

1. Create an Image and Push It to Docker Hub

- Build a Docker image:

```
docker build -t yourdockerhubusername/yourimage:tag .
```

- Log in to Docker Hub:

```
docker login
```

- Push the image:

```
docker push yourdockerhubusername/yourimage:tag
```

2. Start Containers Locally Using Other People's Images (or Your Image)

- Pull an image from Docker Hub:

```
docker pull imagename:tag
```

- Run a container from the image:

```
docker run -d -p host_port:container_port imagename:tag
```

3. Deploy to AWS Machines Using Docker/Kubernetes

- SSH into AWS instance:

```
ssh ec2-user@your-aws-ip
```

- Install Docker (if not installed):

```
sudo yum install docker -y  
sudo systemctl start docker
```

- Pull and run the image on AWS:

```
docker pull yourdockerhubusername/yourimage:tag  
docker run -d -p 80:80 yourdockerhubusername/yourimage:tag
```

- Deploy using Kubernetes (after setting up `kubect1` and `eksctl`):

```
kubect1 apply -f deployment.yaml
```