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Highlights – Advanced AWS, Python, DevOps, Docker, Kubernetes.

Profile:

- 15+ Years IT experiences in Both Product Development and Automation.
- Extensive knowledge in CISCO Networking (WLAN, DOCSIS and L2/L3)
- Very Strong knowledge on Advanced Python Programming and worked in various Automation Projects.
- Extensive knowledge on AWS Cloud Solution Architect, Cloud Formation and Cloud Automation using Python and Boto3 libraries.
- Worked in lot of various free lancing projects for Cloud and Python Automations.
- Involved in providing corporate training in AWS Cloud, Python in various MNCs in India and some companies in abroad.
- Provides Demo project for getting more exposure for real life work.

Training Details -

- Provides corporate Training with complete Lab exercises (20% theory and 80% practical).
- Provides online training over skype/zoom for batches inside India and outside India.

Duration of Course:

Course Duration is 38-40 hours

Course Contents:

- Introduction to Cloud Computing with Amazon Web Services.
- EC2 Instances
 - What is EC2 instances and why it is needed.
 - Lab: To Launch Amazon Linux EC2 instances
 - Connect to “Amazon Linux Instance” from Linux client OS.
 - Connect to “Amazon Linux Instance” from Windows client OS.
 - Lab: To Launch Amazon Windows EC2 instances
 - Connect to “Amazon Windows Instance” from Linux client OS.
 - Connect to “Amazon Windows Instance” from Windows client OS.
- Configure Webserver on Linux/Windows Client OS (Lab).
- Elastic IP Definition and its uses, how to assign Elastic IP.
- What is EBS and how to manage it.
 - Lab:
 - Create Volume, attach, detach, partitioning and formatting it in windows and Linux OS.
 - Create snapshots and increase and decrease the volume using snapshots, moving volume from one zone to other zone and other regions.
- What is IAM User and its uses.
 - Lab
 - How to create IAM user, groups, policies and roles.
 - How we will use it with different AWS services.
- Security Group and its uses
 - Lab (How to create security group and its benefits in adding to other services)
- AWS S3 (Simple Storage Service)
 - What is S3, what are the components of S3, its functionality how it plays an important role in AWS
 - Lab
 - Create, Delete, Update Bucket
 - Static Web Hosting
 - Versioning
 - Replication

- Amazon Glacier
 - Configure Glacier, create Vault
 - Transfer file from S3 to Vault.
- Elastic Load Balancer
 - What is ELB and what are the different types of ELBs.
 - Lab
 - Configure ELB with Classic, Network and Application ELB.
- Amazon VPC (Virtual Private Cloud), VPC peering and VPN.
 - What is VPC, VPC Peering and VPN
 - Lab
 - VPC (12 steps involved)
 - To create the own VPC
 - To Create Public Subnet
 - To Create private subnet
 - To create IGW and attach to the VPC
 - Create Public Routing Table ,associate subnets and add routing rules .
 - Create Private Routing Table ,associate subnets and add routing rules .
 - Launch Windows instance in Public subnet.
 - Launch Windows instance in Private subnet.
 - Connect to Public subnet Instances.
 - Connect to private subnet instances.
 - Connect to linux instances in public subnet.
 - Connect to linux instances in private subnet
 - VPC peering
 - Configure one more VPC and make the peering
 - VPN – configure VPN and access it from public Network.
- Cloud Watch
 - What is cloud watch, why it is needed?
 - Lab (configure cloud watch and make sure alert is generating for each event)
- What is Elastic Beanstalk and its uses?
 - To Configure Elastic Beanstalk with Tomcat application.
- AMI
 - Configure AMI and create an Instance using AMI.

- What is SNS (Simple Notification Services) and its uses?
 - Lab to configure SNS
- Auto Scaling
 - What is Auto scaling and how it is needed in AWS Cloud.
 - Auto scaling Lab
 - Auto scaling with Load Balancing.
- Route53
 - What is Route53 and its benefits?
 - How it will help in launching web applications in different regions.
 - Lab – configure Route53 and make sure it is working fine. We may need domain name (from Godaddy and other free sites) for this configuration.
- CloudFront and CloudTrail
 - Need to know the basics
 - Lab
- Lambda (Python Programming)
 - What is Lambda
 - Develop scripts using Lambda
- Boto3 programming
 - Using Boto3 how we develop python scripts.
- Cloud Formation (JSON,YAML Programming)
 - Using CF we can develop cloud
- Server Migration
 - How we can move one VM from on premises to cloud.
- Devops with Cloud
 - What is DEVOPS , what are the DEVOPS stages and its components.
 - How we can use Ansible in Cloud.

