

1. Create a new instance.

- Application and OS Images (Amazon Machine Image) – select Amazon Linux and 64-bit Architecture, AMI ID.
- Create a New Key Pair with a random name and select. ppk as private key file format. Click on Create key pair (file will get auto download).
- Check to Allow SSH traffic from & Allow HTTPS traffic from the internet.
- Click on launch instance.

2. Connection Instance with Putty

- Download Putty and extract it.
- Click on top of the instance Id from Newley created instance.
- Copy the Public IPv4 DNS address and paste it in the putty Host Name (or IP address)
- Expand SSH left panel in putty.
- Expand the Auth panel under SSH in Putty
- Click on Credentials
- Click on browse for the Private key file for authentication.
- Upload the ppk file which was downloaded initially on creating the instance.
- Click on open.
- Click on the accept button if modal windows open with the title of PuTTY Security Alert
- Login as - ec2-user
- Message - Authenticating with public key and now it got connected.

3. Run this command:

- **curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.5/install.sh | bash** (It downloads and executes a script from the specified URL)
- **sudo yum update.**
- **sudo systemctl status nginx** (It shows nginx running status)
- **sudo systemctl start nginx** (To start nginx)
- **sudo vim /etc/nginx/nginx.conf** (To edit the configuration of nginx)
- **Click on I to write the method and paste the below lines!**

location {

```
proxy_pass http://localhost:3210;
proxy_http_version 1.1;
proxy_set_header Upgrade $http_upgrade;
proxy_set_header Connection 'upgrade';
proxy_set_header Host $host;
proxy_cache_bypass $http_upgrade;
```

# THE END

}

4. Run this command :

- **sudo systemctl restart nginx** ( To restart nginx) after that check the nginx status, it needs to active (running) state
- **sudo yum install git** (install Git)
- **sudo git clone <https://github.com/fayazahamedd/reactPortFolio.git>**

5. Run the commands:

- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ cd ..**
- **[ec2-user@ip-172-31-4-163 ~]\$ cd ..**
- **[ec2-user@ip-172-31-4-163 home]\$ ls**
- **ec2-user**
- **[ec2-user@ip-172-31-4-163 home]\$ cd ec2-user/**
- **[ec2-user@ip-172-31-4-163 ~]\$ sudo chmod -R 777 reactPortFolio/**
- **[ec2-user@ip-172-31-4-163 ~]\$ cd reactPortFolio/**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ sudo yum install -y nodejs**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ sudo npm install -g npm@10.3.0**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ npm install -force**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ sudo yum install xdg-utils**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ npm run dev**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ npm run build**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ sudo npm install pm2 -g**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ pm2 start npm --name "reactPortFolio" -- run dev.**
- **[ec2-user@ip-172-31-4-163 reactPortFolio]\$ pm2 status**(To check the status of pm2)

6. Copy the Public IPv4 address from the instance summary paste it in Chrome and finally web app starts running.

-----  
-----

**sudo journalctl -xe | grep nginx** (Check for Errors in NGINX Configuration)

**THE END**



```
Last login: Thu Jan 25 16:46:45 2024 from 157.50.30.96
```

```
[ec2-user@ip-172-31-23-191 ~]$ sudo vim /etc/nginx/nginx.conf
```

```
[ec2-user@ip-172-31-23-191 ~]$ sudo vim /etc/nginx/nginx.conf
```

```
[ec2-user@ip-172-31-23-191 ~]$ sudo systemctl restart nginx
```

```
[ec2-user@ip-172-31-23-191 ~]$ sudo systemctl status nginx
```

- `nginx.service` - The nginx HTTP and reverse proxy server

```
Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: d>
```

Active: **active (running)** since Thu 2024-01-25 16:52:51 UTC; 3s ago

```
Process: 25714 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, sta>
```

```
Process: 25729 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
```

```
Process: 25734 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
```

```
Main PID: 25747 (nginx)
```

```
CGroup: /system.slice/nginx.service
```

```
Jan 25 16:52:51 ip-172-31-23-191.us-east-2.compute.internal systemd[1]: Starting>
```

```
Jan 25 16:52:51 ip-172-31-23-191.us-east-2.compute.internal nginx[25729]: nginx>
```

```
Jan 25 16:52:51 ip-172-31-23-191.us-east-2.compute.internal nginx[25729]: nginx>
```

```
Jan 25 16:52:51 ip-172-31-23-191.us-east-2.compute.internal systemd[1]: Started>
```

```
lines 1-18/18 (END)
```

 $\hat{C}$ 

```
[ec2-user@ip-172-31-23-191 ~]$ ^C
```

```
[ec2-user@ip-172-31-23-191 ~]$ sudo yum install git
```

```
Last metadata expiration check: 0:06:38 ago on Thu Jan 25 16:46:28 2024.
```

```
Dependencies resolved.
```

Package	Arch	Version	Repository	Size
---------	------	---------	------------	------

```
Installing:
```

```
git x86_64 2.40.1-1.amzn2023.0.1 amazonlinux 57 k
```

```
Installing dependencies:
```

# THE END

Installing dependencies:

git-core	x86_64	2.40.1-1.amzn2023.0.1	amazonlinux	4.3 M
git-core-doc	noarch	2.40.1-1.amzn2023.0.1	amazonlinux	2.6 M
perl-Error	noarch	1:0.17029-5.amzn2023.0.2	amazonlinux	41 k
perl-File-Find	noarch	1.37-477.amzn2023.0.6	amazonlinux	26 k
perl-Git	noarch	2.40.1-1.amzn2023.0.1	amazonlinux	45 k
perl-TermReadKey	x86_64	2.38-9.amzn2023.0.2	amazonlinux	36 k
perl-lib	x86_64	0.65-477.amzn2023.0.6	amazonlinux	15 k

Transaction Summary

=====  
Install 8 Packages

Total download size: 7.1 M

Installed size: 34 M

Is this ok [y/N]: y

Downloading Packages:

(1/8): perl-lib-0.65-477.amzn2023.0.6.x86_64.rpm	280 kB/s   15 kB	00:00
(2/8): git-2.40.1-1.amzn2023.0.1.x86_64.rpm	934 kB/s   57 kB	00:00
(3/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86	3.0 MB/s   36 kB	00:00
(4/8): perl-File-Find-1.37-477.amzn2023.0.6.noa	1.9 MB/s   26 kB	00:00
(5/8): perl-Error-0.17029-5.amzn2023.0.2.noarch	2.3 MB/s   41 kB	00:00
(6/8): git-core-2.40.1-1.amzn2023.0.1.x86_64.rpm	31 MB/s   4.3 MB	00:00
(7/8): perl-Git-2.40.1-1.amzn2023.0.1.noarch.rpm	1.2 MB/s   45 kB	00:00
(8/8): git-core-doc-2.40.1-1.amzn2023.0.1.noarc	25 MB/s   2.6 MB	00:00

-----  
Total 32 MB/s | 7.1 MB 00:00

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing	:	1/1
Installing	: git-core-2.40.1-1.amzn2023.0.1.x86_64	1/8
Installing	: git-core-doc-2.40.1-1.amzn2023.0.1.noarch	2/8
Installing	: perl-Error-1:0.17029-5.amzn2023.0.2.noarch	3/8
Installing	: perl-File-Find-1.37-477.amzn2023.0.6.noarch	4/8
Installing	: perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64	5/8
Installing	: perl-lib-0.65-477.amzn2023.0.6.x86_64	6/8
Installing	: perl-Git-2.40.1-1.amzn2023.0.1.noarch	7/8
Installing	: git-2.40.1-1.amzn2023.0.1.x86_64	8/8
Running scriptlet:	git-2.40.1-1.amzn2023.0.1.x86_64	8/8
Verifying	: git-2.40.1-1.amzn2023.0.1.x86_64	1/8
Verifying	: git-core-2.40.1-1.amzn2023.0.1.x86_64	2/8
Verifying	: perl-lib-0.65-477.amzn2023.0.6.x86_64	3/8
Verifying	: perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64	4/8
Verifying	: git-core-doc-2.40.1-1.amzn2023.0.1.noarch	5/8

**THE END**

ec2-user@ip-172-31-23-191:~/reactPortFolio

```
Verifying      : git-core-doc-2.40.1-1.amzn2023.0.1.noarch      5/8
Verifying      : perl-File-Find-1.37-477.amzn2023.0.6.noarch    6/8
Verifying      : perl-Error-1:0.17029-5.amzn2023.0.2.noarch    7/8
Verifying      : perl-Git-2.40.1-1.amzn2023.0.1.noarch        8/8
```

Installed:

```
git-2.40.1-1.amzn2023.0.1.x86_64
git-core-2.40.1-1.amzn2023.0.1.x86_64
git-core-doc-2.40.1-1.amzn2023.0.1.noarch
perl-Error-1:0.17029-5.amzn2023.0.2.noarch
perl-File-Find-1.37-477.amzn2023.0.6.noarch
perl-Git-2.40.1-1.amzn2023.0.1.noarch
perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64
perl-lib-0.65-477.amzn2023.0.6.x86_64
```

Complete!

```
[ec2-user@ip-172-31-23-191 ~]$ sudo git clone https://github.com/fayazahamedd/reactPortFolio.git
```

Cloning into 'reactPortFolio'...

remote: Enumerating objects: 99, done.

remote: Counting objects: 100% (39/39), done.

remote: Compressing objects: 100% (35/35), done.

remote: Total 99 (delta 5), reused 17 (delta 2), pack-reused 60

Receiving objects: 100% (99/99), 48.66 MiB | 38.65 MiB/s, done.

Resolving deltas: 100% (7/7), done.

```
[ec2-user@ip-172-31-23-191 ~]$ cd ..
```

```
[ec2-user@ip-172-31-23-191 home]$ cd ec2-user/
```

```
[ec2-user@ip-172-31-23-191 ~]$ sudo chmod -R 777 reactPortFolio/
```

```
[ec2-user@ip-172-31-23-191 ~]$ cd reactPortFolio/
```

```
[ec2-user@ip-172-31-23-191 reactPortFolio]$ sudo yum install -y nodejs
```

Last metadata expiration check: 0:07:36 ago on Thu Jan 25 16:46:28 2024.

Dependencies resolved.

Package	Arch	Version	Repository	Size
---------	------	---------	------------	------

Installing:

nodejs	x86_64	1:18.18.2-1.amzn2023.0.1	amazonlinux	1.8 M
--------	--------	--------------------------	-------------	-------

Installing dependencies:

libbrotli	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	315 k
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nodejs-libs	x86_64	1:18.18.2-1.amzn2023.0.1	amazonlinux	14 M
-------------	--------	--------------------------	-------------	------

Installing weak dependencies:

nodejs-docs	noarch	1:18.18.2-1.amzn2023.0.1	amazonlinux	7.6 M
-------------	--------	--------------------------	-------------	-------

nodejs-full-i18n	x86_64	1:18.18.2-1.amzn2023.0.1	amazonlinux	8.5 M
------------------	--------	--------------------------	-------------	-------

nodejs-npm	x86_64	1:9.8.1-1.18.18.2.1.amzn2023.0.1	amazonlinux	2.0 M
------------	--------	----------------------------------	-------------	-------

Transaction Summary

# THE END

ec2-user@ip-172-31-23-191:~/reactPortFolio

=====

Install 6 Packages

Total download size: 34 M

Installed size: 186 M

Downloading Packages:

(1/6):	libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm	3.3 MB/s		315 kB	00:00
(2/6):	nodejs-npm-9.8.1-1.18.18.2.1.amzn2023.0.	13 MB/s		2.0 MB	00:00
(3/6):	nodejs-full-i18n-18.18.2-1.amzn2023.0.1.	22 MB/s		8.5 MB	00:00
(4/6):	nodejs-18.18.2-1.amzn2023.0.1.x86_64.rpm	4.8 MB/s		1.8 MB	00:00
(5/6):	nodejs-docs-18.18.2-1.amzn2023.0.1.noarch	23 MB/s		7.6 MB	00:00
(6/6):	nodejs-libs-18.18.2-1.amzn2023.0.1.x86_64	15 MB/s		14 MB	00:00

-----

Total		35 MB/s		34 MB	00:00
-------	--	---------	--	-------	-------

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Running scriptlet:	nodejs-1:18.18.2-1.amzn2023.0.1.x86_64	1/1
Preparing	:	1/1
Installing	: nodejs-docs-1:18.18.2-1.amzn2023.0.1.noarch	1/6
Installing	: libbrotli-1.0.9-4.amzn2023.0.2.x86_64	2/6
Installing	: nodejs-libs-1:18.18.2-1.amzn2023.0.1.x86_64	3/6
Installing	: nodejs-npm-1:9.8.1-1.18.18.2.1.amzn2023.0.1.x86_64	4/6
Installing	: nodejs-full-i18n-1:18.18.2-1.amzn2023.0.1.x86_64	5/6
Installing	: nodejs-1:18.18.2-1.amzn2023.0.1.x86_64	6/6
Running scriptlet:	nodejs-1:18.18.2-1.amzn2023.0.1.x86_64	6/6
Verifying	: libbrotli-1.0.9-4.amzn2023.0.2.x86_64	1/6
Verifying	: nodejs-libs-1:18.18.2-1.amzn2023.0.1.x86_64	2/6
Verifying	: nodejs-npm-1:9.8.1-1.18.18.2.1.amzn2023.0.1.x86_64	3/6
Verifying	: nodejs-full-i18n-1:18.18.2-1.amzn2023.0.1.x86_64	4/6
Verifying	: nodejs-1:18.18.2-1.amzn2023.0.1.x86_64	5/6
Verifying	: nodejs-docs-1:18.18.2-1.amzn2023.0.1.noarch	6/6

Installed:

libbrotli-1.0.9-4.amzn2023.0.2.x86\_64  
nodejs-1:18.18.2-1.amzn2023.0.1.x86\_64  
nodejs-docs-1:18.18.2-1.amzn2023.0.1.noarch  
nodejs-full-i18n-1:18.18.2-1.amzn2023.0.1.x86\_64  
nodejs-libs-1:18.18.2-1.amzn2023.0.1.x86\_64  
nodejs-npm-1:9.8.1-1.18.18.2.1.amzn2023.0.1.x86\_64

Complete!

[ec2-user@ip-172-31-23-191 reactPortFolio]\$ sudo npm install -g npm@10.3.0

added 1 package in 6s

**THE END**

```
ec2-user@ip-172-31-23-191:~/reactPortFolio
added 1 package in 6s

24 packages are looking for funding
  run `npm fund` for details
[ec2-user@ip-172-31-23-191 reactPortFolio]$ npm install -force
npm WARN using --force Recommended protections disabled.

added 347 packages, and audited 348 packages in 27s

108 packages are looking for funding
  run `npm fund` for details

1 high severity vulnerability

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
npm notice
npm notice New minor version of npm available! 10.3.0 -> 10.4.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.4.0
npm notice Run npm install -g npm@10.4.0 to update!
npm notice
[ec2-user@ip-172-31-23-191 reactPortFolio]$ sudo yum install xdg-utils
Last metadata expiration check: 0:08:25 ago on Thu Jan 25 16:46:28 2024.
Dependencies resolved.
=====
Package                Arch      Version                               Repository      Size
=====
Installing:
xdg-utils               noarch    1.1.3-12.amzn2023.0.1               amazonlinux     73 k
Installing dependencies:
desktop-file-utils      x86_64    0.26-3.amzn2023.0.2               amazonlinux     72 k
emacs-filesystem        noarch    1:28.2-3.amzn2023.0.6               amazonlinux     9.5 k
=====
Transaction Summary
=====
Install 3 Packages

Total download size: 155 k
Installed size: 558 k
Is this ok [y/N]: y
Downloading Packages:
(1/3): xdg-utils-1.1.3-12.amzn2023.0.1.noarch.r 922 kB/s | 73 kB      00:00
(2/3): emacs-filesystem-28.2-3.amzn2023.0.6.noa 117 kB/s | 9.5 kB     00:00
(3/3): desktop-file-utils-0.26-3.amzn2023.0.2.x 845 kB/s | 72 kB     00:00
=====
```

THE END



ec2-user@ip-172-31-23-191:~/reactPortfolio

```
(1/3): xdg-utils-1.1.3-12.amzn2023.0.1.noarch.r 922 kB/s | 73 kB      00:00
(2/3): emacs-filesystem-28.2-3.amzn2023.0.6.noa 117 kB/s | 9.5 kB      00:00
(3/3): desktop-file-utils-0.26-3.amzn2023.0.2.x 845 kB/s | 72 kB      00:00
```

```
-----
Total                               1.0 MB/s | 155 kB      00:00
```

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

```
  Preparing      :                               1/1
  Installing     : emacs-filesystem-1:28.2-3.amzn2023.0.6.noarch 1/3
  Installing     : desktop-file-utils-0.26-3.amzn2023.0.2.x86_64 2/3
  Installing     : xdg-utils-1.1.3-12.amzn2023.0.1.noarch 3/3
  Running scriptlet: xdg-utils-1.1.3-12.amzn2023.0.1.noarch 3/3
  Verifying      : desktop-file-utils-0.26-3.amzn2023.0.2.x86_64 1/3
  Verifying      : emacs-filesystem-1:28.2-3.amzn2023.0.6.noarch 2/3
  Verifying      : xdg-utils-1.1.3-12.amzn2023.0.1.noarch 3/3
```

Installed:

```
desktop-file-utils-0.26-3.amzn2023.0.2.x86_64
emacs-filesystem-1:28.2-3.amzn2023.0.6.noarch
xdg-utils-1.1.3-12.amzn2023.0.1.noarch
```

Complete!

[ec2-user@ip-172-31-23-191 reactPortfolio]\$ npm run dev

> my-project@0.0.0 dev

> vite

VITE v5.0.10 ready in 917 ms

→ Local: <http://localhost:3210/>

→ Network: use --host to expose

→ press h + enter to show help

^C

[ec2-user@ip-172-31-23-191 reactPortfolio]\$ ^C

[ec2-user@ip-172-31-23-191 reactPortfolio]\$ npm run build

> my-project@0.0.0 build

> vite build

vite v5.0.10 building for production...

lib/ionicons/css/ionicons.min.css doesn't exist at build time, it will remain unchanged to be resolved at runtime

# THE END



ec2-user@ip-172-31-23-191:~/reactPortFolio

lib/ionicons/css/ionicons.min.css doesn't exist at build time, it will remain unchanged to be resolved at runtime

path/to/font-awesome/css/font-awesome.min.css doesn't exist at build time, it will remain unchanged to be resolved at runtime

✓ 62 modules transformed.

Unknown output options: mimeType, scriptType. Allowed options: amd, assetFileNames, banner, chunkFileNames, compact, dir, dynamicImportInCjs, entryFileNames, esModule, experimentalMinChunkSize, exports, extend, externalImportAssertions, externalImportAttributes, externalLiveBindings, file, footer, format, freeze, generatedCode, globals, hoistTransitiveImports, indent, inlineDynamicImports, interop, intro, manualChunks, minifyInternalExports, name, noConflict, outro, paths, plugins, preserveModules, preserveModulesRoot, sanitizeFileName, sourcemap, sourcemapBaseUrl, sourcemapExcludeSources, sourcemapFile, sourcemapFileNames, sourcemapIgnoreList, sourcemapPathTransform, strict, systemNullSetters, validate

dist/index.html	0.78 kB	gzip: 0.39 kB
dist/assets/index-NOEai7xf.css	13.66 kB	gzip: 3.68 kB
dist/assets/index-x5JV_tE7.js	276.66 kB	gzip: 87.56 kB

✓ built in 5.88s

[ec2-user@ip-172-31-23-191 reactPortFolio]\$ sudo npm install pm2 -g  
npm **WARN** deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See <https://v8.dev/blog/math-random> for details.

added 157 packages in 14s

13 packages are looking for funding

run `npm fund` for details

npm notice

npm notice New minor version of npm available! 10.3.0 -> 10.4.0

npm notice Changelog: <https://github.com/npm/cli/releases/tag/v10.4.0>

npm notice Run `npm install -g npm@10.4.0` to update!

npm notice

[ec2-user@ip-172-31-23-191 reactPortFolio]\$ sudo npm install pm2 -g

npm **WARN** deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See <https://v8.dev/blog/math-random> for details.

changed 157 packages in 9s

13 packages are looking for funding

run `npm fund` for details

[ec2-user@ip-172-31-23-191 reactPortFolio]\$ pm2 start npm --name "reactPortFolio" -- run dev

-----

# THE END

## Runtime Edition

PM2 is a Production Process Manager for Node.js applications with a built-in Load Balancer.

```
Start and Daemonize any application:
$ pm2 start app.js
```

```
Load Balance 4 instances of api.js:
$ pm2 start api.js -i 4
```

```
Monitor in production:
$ pm2 monitor
```

```
Make pm2 auto-boot at server restart:
$ pm2 startup
```

To go further checkout:  
<http://pm2.io/>

```
[PM2] Spawning PM2 daemon with pm2_home=/home/ec2-user/.pm2
[PM2] PM2 Successfully daemonized
[PM2] Starting /usr/local/bin/npm in fork_mode (1 instance)
[PM2] Done.
```

id	name	mode	□	status	cpu	memory
0	reactPortFolio	fork	0	online	0%	33.2mb

```
[ec2-user@ip-172-31-23-191 reactPortFolio]$ pm2 status
```

id	name	mode	□	status	cpu	memory
0	reactPortFolio	fork	0	online	0%	71.8mb

```
[ec2-user@ip-172-31-23-191 reactPortFolio]$ ^C
```

# THE END