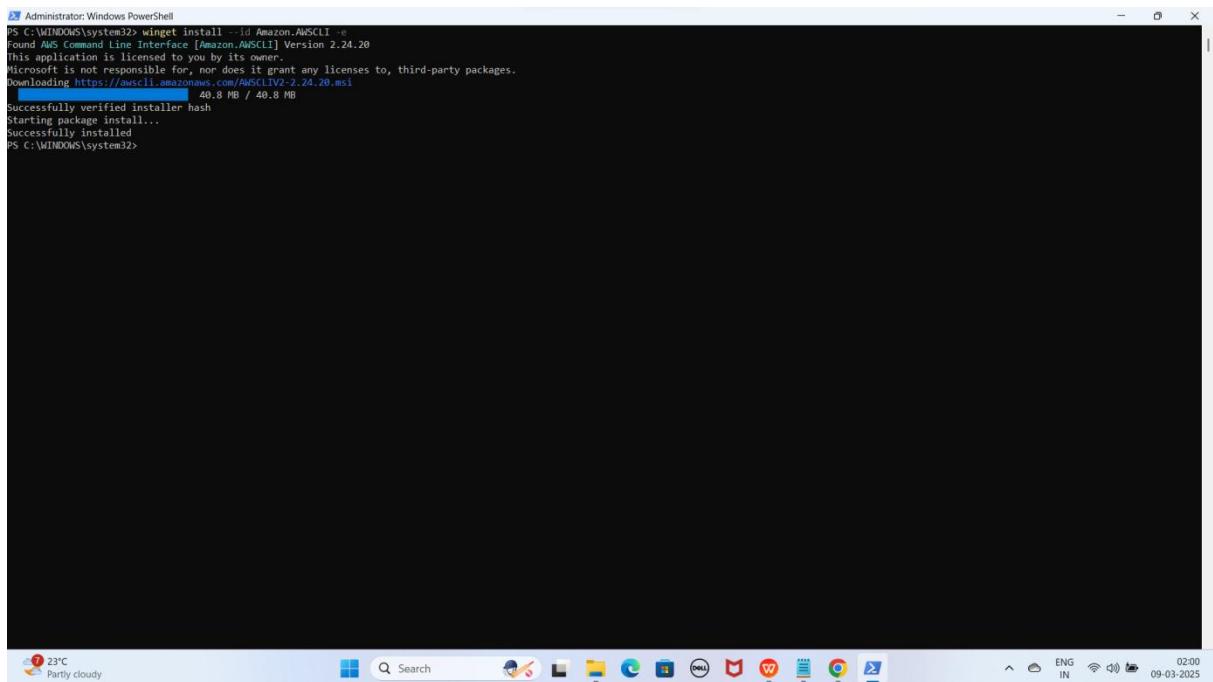
## Step 8: AWS CLI Install Karo

**AWS CLI (Amazon Web Services Command Line Interface)** ek **tool** hai jo command line se **AWS services** ko **manage** karne ke liye use hota hai. Iska matlab hai ke aap **AWS** ke **resources** jaise **EC2, S3, RDS**, aur **IAM users** ko **Local System terminal** se **control** kar sakte ho, bina **AWS Console** open kiye.

### 1. Install karne ke liye ye command run kariye

```
winget install --id Amazon.AWSCLI -e
```

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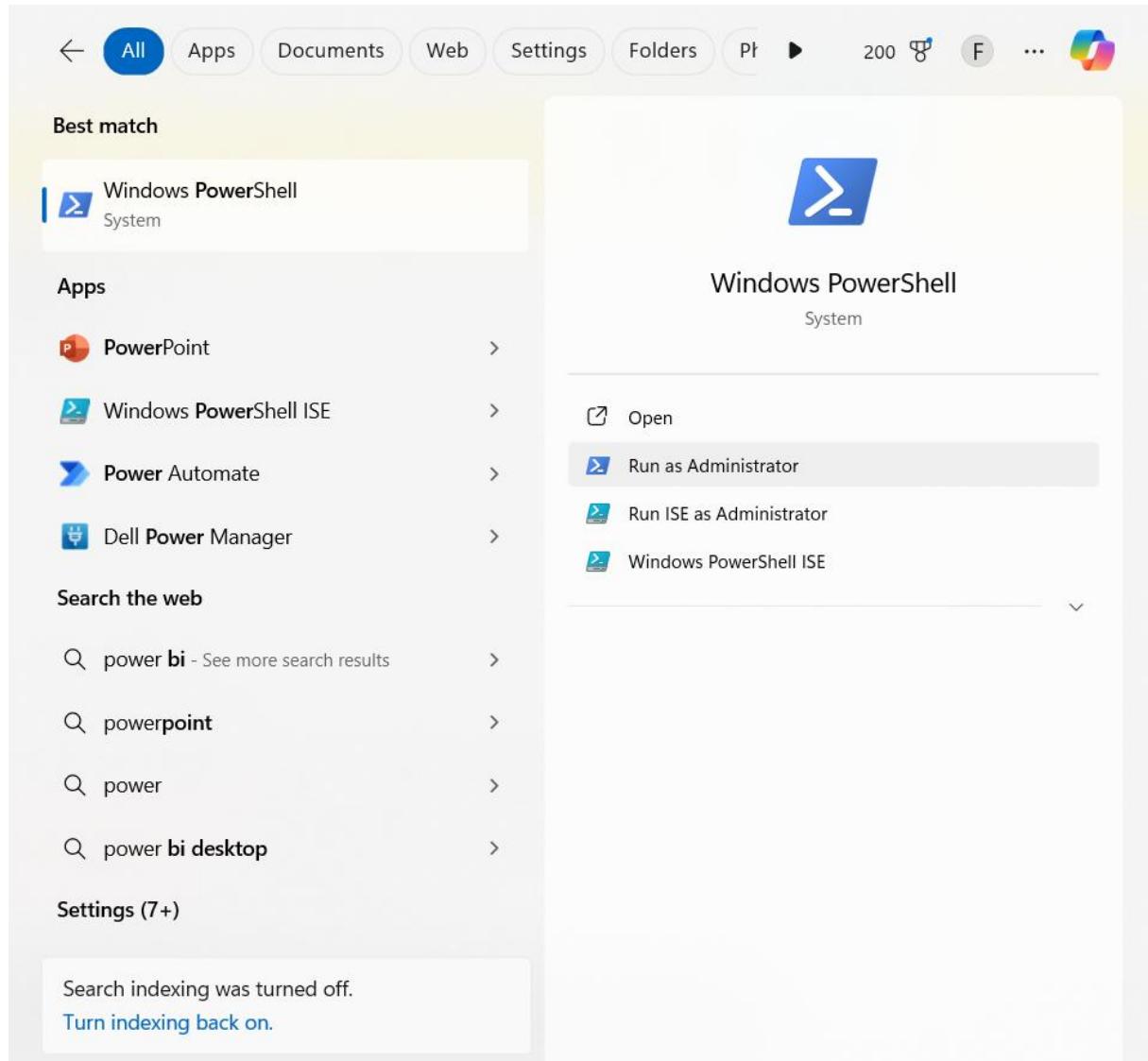
```
Administrator: Windows PowerShell
PS C:\Windows\system32> winget install --id Amazon.AWSCLI -e
Found AWS Command Line Interface [Amazon.AWSCLI] Version 2.24.20
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://awscli.amazonaws.com/AWSCLIV2-2.24.20.msi
  40.8 MB / 40.8 MB
Successfully verified installer hash
Starting package install...
Successfully installed
PS C:\Windows\system32>
```

**NOTE: AWS CLI install hone ke baad PowerShell ko again Run as Administrator se open karo**

## 2. AWS CLI Configure karne ke liye ye command run karo PowerShell open hone ke baad

aws configure

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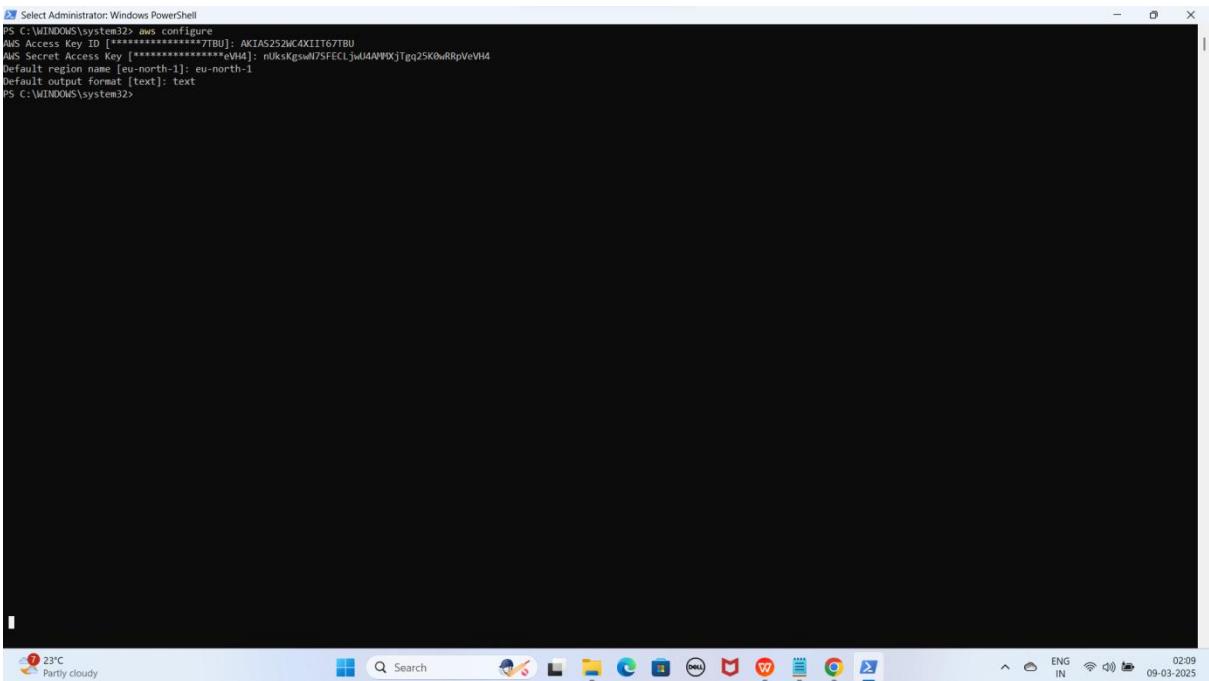
```
Administrator:Windows PowerShell
PS C:\WINDOWS\system32> aws configure
AWS Access Key ID [*****7TBU]:
```



### 3. Details Enter Karo

- **AWS Access Key ID:** XXXXXXXXXXXXXXXXXX
- **AWS Secret Access Key:** XXXXXXXXXXXXXXXXXXXXXXXXX
- **Default Region:** eu-north-1
- **Output Format:** text

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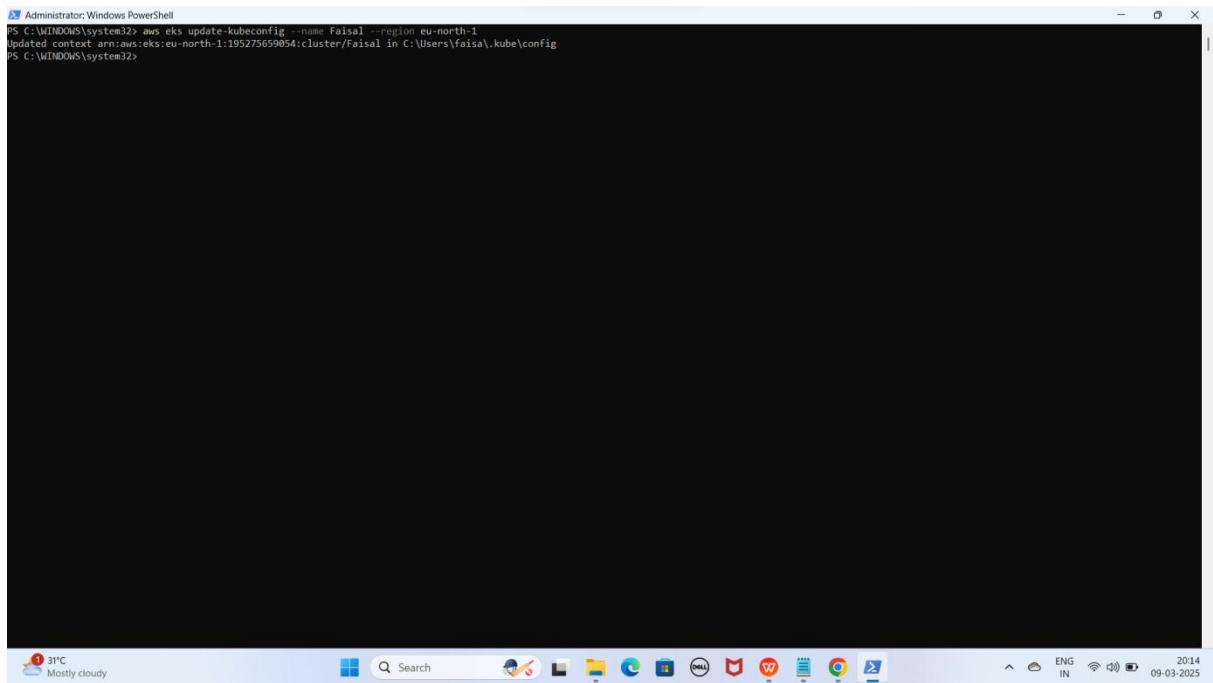
```
PS C:\WINDOWS\system32> aws configure
AWS Access Key ID [*****]: AKIAS252WC0XIIIT67TB0
AWS Secret Access Key [*****]: nUksKgswN7SECLjw04AMWxJtgq25K0wRRpVeVH4
Default region name [eu-north-1]: eu-north-1
Default output format [text]: text
PS C:\WINDOWS\system32>
```

The screenshot shows a Windows PowerShell window titled "Select Administrator: Windows PowerShell". The command "aws configure" is run, and the output displays the AWS Access Key ID, AWS Secret Access Key, Default region name, and Default output format. The PowerShell window is set against a background of a Windows desktop with a taskbar at the bottom.

#### 4. EKS Clsuter se Connect karne ke liye ye command run kariy

```
aws eks update-kubeconfig --name Faisal --region eu-north-1
```

YE KUCH ISTARHA LAGEGA



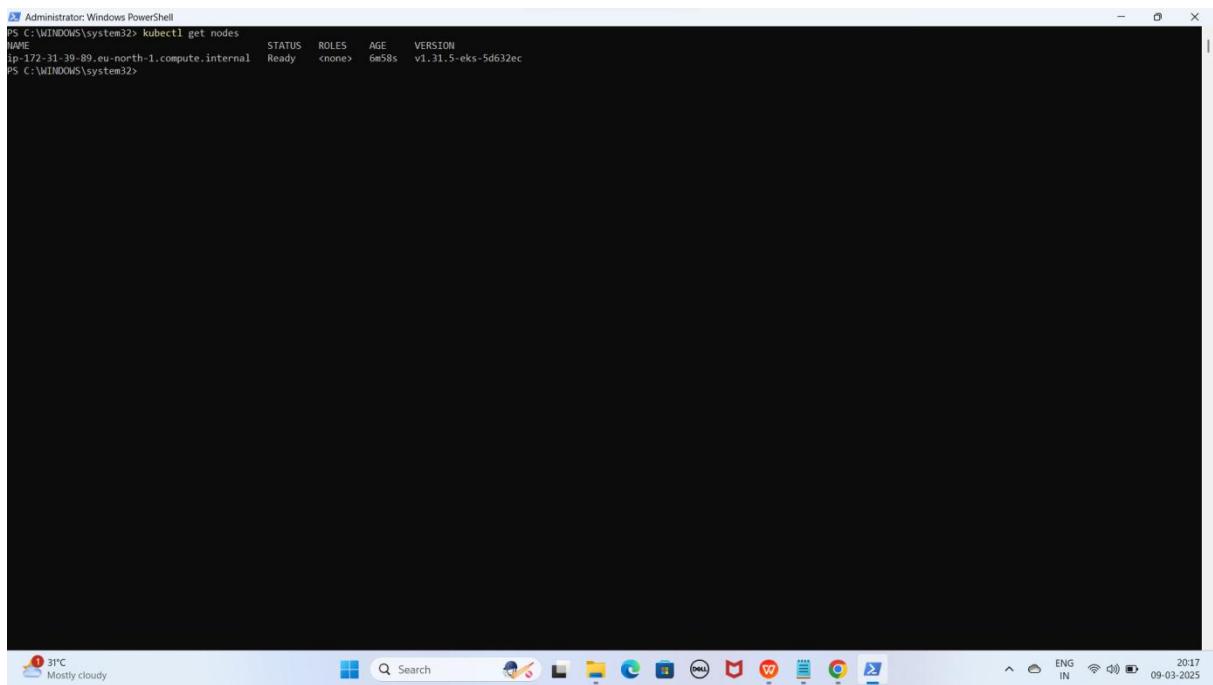
```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> aws eks update-kubeconfig --name Faisal --region eu-north-1
Updated context arn:aws:eks:eu-north-1:195275659054:cluster/Faisal in C:\Users\faisa\.kube\config
PS C:\WINDOWS\system32>
```

The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The command `aws eks update-kubeconfig --name Faisal --region eu-north-1` is entered and executed, resulting in the message "Updated context arn:aws:eks:eu-north-1:195275659054:cluster/Faisal in C:\Users\faisa\.kube\config". The PowerShell window is set against a dark background. Below the window, the Windows taskbar is visible, showing various icons for system status and applications.

## **5. Ab Cluster Nodes check karne ke liye ye command run kare**

kubectl get nodes

**YE KUCH ISTARHA LAGEGA**



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> kubectl get nodes
NAME           STATUS   ROLES      AGE     VERSION
ip-172-31-39-89.eu-north-1.compute.internal   Ready    <none>    6m58s   v1.31.5-eks-5d632ec
PS C:\WINDOWS\system32>
```

**NOTE: Agar STATUS Ready show kar raha hao to Congratulations  
aapka EKS CLUSTER Successfully Setup and configure hogaya  
hai ab aap Deployments kar sakte hai**

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