**AWS Course Content**

**AWS Cloud**

**1. History of Cloud and Provided Companies**

**2. Basics of AWS Cloud and Free services available**

**3. To Create account in AWS Cloud**

**4. Provisioning of EC2 and Complete EC2 options– Manually and through Terraform script**

**5. Complete Overview of EC2 Dashboard**

**6. How to Create a Amazon Machine Images - AMI**

**7. Different types of AMI’s,Types of options**

**8. How to create our own AMI**

**9. Key Pairs Creation and details about ssh configuration – Through gitbash,putty**

**11. Different types of Volumes and snapshot(Backup and recovery)**

**12. Establish sshconnectivity toEC2 instances**

**13. Download pem file and convert into ppk file for putty login**

**14. Administrative activities using AWS Console (Login, Create, Stop, Start, Restart ext.....)**

**15. Creation of VPC, Subnets,IGW,NAT,VPC Peering**

**16. Network Concepts**

**17. LBR – Complete Concept**

**18.CloudFormation for create an environment**

**19.Datadog,Cloudwatch**

**20.Errors and solutions**

**21.IAM-Creation user,group,role,custom policies,preexisted policies**

**22.S3 bucket- Complete**

**23.DB(RDS,MONGO)**

**24.Route53**

**25.Realtime POC implementations as per the client requirement.**

**Linux**

**1.Introduction to Linux**

**2.Why Linux**

**3.Linux Architecture**

**4.File system hierarchy**

**5.Linux and networking Commands**

**5.su**

**6.sudo**

**7.whoami**

**8.cd**

**9.pwd**

**10.ls -latr**

**11.touch**

**12.cat**

**13.vi**

**14.mkdir**

**15.cp**

**16.mv**

**17.rmdir**

**18.rm**

**19.grep**

**20.Less**

**21.Head**

**22.tail**

**23.Sort**

**24.Clear**

**25.tree**

**26.History**

**27.wget**

**28.Tar**

**29.Rpm**

**30.Yum**

**31.User**

**32.Group**

**33.History**

**34.Du**

**35.Df**

**36.Free**

**37.Uptime**

**38.wc**

**39.os-release**

**40.Diff**

**41.Find**

**42.systemctl**

**43.tracerout**

**44.Ping**

**45.Ifconfig**

**46.Route**

**47.Hostname**

**Terrform**

[**1. Introduction to Terraform**](https://www.zekelabs.com/courses/terraform-training-in-hyderabad/#collapser1)

**What is terraform**

**Infrastructure Automation**

**Terraform Installation on Linux/Windows**

**What are the Providers, Resources**

**Terraform basic syntax**

**2. Getting started with Terraform**

**Terraform Plan, show, Apply, Destroy**

**Exploring Terraform Registry**

**Interpolation**

**Tainting and Updating Resources**

**Terraform Console and Output**

**Terraform Variables**

**Breaking Out Our Variables and Outputs**

**Lab exercises: Breaking down main.tf into variables.tf, output.tf.**

**3. Terraform Modules**

**Introduction to Modules**

**Module repositories**

**First Basic Module**

**The Module code**

**Main Terraform Code**

**Using git repositories to save modules**

**Lab exercises: Modules for Docker**

**Lab exercises: The Docker Image Module**

**Lab exercises: Modules The Container Module**

**Lab exercises: Modules - The Root Module**

**4. Terraform: Writing in a more organized way**

**Maps and Lookups**

**Terraform Workspaces**

**Breaking Out Our Variable Definitions**

**Null Resources and Local-Exec**

**Terraform Console**

**5. Terraform with AWS: lab Part 1**

**Setting up the system for AWS**

**AWS Storage: The S3 Bucket and Random ID**

**AWS Storage: The Root Module**

**AWS Compute: AMI Data, Key Pair, and the File Function**

**AWS Compute: The EC2 Instance**

**AWS Compute: User Data and Template Files**

**AWS Compute: The Root Module**

**[6. Terraform](https://www.zekelabs.com/courses/terraform-training-in-hyderabad/" \l "collapser6)**

**Remote state**

**Data Sources**

**Templates**

**Conditionals**

**Built-in Functions**

**Working with state files**

**Outputs, count and Join Function**

**[7. Terraform Integration](https://www.zekelabs.com/courses/terraform-training-in-hyderabad/" \l "collapser7)**

**Adding S3 backend**

**Integration with Git**

**Packer introduction**

**Terraform with Packer**

**Terraform with Jenkins**

**Terraform Formatting and Remote State**

**Terraform RandomID and S3 Buckets**

**[8. Terraform with AWS: Lab Part 2](https://www.zekelabs.com/courses/terraform-training-in-hyderabad/" \l "collapser8)**

**AWS Networking: VPC, IGW, and Route Tables**

**AWS Networking: Subnets, Security, and the Count Attribute**

**AWS Networking: The Root Module**

**[9. Terraform Troubleshooting and Testing](https://www.zekelabs.com/courses/terraform-training-in-hyderabad/" \l "collapser9)**

**Terraform Plan revisited**

**Debugging the script**

**Terraform Testing**

**Lab: Writing test scripts for Terraform.**

**[10. Extending Terraform](https://www.zekelabs.com/courses/terraform-training-in-hyderabad/" \l "collapser10)**

**Terraform with Azure cloud**

**Terraform with Google Cloud**

**Terraform Templates**

**Terraform plugins**

**Integrating Go Plugins**

**[11. Terraform Best Practices](https://www.zekelabs.com/courses/terraform-training-in-hyderabad/" \l "collapser11)**

**Best practices in writing terraform scripts**

**Terraform Workflow**

**Terraform projects**

**Other Hashicorp tools**

**New features of Terraform**

**Release management**

**1. What is Release Management?**

**2. What is CRQ and CAB PROCESS?**

**Projects**

**1.Interview questions and Mock tests**

**2. Resume preparation**

**3. Real time Scenarios**

**4.AWS Engineer – Daily activities**

**5. Provide Material**

**Process of Teaching**

**1. Theoreticaland Practical Knowledge**

**2. Scenario based and Interview Point of View explanation**

**3. Project Explanation**

**4. Providing Interview facing skill set by self**