

AWS instance setup:

1. Log in to AWS account and launch console.
2. Launch virtual machine
3. Select AMI if already exists
4. GPU – g3.4xlarge
5. Generate a key pair and download the key in .pem version
6. Launch the instance

GCP instance setup:

1. Launch Google cloud console
2. Launch compute engine
3. Create a project and click create intents
4. Select the following options in the instance creation tab:
 - i. Zone – US central-a-zone
 - ii. Series- N1
 - iii. Machine type – n1-standard-8(30GB)
 - iv. GPU – nvidia-teslaT4/P4
 - v. Boot disk – ubuntu, version – 20.04, size – 300
 - vi. Add the public key generated using Puttygen software

For windows,

1. Create a SSH session in mobaxterm
2. Host: External IP from any one of the instances
3. Name: ubuntu
4. Add the private key downloaded from the instances
5. Click ok.
6. Create a folder in the cloud

PyCharm integration:

1. Create a project
2. Tools -> Deployment -> Configuration -> Add SFTP
 - i. SSH configuration: Host- IP address from instances, name: ubuntu, authorize using the private key pair.
 - ii. Test the connection
 - iii. In mappings, map the remote local path and the cloud folder's path
 - iv. Deployment -> Configuration -> Automatic upload
3. Setup the Interpreter
 - i. Python interpreter -> SSH interpreter -> Existing server configuration -> Choose the cloud -> click ok.