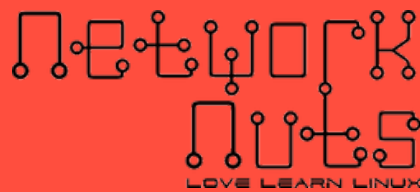




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**AWS CERTIFIED SOLUTIONS
ARCHITECT: ASSOCIATE
& TERRAFORM**

**Move from ClickOps to DevOps. Learn how to
manage infrastructure on AWS and
Automation on AWS using Terraform**

01

Introduction to AWS

AWS Fundamentals. AWS Cloud Computing Platform

02

Amazon Simple Storage Service (Amazon S3) and Amazon

Glacier Storage - Introduction | Object Storage versus Traditional Block and File Storage | Amazon Simple Storage Service (Amazon S3) Basics | Buckets | Amazon S3 Advanced Features | Amazon Glacier

03

Amazon Elastic Compute Cloud (Amazon EC2) and Amazon

Elastic Block Store (Amazon EBS) - Amazon Elastic Compute Cloud (Amazon EC2) | Amazon Elastic Block Store (Amazon EBS)

04

Amazon Virtual Private Cloud (Amazon VPC) - Amazon Virtual

Private Cloud (Amazon VPC) | Subnets | Route Tables | Internet Gateways | Dynamic Host Configuration Protocol (DHCP) Option Sets | Elastic IP Addresses (EIPs) | Elastic Network Interfaces (ENIs) | Peering | Security Groups | Network Access Control Lists (ACLs) | NAT Gateways

05

Elastic Load Balancing, Amazon CloudWatch & Auto Scaling -

Elastic Load Balancing | Amazon CloudWatch | Auto Scaling

06

AWS Identity and Access Management (IAM) - Principals |

Authentication | Authorization | Roles | MFA Authentication

07

Databases and AWS - Amazon Relational Database Service

(Amazon RDS) | Amazon Redshift | Amazon DynamoDB

08

SQS, SWF, and SNS - Amazon Simple Queue Service (Amazon

SQS) | Amazon Simple Workflow Service (Amazon SWF) | Amazon Simple Notification Service (Amazon SNS)

09

Domain Name System (DNS) and Amazon Route 53 -

Domain Name System (DNS) | Amazon Route 53 Policies

10

Security on AWS - Introduction | Shared Responsibility Model |

AWS Compliance Program | Global Infrastructure Security | AWS Account Security Features | AWS Cloud Service-Specific Security

11

AWS DevOps & BigData Support - OpsWorks | Big Data support on AWS

01

Introduction to Infrastructure as Code - What is IaC | Infrastructure As Code in Cloud | ClickOps vs DevOps

02

Introduction to Terraform - Introduction to AWS & Installing AWS CLI | Installing Terraform | Configuring AWS Provider | Creating EC2 Instance with Terraform | Understanding States | Destroying Everything

03

Dependencies & Modules - Creating AWS VPC | Dependency Graph | Controlling Dependencies with: `depends_on`, `ignore_changes` | Understanding Modules | Removing Duplication with Modules | Configuring Modules | Module Data

04

Storing & Supplying Configuration - Variables | Map & List Variables | Supplying Variable "in-line" Environment Variables | Using Variable files | Data Sources: configuring `template_file`, configuring external data | Quick Look at Consul

05

Connecting with Other Tools - Return Data with Outputs | Testing Servers with Inspec | Provisioners: `local-exec` & Ansible, `remote-exec` & Puppet, Uploading files with file provisioners

06

Scaling & Updating Infrastructure - Counting Servers | Configuring HA | Load Balancing & Simulating Conditions | Immutable Infrastructure | Making Images with Packer | AMI Upgrades | Performing Blue-Green Deployment Refreshing Infrastructure | Importing Resources

07

Collaborative Infrastructure - Version Control with GIT | Moving Templates with GIT | Protecting Secrets in GIT Repository | Storing State Files Remotely | Connecting Remote State Together | Storing Modules Remotely | Locking State Files with Terragrunt | Future of Terraform

TERRAFORM