**Deploy a ReactJs application using EC2**

**Create an EC2 instance for a Reactjs application and deploy the application and provide the public ip for it, also enable cloud monitoring on the EC2 instance.**

**EC2:** Any business or software requires servers,raw compute power to deliver products,services to the customer. In AWS these servers are virtual, that are accessed by the EC2. EC2 instances are fast,flexible,cost effective, more secure, scalable and ready to use .

They run on top of physical host machines managed by AWS using virtual technology. The instances share the underlying physical resources is called as Multitenancy.There are different types of instances available , we can choose based on our need.

**STEPS TO CREATE AND DEPLOY REACT JS APPLICATION FROM EC2:**

1. Create an EC2 instance from the EC2 dashboard.
2. Click on launch instance.
3. Name the instance and select the AMI(os) and choose a instance family.
4. Create a keypair or Select a keypair if already exists.
5. Choose the vpc where we want to launch the EC2 and select the subnet.
6. Specify the security group rules.
7. Click on launch instance to create the instance.
8. Select the instance and and click on connect,copy the ssh command to connect from local machine.
9. Paste the command in command prompt where the keypair exists in the local machine.
10. Now , we have the accessed the EC2 linux. Use the following commands to install necessary packages in EC2.

yum update -y

yum install node. js

nvm install –lts

nvm install 16

npx create-react-app myapp

yum install git

clone the repository using the git clone command.

1. After installing all the packages, go to that folder where react exists using cd command.
2. Install the npm and start using the commands:

npm install

npm run build

npm start

1. Now copy the public IP address of the EC2 and paste it into the address bar of any search engine and add (:3000) the default port.

The react application will be shown at that location.

**To enable the monitoring:**

1. Select the EC2 instance and go to the actions where we can see the option monitor and troubleshoot.
2. Go to that section and enable the detailed monitoring.
3. Select confirm and the detailed monitoring will be enabled for the EC2.











































