# React APP deployment on EC2

#### **EC2** instance

follow the instructions for creating a new instance with following parameters

• AMI: ubuntu 20.04

EC2 instance type: t2.micro tags: Name: test-machine

o pem file: RSA

• download the pem file and change the permissions

```
> sudo chmod 400 <filename>
```

## apache2

· install apache

```
> sudo apt-get update
> sudo apt-get install apache2
```

- enable htaccess
  - o add following code in /etc/apache2/sites-enabled/000-default.conf

```
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html

ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

<Directory /var/www/html>
        Options Indexes FollowSymLinks MultiViews
        AllowOverride All
        Require all granted
        </Directory>
        </VirtualHost>
```

add following in /var/www/html/.htaccess

```
RewriteEngine on
```

```
# Don't rewrite files or directories
RewriteCond %{REQUEST_FILENAME} -f [OR]
RewriteCond %{REQUEST_FILENAME} -d
RewriteRule ^ - [L]

# Rewrite everything else to index.html to allow html5 state
links
RewriteRule ^ index.html [L]
```

o restart apache

```
> sudo a2enmod rewrite
> sudo systemctl reload apache2
> sudo systemctl restart apache2
```

### mysql

install mysql

```
> sudo apt update
> sudo apt install -y mysql-server
```

• change the root password

```
> sudo mysql
> ALTER USER 'root'@'localhost' IDENTIFIED WITH
mysql_native_password BY 'root';
> FLUSH PRIVILEGES;
> exit;
```

#### React app

- execute the following steps on your machine
  - build the application

```
> yarn build
```

- archive the build directory contents
- upload the archived file to server

```
> scp -i <pem file location> build/Archived.zip ubuntu@<public
ip>:~/
```

• execute the following steps on the server (ec2) machine

```
> cd /var/www/html
> sudo rm -f *
> sudo mv ~/Archived.zip .
> sudo apt-get install unzip
> sudo unzip Archived.zip
```

# nodejs

```
> curl -fsSL https://deb.nodesource.com/setup_16.x | sudo -E bash -
> sudo apt-get update
> sudo apt install -y nodejs
> node --version
```