AWS CERTIFICATION REGISTRATION:

<https://www.certmetrics.com/amazon/default.aspx>

Practice Exams:

https://www.awsboy.com/aws-practice-exams/practitioner/

AWS CERTIFICATION: ( for cloud practitioner )

https://media.datacumulus.com/aws-ccp/AWS%20Certified%20Cloud%20Practitioner%20Slides%20v2.7.2.pdf

EMAIL: [taoxu1224@gmail.com](mailto:taoxu1224@gmail.com)

Link: <https://signin.aws.amazon.com/>

<https://817753707482.signin.aws.amazon.com/console>

https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html

Account Name: netxwave1224

Root Password: Peipei!000000

IAM user1: netxwave\_dev Password: default

IAM user2: marvin :: Password: default :: account ID: 817753707482

1. Users with AWS Management Console access can sign-in at: <https://817753707482.signin.aws.amazon.com/console>
2. Use command line cli: aws –version to check if it’s installed or not.
3. Use AWS cloudshell. Run commands and upload/download the files. Icon next to notification bell.

**Section 1**: EC2 instance and service

Login 🡪 Services 🡪 EC2

Created first EC2 instance with quick start set up and generated

Key pair: ec2instance1 and the other file in the aws cert directory.

Connect to the instance with default **ec2user : always ‘sudo su’ first**

Install httpd server with ‘yum install httpd –y’

Start: systemctl start httpd

Public IPv4 address with new inbound rule to allow http traffic.

Instance Metadata Service **URL**: <http://169.254.169.254/latest/meta-data>

Dynamic Data Service: <http://169.254.169.254/latest/dynamic/instance-identity/document>

Lookup user data: <http://169.254.169.254/latest/user-data/> ( use for Bootstrapping )

To make a constant public IP address, make it Elastic IP address.

EC2 Instance Storage:

<https://cloud.netapp.com/blog/ebs-efs-amazons3-best-cloud-storage-system>

Still if you do not want all the data to be persistent, you can choose an Instance store AMI.

ELB & ASG – Summary

1. High Availability vs Scalability (vertical and horizontal) vs Elasticity vs Agility in the Cloud
2. Elastic Load Balancers (ELB)

• Distribute traffic across backend EC2 instances, can be Multi-AZ

• Supports health checks

• 3 types: Application LB (HTTP – L7), Network LB (TCP – L4), Classic LB (old)

1. Auto Scaling Groups (ASG)

* Implement Elasticity for your application, across multiple AZ

• Scale EC2 instances based on the demand on your system, replace unhealthy

• Integrated with the ELB

**Lambda learning URL:**

<https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/begin>

What is AWS CloudFormation?

AWS CloudFormation is a service that helps you model and set up your AWS resources so that you can spend less time managing those resources and more time focusing on your applications that run in AWS.

A template describes all your resources and their properties. When you use that template to create a CloudFormation stack, CloudFormation provisions the Auto Scaling group, load balancer, and database for you. After the stack has been successfully created, your AWS resources are up and running. You can delete the stack just as easily, which deletes all the resources in the stack. By using CloudFormation, you easily manage a collection of resources as a single unit.

## Quickly replicate your infrastructure

## Easily control and track changes to your infrastructure

# ****Amazon Elastic Beanstalk****

You simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, and automatic scaling to web application health monitoring, with ongoing fully managed patch and security updates.

Health monitoring metrics to CloudWatch

This is called Platform as a service.

AWS CodeDeploy is a fully managed deployment service that automates software deployments to compute services such as Amazon EC2, AWS Lambda, and your on-premises servers. AWS CodeDeploy makes it easier for you to rapidly release new features, helps you avoid downtime during application deployment, and handles the complexity of updating your applications.

VPC:

https://cidr.xyz/