

Assignment for Cloud Engineer

1. Find a publicly available sample frontend application (e.g., Next.js or Vue.js), host it on an AWS EC2 instance (Linux OS), and set up a reverse proxy using a web server (Nginx or Apache). No backend is needed for this task.
2. Create a README file in GIT repository detailing the steps you took to complete this task with screen shots.

Note – You can submit whatever progress you have made at the end of 3 days from the date of receiving this assignment. Completing this assignment increases your chances of getting hired.

Assignments1

- Copy git repository

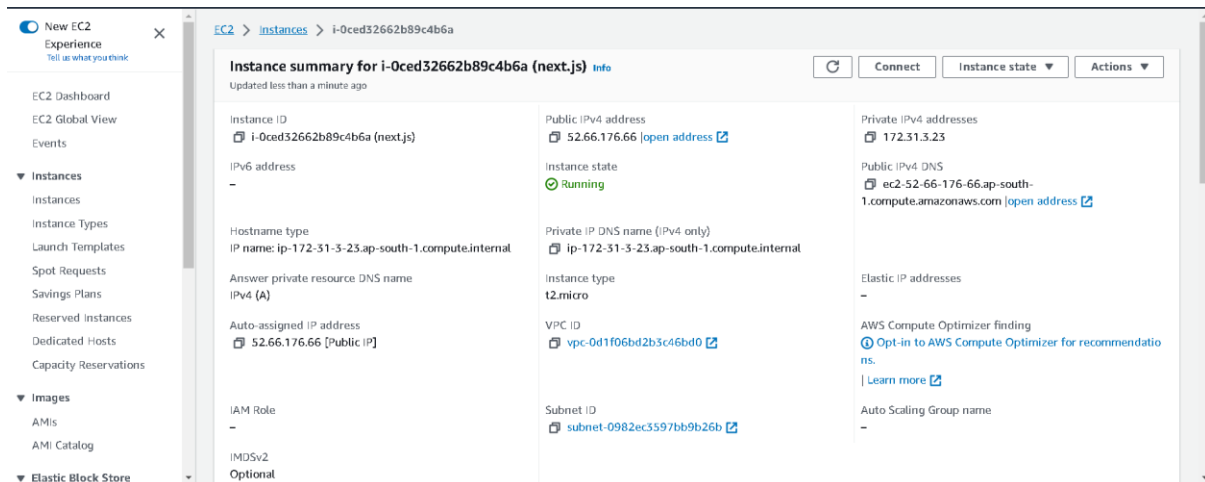
The screenshot shows the GitHub interface for a repository named 'assignment-4' owned by 'Imran9198'. The repository is public and has 1 branch (main) and 0 tags. The commit history shows a series of updates by 'warengonzaga' on August 14, 2022, with 5 commits. The file list includes .github, pages, public, styles, .eslintrc.json, .gitignore, LICENSE, README.md, next.config.js, package.json, and yarn.lock.

File	Commit Message	Commit Date	Commit Count
.github	CHORE: update info	43d9b48 on Aug 14, 2022	5 commits
pages	CHORE: add initial info		
public	Initial commit from Create Next App		
styles	Initial commit from Create Next App		
.eslintrc.json	Initial commit from Create Next App		
.gitignore	Initial commit from Create Next App		
LICENSE	CHORE: add license		
README.md	CHORE: update info		
next.config.js	Initial commit from Create Next App		
package.json	Initial commit from Create Next App		
yarn.lock	Initial commit from Create Next App		

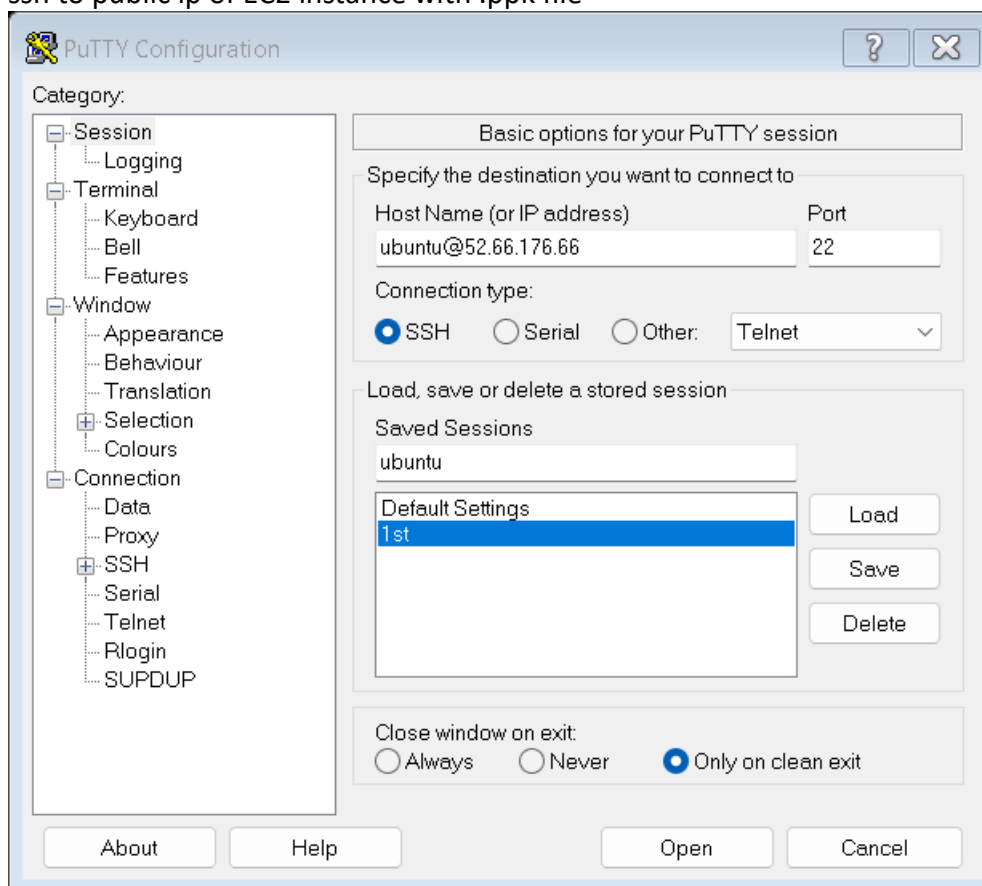
- Create EC2 instance on aws portal
- select Ubuntu 22.04 LTS OS ,t2 micro,with default vpc
- create .ppk key , create security group with all traffic allow inbound rule.

The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store. The main content area displays the 'Instances (1)' page, showing a table with one instance named 'next.js' in the 'Running' state, using the 't2.micro' instance type. The instance is located in the 'ap-south-1b' availability zone. Below the table, there is a 'Select an instance' dialog box.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
next.js	i-0ced52662b89c4b6a	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-52-66-176-...



- ssh to public ip of EC2 instance with .ppk file



- `sudo apt update` (to ensure your instance has the latest updates.)
- `curl -sL https://deb.nodesource.com/setup_16.x | sudo -E bash -` (copy file from web site)
- `sudo apt-get install -y nodejs` (install nodejs)
- `node -v` (check nodejs version)
- `git clone https://github.com/Imran9198/assignment-4.git` (Clone your Nextjs App from GitHub)
- `cd sample-nextjs-app/` (change directory application)
- `npm install` (Install required node modules)
- `npm run build` (to make application ready)
- `sudo npm install pm2 -g` (Install PM2 using the below command)

- pm2 (to run application)

[illegible]

- `pm2 start npm --name nextjs-app -- run start -- -p 3000` (Execute the below code to run Next.js with PM2 (**security group should allow HTTP on port 3000**))
- copy instance public ip and add port no. 3000

<http://52.66.176.66:3000/>



Welcome to Sample **Next.js** App!

💻❤️☕ by Waren Gonzaga