Technical Guftgu

(Established under Ministry of Micro, Small and Medium Enterprises, Govt. of India)

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- ✓ Certificate provided
- ✓ Recordings Provided
- ✓ Training In Hindi/Urdu
- ✓ Expert Trainers

Terraform With Azure cloud

Introduction - The Terraform Associate certification is for Cloud Engineers specializing in operations, IT or development who know the basic concepts and skills associated with open source HashiCorp Terraform. Candidates will be best prepared for this exam if they have professional experience using Terraform in production, but performing the exam objectives in a personal demo environment may also be sufficient. The person understands which enterprise features exist and what can and cannot be done using the open source offering.

Pre-requisite

- Basic Understanding of Microsoft Azure Cloud.
- Microsoft azure account is Required for labs.

MODULE 1

1. What is Terraform-Overview
2. Terraform workflow-Write, Plan and apply.
3. Why Terraform?
4. Terraform Configuration
5. Provider's Configuration Options
6. Create resources using Terraform
7. Azure storage account creation using Terraform.
8. Create container and upload blob using Terraform.
9. How to use Terraform destroy
10. How does terraform depends_on work
11. Create azure virtual network using Terraform.
12. Define and using terraform locals.
13. Using map of values.
14. Using map of values for defining subnet.
15. Create subnet as a separate resource using terraform.
16. Create network interface using terraform.
17. Output block & upgrade provider's version.
18. Create azure public IP address and associate with NIC using terraform.
19. Azure Network security group.
20. Create NSG and associate with subnet using
21. terraform.
22. Azure virtual machine- Concept.
23. Create windows based azure VM.
24. Create azure VM using Terraform.
25. Split configuration file & input variables.
26. Create and attach data disk using terraform.
27. Terraform validate.
28. Resize VM & Add comments.
29. Virtual network peering overview.
30. Deployment of virtual network peering using terraform.

MODULE – 2

1. Create Linux Azure VM.
2. Create Linux VM in azure using
3. Terraform.
4. SSH connection to azure Linux VM using terraform.
5. Count Meta Argument.
6. For each Meta Argument.

7. For each Meta Argument with to map function.
8. Create multiple subnets using count Meta Argument.
9. Create number of subnets based on input.
10. Create multiple subnets using for each Meta Argument.
11. Associate NSG with subnets created based on Input Value.
12. Create NIC and Public IP based on Input Value.
13. Create VM based on Input Value.
14. High Availability through Availability Set.
15. Implementation of Availability Set.
16. Create Availability Set using Terraform.
17. High Availability through Availability zone.
18. Create azure resources in Availability zones usingTerraform.
19. Data block.
20. Azure Key vault.
21. Configure Azure key Vault as Data Source using Terraform Data Blocks.
22. Create azure key vault using Terraform.
23. Azure Bastion
24. Create Azure Bastion Host using Terraform.
25. Virtual Machine extensions.
26. Create custom script extension using terraform.
27. Azure service endpoint
28. Create network rule for storage account using Terraform.
29. Create service endpoint for storage service using terraform.

MODULE 3

1. Azure app services
2. Azure app service plans
3. Create app service plan & app service using terraform
4. App service deployment slot
5. Git hub integration with app service for manual deployment
6. Git hub integration with app service for manual deployment using terraform
7. Creation of Deployment slot using terraform.
8. Deploy app in staging slot and execute swap using terraform
9. Enable application insights with app service using terraform
10. SQL database and SQL server deployment with different purchase metal
11. Create SQL server & database using terraform
12. Create Azure SQL server firewall rule using terraform
13. Create diagnostic settings using terraform
14. Create service endpoint & Virtual Network Rule by using Terraform import.
15. Enable service end point for Azure SQL server

MODULE 4

1. Azure load Balancer
2. Azure load Balancer- health probe & load Balancing rule.
3. Create Environment for Azure load Balancer using Terraform
4. Create Azure load Balancer using Terraform
5. Add targets in backend pool & create load balancing rule using Terraform.
6. Azure Public DNS zone
7. Create Azure Public DNS zone using terraform
8. Virtual Machine Scale set- concept
9. Create Virtual Machine Scale set using Terraform

10. Azure Traffic Manager Routing Methods
11. Traffic Manager Deployment
12. Application Gateway Deployment.

KEY HIGHLIGHTS OF THIS TRAINING PROGRAM:

- ✓ *Entire training programme is in Hindi Language for Better understanding.*
- ✓ *Special focus on Non technical and Fresher candidates.*
- ✓ *Resume Preparation for Fresher's and Experienced Both.*
- ✓ *Provides Recording of each live session which you can access from anywhere anytime for One year.*
- ✓ *Interview Cracking tips during live sessions.*
- ✓ *Provide complete notes and e-books for preparation.*

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