

Week 2 - Build AWS Infrastructure to host Devops Demo App

Project : A

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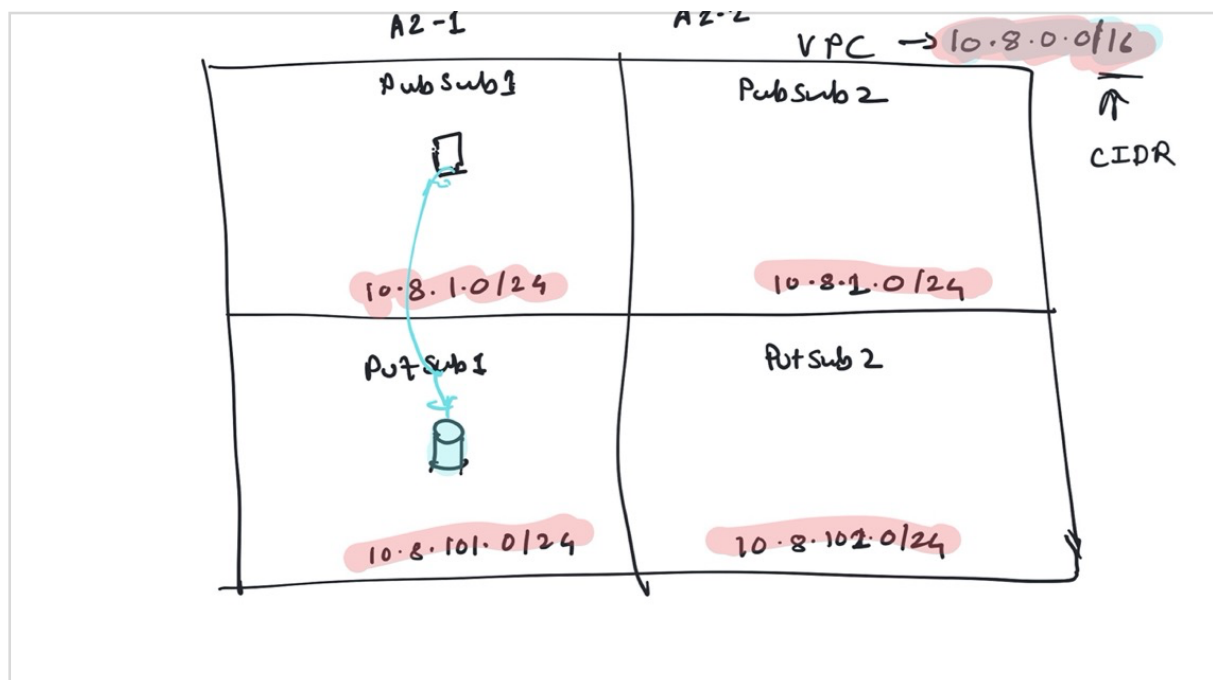
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Objective

This week you are going to build a base cloud infrastructure to deploy Devops Demo App in a secure and scalable way. This would involve setting up ,

- VPC with Security Groups, Internet Gateways etc.
- EC2 instance with Web Server
- RDS with MySQL Database



Specs:

- VPC CIDR = 10.8.0.0/16

- Availability Zones - Any Two
- Subnets = Two Public, Two Private
 - PubSub01 - 10.8.1.0/24 - AZ1
 - PubSub02 - 10.8.2.0/24 - AZ2
 - PvtSub01 - 10.8.101.0/24 - AZ1
 - PvtSub02 - 10.8.102.0/24 - AZ2
- Security Groups = web, database

Here are the steps you are suggested to follow,

- ☐ Login to AWS Account
- ☐ Create a VPC without using a Wizard
- ☐ Add 2 public subnets
- ☐ Add 2 Private Subnets
- ☐ Add Internet Gateways
- ☐ Add Routing Tables for Public Subnets (with internet gateway) and Private Subnets
- ☐ Script the installation of Apache, PHP and Application Deployment
- ☐ Launch EC2 instance in PubSub01 with user-data for provisioning of application
- ☐ Move database to RDS. Setup a single instance of MySQL with RDS in PvtSub01
- ☐ Configure security groups to allow access to application from database, as well as to expose web server outside.
- ☐ Validate everything by accessing the Web App. If its working and able to connect to the DB, ALL is well !

#wdl