

GET TRAINED – GET HIRED

WWW.WEZVA.COM

+91-7829633132

+91 9739110917

# How to Create EC2 Instance in AWS

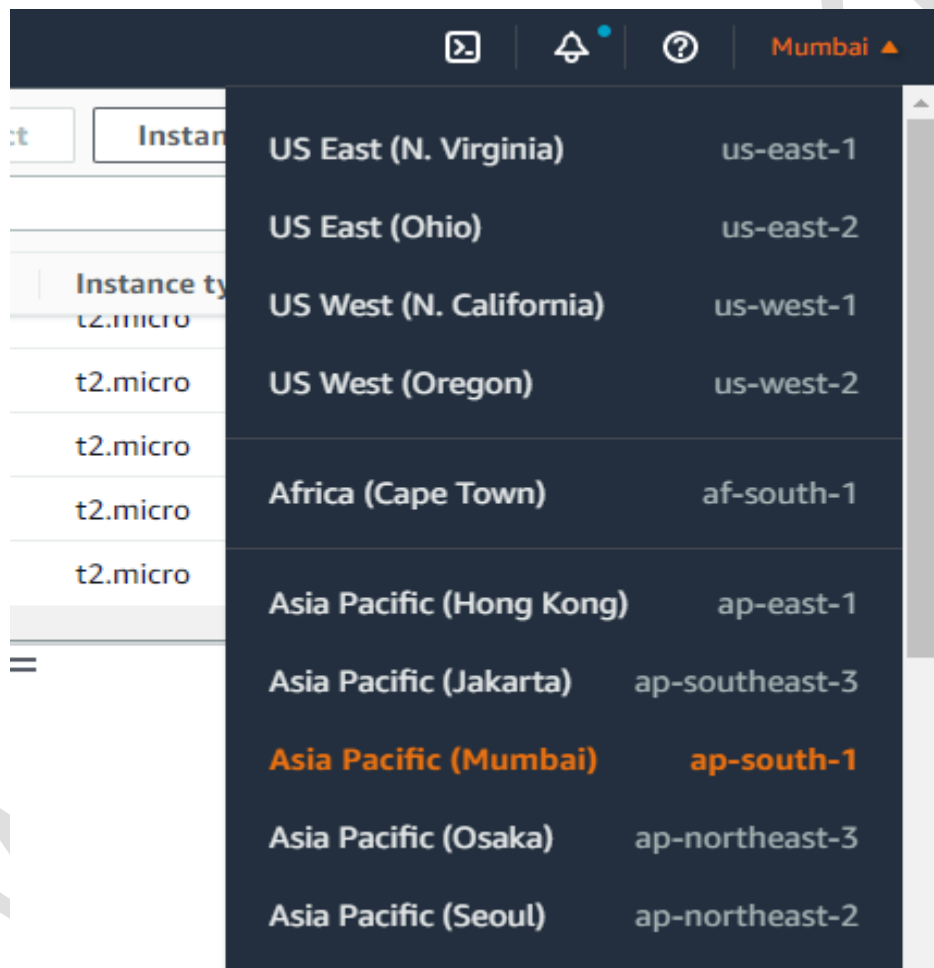


## Create an AWS Account and Sign into AWS.

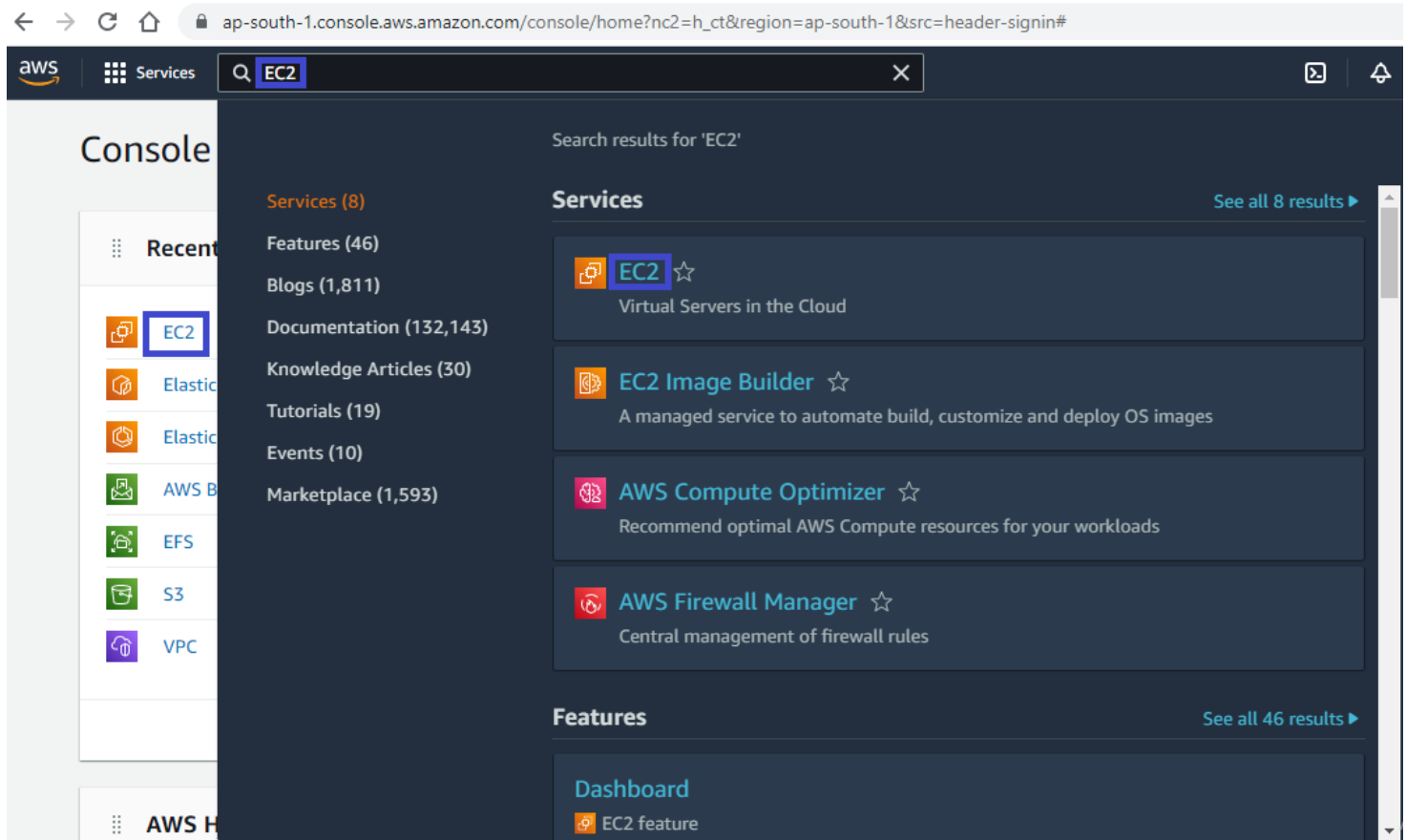
Note: If you don't have account in AWS then you need to create new AWS Account.

1. On the Amazon Web Services site (<https://aws.amazon.com/console/>), click on "Sign in to console". Sign in if you have account.
2. On the top right corner of the AWS Console Home dashboard, choose the AWS Region in which you want to provision the EC2 server.

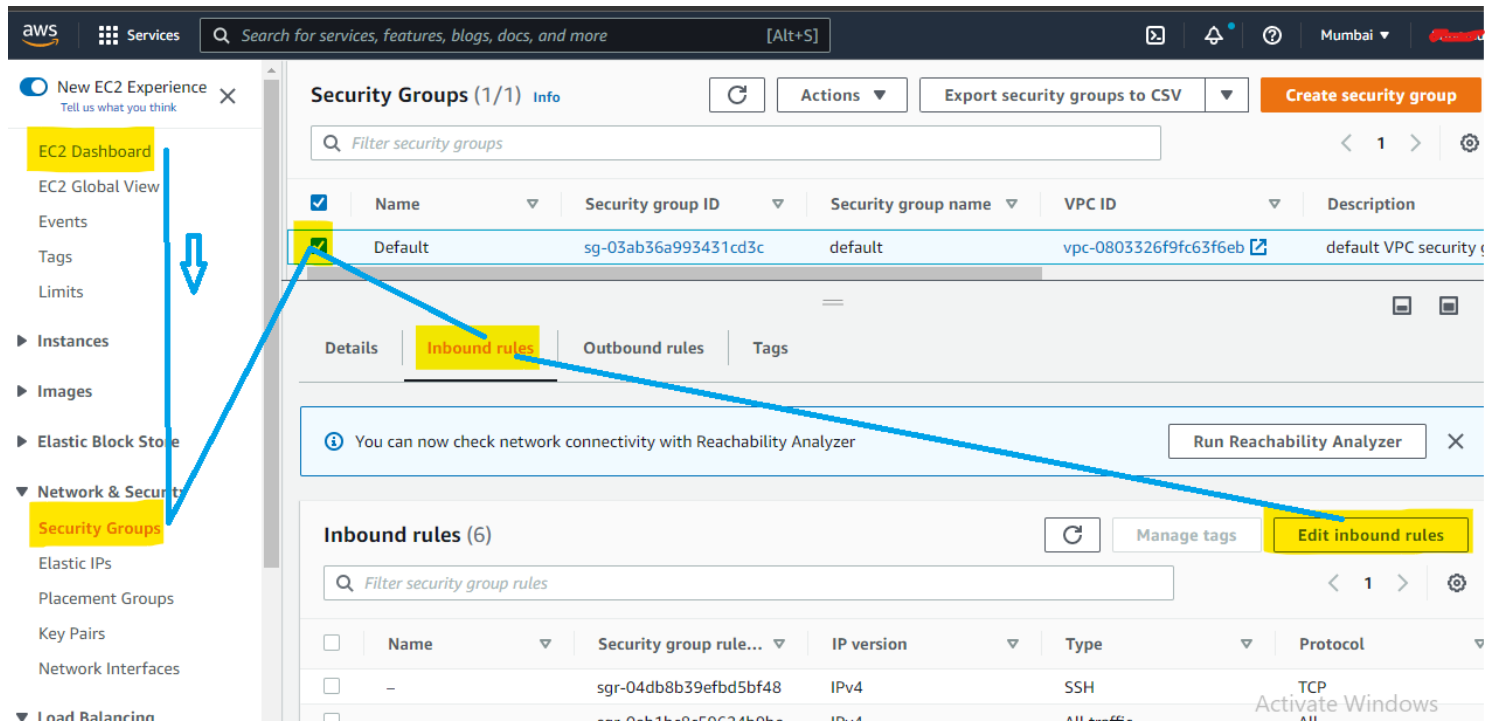
Here we are selecting Asia Pacific (Mumbai). AWS provides 23 Regions all over the globe.



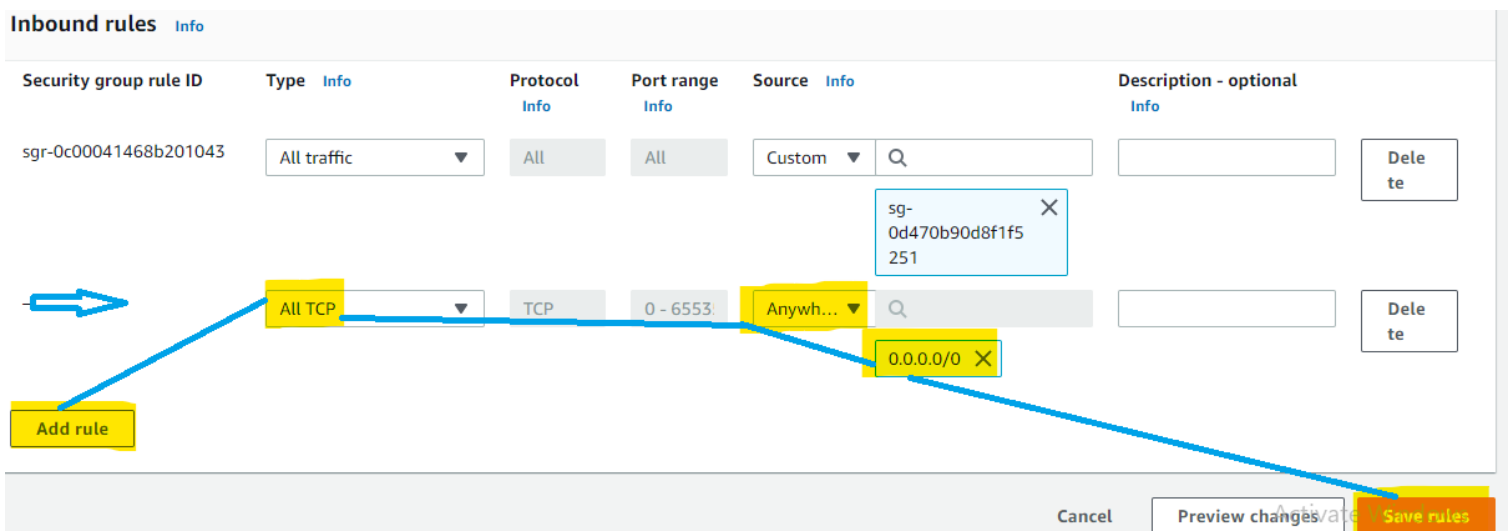
3. Click on EC2 in below Dashboard or Search click EC2 service. It will redirect to the EC2 Dashboard page



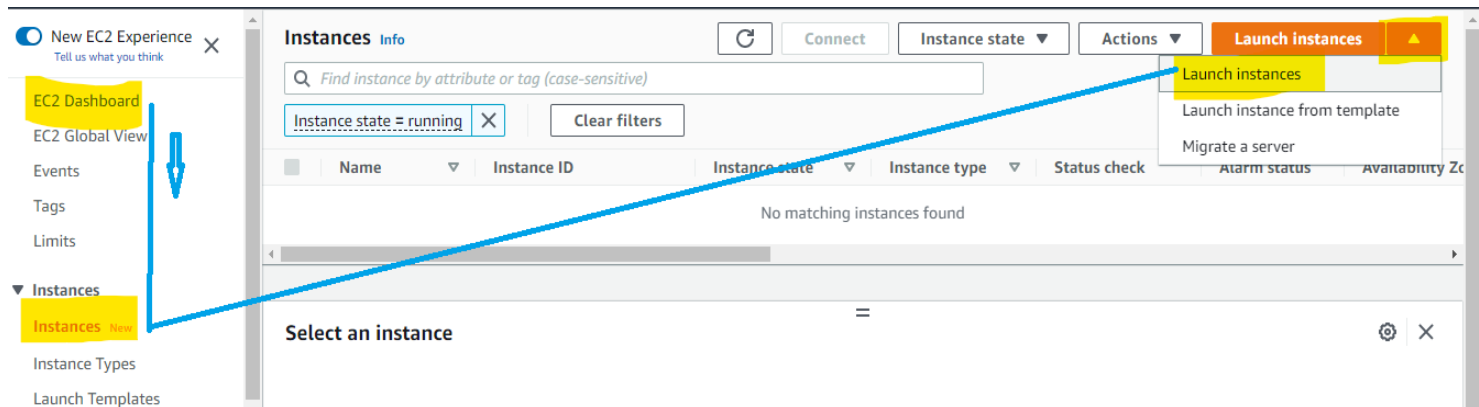
4. On the EC2 Dashboard, need to change the Security Group Inbound rules before creating instance in AWS.



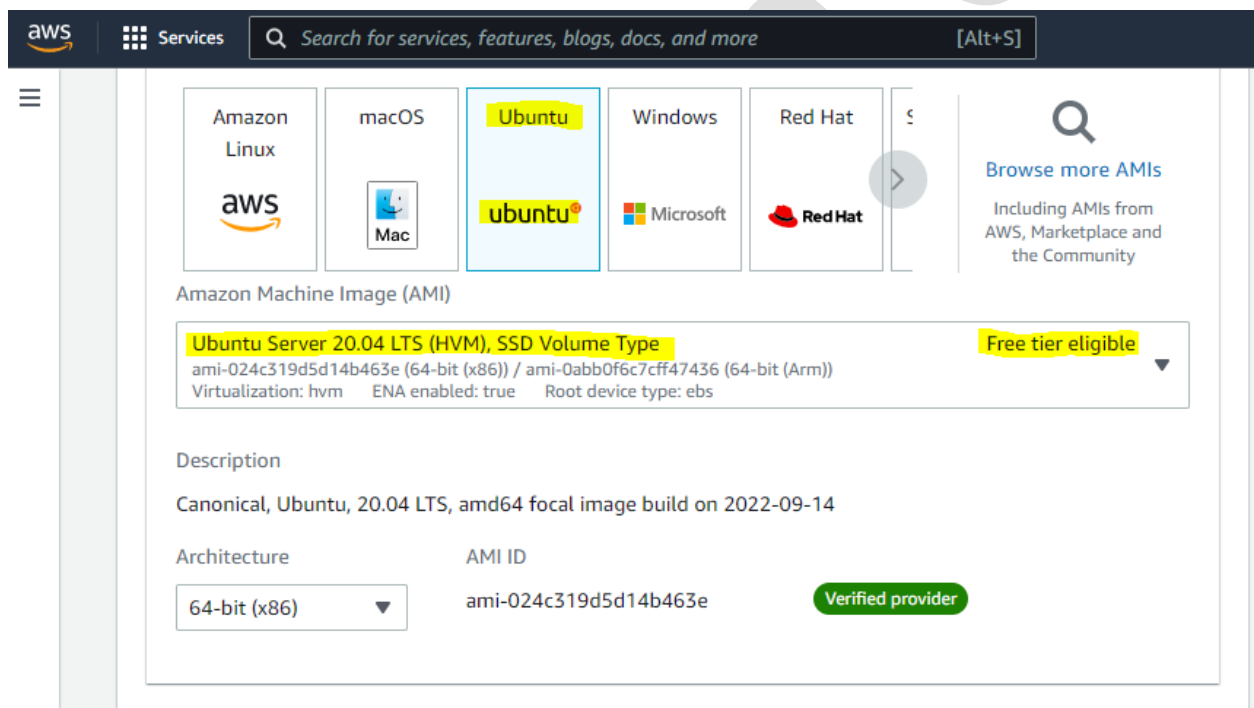
5. Add rules as per the below screen shot



6. On the EC2 Dashboard, click on Instance as per below image.  
And then click on Launch Instance.



7. Create a Ubuntu 20.04 OS instance with default VPC and SG group



8. Select the EC2 instance t2.micro which is we have in free tier access  
And also click and create new key pair

▼ **Instance type** [Info](#)

Instance type

**t2.micro** Free tier eligible

Family: t2 1 vCPU 1 GiB Memory  
On-Demand Linux pricing: 0.0124 USD per Hour  
On-Demand Windows pricing: 0.017 USD per Hour

[Compare instance types](#)

▼ **Key pair (login)** [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Select

[Create new key pair](#)

9. Create a New key pair as per below screen shot

**Create key pair** ×

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Key pair name

devops

The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ **RSA**  
RSA encrypted private and public key pair

☐ ED25519  
ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

☒ **.pem**  
For use with OpenSSH

☐ .ppk  
For use with PuTTY

[Cancel](#) [Create key pair](#)

10. Select key pair name which is we created above

**▼ Key pair (login)** [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

[Create new key pair](#)

11. Select default security group

**▼ Network settings** [Info](#) [Edit](#)

Network [Info](#)  
vpc-0803326f9fc63f6eb

Subnet [Info](#)  
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)  
Enable

**Firewall (security groups)** [Info](#)  
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☐ Create security group ☒ [Select existing security group](#)

Common security groups [Info](#)  
 [Compare security group rules](#)

[VPC: vpc-0803326f9fc63f6eb](#)

Security groups that you add or remove here will be added to or removed from all your network interfaces.

**▼ Summary**

Number of instances [Info](#)

Software Image (AMI)  
Canonical, Ubuntu, 20.04 LTS, ...[read more](#)  
ami-024c319d5d14b463e

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
default

Storage (volumes)  
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#)

12. Click Launch Instance above screen shot

aws [Services](#)  [Alt+S] [Mumbai](#)

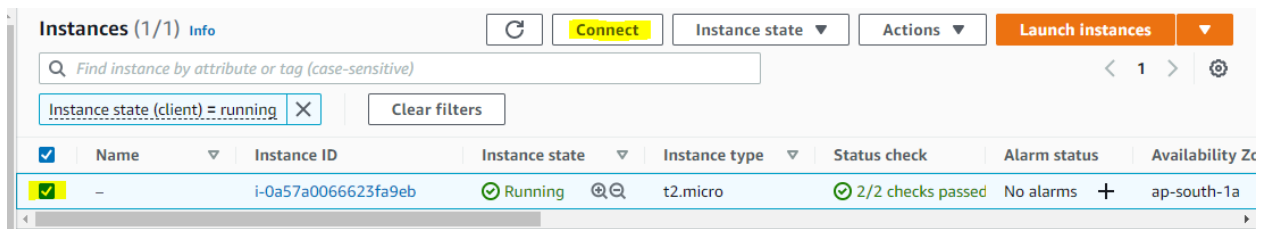
EC2 > [Instances](#) > Launch an instance

**Success**  
Successfully initiated launch of instance (i-0a57a0066623fa9eb)  
[Launch log](#)

**Next Steps**

**Get notified of estimated charges**  
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)

13. Select created instance and click connect as per the below screen shot



14. In SSH client copy the below mention link

**Connect to instance** Info

Connect to your instance i-0a57a0066623fa9eb using any of these options

EC2 Instance Connect | Session Manager | **SSH client** | EC2 serial console

Instance ID  
i-0a57a0066623fa9eb

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is devops.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
chmod 400 devops.pem
4. Connect to your instance using its Public DNS:  
ec2-13-126-202-212.ap-south-1.compute.amazonaws.com

Example:

```
ssh -i "devops.pem" ubuntu@ec2-13-126-202-212.ap-south-1.compute.amazonaws.com
```

**Note:** In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel



15. As per below screen shot connect the instance using with Git Bash  
(Before run the below SSH command, where is your .pem file their you also should be the same location in git bash screen)

```
ubuntu@ip-172-31-35-163: ~  
  
admin@DESKTOP-RJSM3QR MINGW64 ~/Downloads  
$ ssh -i "devops.pem" ubuntu@ec2-13-126-202-212.ap-south-1.compute.amazonaws.com  
The authenticity of host 'ec2-13-126-202-212.ap-south-1.compute.amazonaws.com (13.126.202.212)' can't be established.  
ED25519 key fingerprint is SHA256:QdMDYeLRbVRQfuP0BQKtgcPACsVoZCaCi/iyRn2V3yo.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-13-126-202-212.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.  
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1019-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Thu Oct  6 13:32:21 UTC 2022  
  
System load:  0.0              Processes:            98  
Usage of /:   19.6% of 7.57GB  Users logged in:     0  
Memory usage: 23%             IPv4 address for eth0: 172.31.35.163  
Swap usage:   0%  
  
0 updates can be applied immediately.  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-35-163:~$ |
```

[www.wezva.com](http://www.wezva.com)

facebook

<https://www.facebook.com/wezva>

Linked in

<https://www.linkedin.com/in/wezva>



+91 7829633132

+91 9739110917