

# Deploying to Staging Environment

Module 3 - Class 1  
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# Expectation from this class

- We will run a project locally
  - <https://github.com/rafaftahsin/ostad-devops-batch-2-app>
- We will spin up a server and run the project
- We will setup process manager to automatically start the project and stop the project using systemctl
- We will use nginx to reverse proxy

# Lets run our project locally

- Dependency node 20
- Project Codebase <https://github.com/rafaftahsin/ostad-devops-batch-2-app>
- It's just a chat app

# Lets spin up a server in AWS

- We will use ubuntu 22.04 Image
- T3.medium instance is good.
- Ostad key will be used and a wide open security group
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# Install dependencies in the server

- Connect to the server using ssh
- Install git
  - Sudo apt update
  - Sudo apt install git
- Git clone
- We will use ssh and install node as it's our dependency
  - sudo apt install nodejs
  - Sudo apt install npm
  - Ref: <https://www.digitalocean.com/community/tutorials/how-to-install-node-js-on-ubuntu-22-04>
- Let's run and access our service ....

# Let's run with with systemd

- systemctl daemon-reload
- systemctl status chat
- systemctl start chat
- systemctl status chat
- systemctl enable chat
- Ref:  
<https://www.suse.com/support/kb/doc/?id=000019672>

[Unit]

Description=Chat Service

[Service]

ExecStart=/usr/bin/node  
/home/ubuntu/ostad-devops-batch-2-  
app/index.js

[Install]

WantedBy=multi-user.target

# Port is weird - nginx to rescue

- Install nginx
  - apt install nginx
- Configure nginx to reverse proxy
  - cd /etc/nginx/sites-enabled/default
  - nginx -t
  - **systemctl restart nginx**

```
server {  
    listen 80 default_server;  
    listen [::]:80 default_server;  
  
    server_name _;  
  
    location / {  
        proxy_pass  
        http://localhost:3000;  
    }  
  
}
```

# Thanks Everyone

- Give your feedback
- Practice practice and practice
- We will see jenkins more in our next class