Steps to setup and run application in ec2 instance

1. Create an EC2 instance and download the pem file.
2. In Windows system we need putty and puttyGen to access the ec2 instance.
3. If you are trying to run a next.js project in the ec2 instance, delete the node modules folder and zip the project and store it in the same location as the pem file.
4. Use PuttyGen to convert pem file to ppk file format as it is supported by putty.
5. Configure the putty session with following :

* In the session tab-> hostname, add the hostname of the ec2 instance. Port number leave it as 22
* In the connection tab->data-> auto-login username, add the username for the ec2 instance.
* Eg. [ubuntu@ec2-34-228-187-79.compute-1.amazonaws.com](mailto:ubuntu@ec2-34-228-187-79.compute-1.amazonaws.com), the username is before @ and hostname is after @
* In the SSH->Auth->Connections->private-key file for authentication, add the ppk file path to this.
* click on open now and if all details are correct it will open a session for ec2 instance.

1. Now open cmd in local. Run the scp command to send the project which has been zipped to the ec2 instance.

* Eg. : scp -i "C:\Users\sreer\Downloads\test.pem" "C:\Users\sreer\Downloads\project.zip" [ubuntu@ec2-34-228-187-79.compute-1.amazonaws.com](mailto:ubuntu@ec2-34-228-187-79.compute-1.amazonaws.com)

1. Install npm, unzip in the ubuntu terminal as they are needed to run the next.js application.
2. Now unzip the project and install the node modules. After successfully installed we need to now run the next.js application in the ec2 instance.
3. As the next.js application generally runs on the 3000 port, In the ec2 instance of this project :

* Navigate to Security-> inbound rules.
* Add a new tcp rule where port is 3000. Save

1. Now in the ubuntu terminal build and run the application :

* First do npm run build.
* Next if it the application is using vite do npm run preview
* pm2 start "serve -s dist" --name "project"
* pm2 save
* Now run command : “pm2 logs” to check if the application is accepting connections.

1. If the above step is successful, open the public url generated by the ec2 instance with port 3000. Eg. http://34.228.187.79:3000