

AWS & DevOps Training in తెలుగు

Topics:

1. EC2:
 - a. Introduction & basics
 - b. How to launch EC2 Linux and Windows
 - c. EC2 instance connect
 - d. EC2 with Session Manager
 - e. EC2 with IAM roles
 - f. Instance Types & changing server sizes
 - g. Pricing plans – OnDemand, Spot, Reserved, etc
 - h. AMIs
 - i. Elastic IPs
 - j. Elastic Network Interfaces
 - k. Status Checks
 - l. Meta Data
 - m. Termination Protection
 - n. User Data
 - o. Placement Groups
 - p. Mapping DNS
 - q. Security Groups
 - r. Key Pairs
2. EBS:
 - a. Introduction & Basics
 - b. Volumes
 - c. Snapshots
 - d. Types
 - e. Size increments
 - f. Volume attachments
 - g. Encryption
3. EC2 Instance Store:
 - a. Introduction & Basics
 - b. Usage
4. Lambda:
 - a. Introduction & basics
 - b. Function creation
 - c. Layers
 - d. Versions
 - e. Alias
 - f. Handler
 - g. Runtimes
 - h. Permissions
 - i. Environment Variables
 - j. Monitoring & Lambda Logs
 - k. XRay logs
 - l. Inside VPC

- m. Triggers
- 5. Elastic BeanStalk:
 - a. Introduction & basics
 - b. Applications
 - c. Environments
 - d. Deployments
- 6. S3:
 - a. Introduction & Basics
 - b. Buckets
 - c. Objects
 - d. Static Website Hosting
 - e. Versioning
 - f. Permissions
 - i. Bucket Policy
 - ii. ACLs
 - g. Transfer Acceleration
 - h. Multipart upload
 - i. Requester Pays
 - j. Pre-signed URL
 - k. CORS
 - l. Encryption
 - m. Storage Classes
 - n. Life Cycle Rules
 - o. S3 select and Glacier Select
 - p. Event Notifications
 - q. Access logs
 - r. Object logs
 - s. DNS mapping
- 7. EFS:
 - a. Introduction & Basics
 - b. File System
 - c. Integrating with EC2s
 - d. Backups & Restore
- 8. FSx:
 - a. Introduction & Basics
 - b. Types of FSx
- 9. AWS Backup:
 - a. Introduction & Basics
 - b. Vaults
 - c. Backup plans
 - d. Backup Policies
- 10. RDS:
 - a. Introduction & Basics
 - b. Multi-AZ
 - c. Read Replicas
 - d. Snapshots
 - e. Automated Backups – PITR
 - f. Parameter Groups
 - g. Options Groups
 - h. RDS Proxy

- i. RDS Custom
 - j. RDS Security
- 11. Aurora:
 - a. Introduction & Basics
 - b. Multi-AZ
 - c. Read Replicas
 - d. Cluster Storage Architecture
 - e. Snapshots
 - f. PITR
 - g. Global Databases
 - h. Aurora Serverless
 - i. Clone
 - j. Backtrack
- 12. ElastiCache:
 - a. Introduction
 - b. Redis
- 13. Document DB:
 - a. Introduction
- 14. Dynamo DB:
 - a. Introduction & Basics
 - b. Tables
 - c. Capacity
 - d. Partition Key & Sort Key
 - e. Query
 - f. Scan
 - g. TTL
 - h. DAX
- 15. Application Migration Service:
 - a. SMS
 - b. Introduction & Basics
 - c. VM migration simulation
- 16. Database Migration Service:
 - a. Introduction & Basics
 - b. Schema Conversion Tool
 - c. DB migration from EC2 to RDS - Simulation
- 17. Snowball:
 - a. Introduction & Basics
- 18. Snowball Edge:
 - a. Introduction & Basics
- 19. Snowmobile
 - a. Introduction & Basics
- 20. Snowcone
 - a. Introduction & Basics
- 21. VPC:
 - a. Introduction & Basics
 - b. Subnets
 - c. CIDRs
 - d. Route Tables
 - e. Internet Gateway
 - f. Endpoints

- g. NAT gateways
 - h. VPC Peering
 - i. NACLs
 - j. SGs
22. VPC-VPN:
- a. Introduction & Basics
 - b. Software VPN
 - c. Hardware VPN – Site2Site
 - d. Simulations
 - e. Customer Gateway
 - f. Virtual Private Gateway
23. Transit Gateway:
- a. Introduction & Basics
 - b. Peering using TGW
24. Cloud Front:
- a. Introduction & Basics
 - b. Distribution
 - c. TTL
 - d. Invalidation
 - e. Custom domain mapping
 - f. Origin
 - g. Edge Locations
 - h. Regional Edge Caches
25. Route 53:
- a. Introduction & Basics
 - b. Private & Public Hosted Zones
 - c. Domain Creation
 - d. Domain usage
 - e. Health Checks
 - f. Traffic Policies
26. API Gateway:
- a. Introduction & Basics
 - b. Routes
 - c. Methods
 - d. Deployments
 - e. Stages
 - f. Lambda integration
27. Direct Connect:
- a. Introduction & Basics
28. Global Accelerator:
- a. Introduction
29. Cloud Shell:
- a. Introduction & Basics
 - b. Usage
30. AWS CLI:
- a. Introduction & Basics
 - b. Usage
31. X-Ray:
- a. Introduction & Basics
 - b. Lambda integration

- 32. Application Composer:
 - a. Introduction & Basics
 - b. Usage
- 33. AWS Support:
 - a. Introduction
 - b. Types
- 34. Organizations:
 - a. Introduction & Basics
 - b. Creation
 - c. Adding and Removing accounts
 - d. Service Control Policies
 - e. Organizational Units
- 35. Cloud Watch:
 - a. Introduction & Basics
 - b. Alarms
 - c. Metrics
 - d. Logs
 - e. Dashboards
- 36. Auto Scaling:
 - a. Introduction & Basics
 - b. Autoscaling groups
 - c. Launch Templates
- 37. Load Balancers:
 - a. Introduction & Basics
 - b. Target Groups
 - c. ALB
 - d. NLB
 - e. DNS mapping
 - f. HTTPS
- 38. Cloud Formation:
 - a. Introduction & Basics
 - b. Stacks
 - c. Parameters
 - d. Outputs
 - e. Resources
 - f. Intrinsic Functions
 - g. Export
 - h. YAML script development
 - i. Deletion Policy
- 39. Config:
 - a. Introduction & Basics
 - b. Resources
 - c. Compliances
 - d. Inventory
- 40. Service Catalog:
 - a. Introduction
- 41. Systems Manager:
 - a. Introduction & Basics
 - b. Fleet Manager
 - c. Session Manager

- d. Run Command
 - e. Documents
 - f. Inventory
 - g. Compliance
 - h. Patches
42. SSM Parameter Store:
- a. Introduction & Basics
 - b. Parameters usage
43. Trusted Advisor:
- a. Introduction & Basics
 - b. Sections
44. Control Tower:
- a. Introduction & Basics
 - b. Landing Zones
45. Compute Optimizer:
- a. Introduction & Basics
 - b. Checking optimization suggestions
46. Cloud Trail:
- a. Introduction & Basics
 - b. Event history
 - c. Trails
47. Elastic Transcoder:
- a. Introduction
48. Sage Maker
- a. Introduction
49. Comprehend:
- a. Introduction & Basics
 - b. Usage
50. Comprehend Medical:
- a. Introduction & Basics
 - b. Usage
51. Polly:
- a. Introduction & Basics
 - b. Usage
52. Rekognition:
- a. Introduction & Basics
 - b. Usage
53. Textract:
- a. Introduction & Basics
 - b. Usage
54. Transcribe:
- a. Introduction & Basics
 - b. Usage
55. Translate:
- a. Introduction & Basics
 - b. Usage
56. Lex:
- a. Introduction & Basics
 - b. Usage
57. Amazon Q:

- a. Introduction & Basics
 - b. Usage
- 58. Athena:
 - a. Introduction & Basics
 - b. Query Editor
 - c. Usage
- 59. Redshift:
 - a. Introduction
- 60. QuickSight:
 - a. Introduction & Basics
- 61. Resource Access Manager:
 - a. Introduction & Basics
 - b. Usage
- 62. Cognito:
 - a. Introduction & Basics
 - b. User Pools
 - c. Default UI
 - d. Usage
- 63. Secrets Manager:
 - a. Introduction & Basics
 - b. Usage
- 64. Guard Duty:
 - a. Introduction
- 65. Inspector:
 - a. Introduction & Basics
 - b. With EC2
 - c. Usage
- 66. IAM Identity Center (SSO):
 - a. Introduction & Basics
 - b. Usage
- 67. Certification Manager:
 - a. Introduction & Basics
 - b. Certificates
 - c. SSL / TLS
 - d. Integration with other services
- 68. KMS:
 - a. Introduction & Basics
 - b. Keys
 - c. Usage
- 69. CloudHSM:
 - a. Introduction
- 70. WAF:
 - a. Introduction & Basics
 - b. ACLs
 - c. Rules
 - d. Usage
- 71. Shield:
 - a. Introduction & Basics
- 72. Security Hub:
 - a. Introduction & Basics

- b. Usage
- 73. IAM:
 - a. Introduction & Basics
 - b. Users
 - c. Groups
 - d. Policies
 - e. Roles
 - f. Credentials Report
- 74. IAM Access Analyzer
 - a. Introduction & Basics
- 75. Billing & Cost Management
- 76. Cost Explorer
- 77. Budgets
- 78. Marketplace Subscriptions
- 79. Step functions:
 - a. Introduction & Basics
 - b. ASL
 - c. Using with lambdas
 - d. Usage
- 80. Event Bridge:
 - a. Introduction & Basics
 - b. Rules
 - c. Event Triggers
- 81. SNS:
 - a. Introduction & Basics
 - b. Topics
 - c. Notifications
- 82. SQS:
 - a. Introduction & Basics
 - b. Queues
- 83. SES:
 - a. Introduction & Basics
 - b. Email Identities

DevOps Services:

- 84. Git:
 - a. Introduction & Basics
 - b. Add
 - c. Commit
 - d. Push
 - e. Clone
 - f. Branch
 - g. Merge
 - h. Log
 - i. Graph
 - j. Pull
 - k. Fetch
 - l. Pull Requests
 - m. Fork
 - n. Ignore

- o. README
 - p. Rebase
 - q. Revert
 - r. Reset
 - s. Workflow / Actions
 - t. Conflicts
85. AWS Code Commit (AWS Git):
- a. Above all
86. Code Build:
- a. Introduction & Basics
 - b. Build Projects
 - c. Logs
 - d. Permissions
 - e. BuildSpec files
 - f. Angular / Java / Python builds
87. Code Deploy:
- a. Introduction & Basics
 - b. Deployments
 - c. Applications
 - d. AppSpec file
 - e. Deploying to EC2
88. Code Pipeline:
- a. Introduction & Basics
 - b. Pipelines
 - c. Source stage
 - d. Build Stage
 - e. Deploy Stage
 - f. Manual Approval Stage
 - g. Integrating Source, Build, Deploy stages
 - h. Cloud Formation with Codepipeline
89. Docker:
- a. Introduction & Basics
 - b. Images
 - c. Dockerfile
 - d. Containers
 - e. Pushing to DockerHub
 - f. Pushing to ECR
90. ECR:
- a. Introduction & Basics
 - b. Registries and Repositories
 - c. Usage
91. ECS:
- a. Introduction & Basics
 - b. Clusters
 - c. Tasks
 - d. Services
 - e. Automated Deployments
92. Kubernetes:
- a. Introduction & Basics
 - b. Clusters

- c. Architecture
 - d. YAML scripts
 - e. Pods
 - f. Replication Controllers
 - g. ReplicaSets
 - h. Services
 - i. Deployments
 - j. Cluster IP / Node IP
93. EKS:
- a. Introduction & Basics
 - b. Deploying on AWS
 - c. Above all +
 - d. Load Balancing using AWS NLB / CLB
94. Terraform:
- a. Introduction & Basics
 - b. Reference
 - c. HCL
 - d. Init
 - e. Plan
 - f. Apply
 - g. Destroy
 - h. Show
 - i. Blocks
 - j. Modules
95. Jenkins:
- a. Introduction & Basics
 - b. FreeStyle Projects
 - c. Pipeline Projects
 - d. Secrets
 - e. Plugins
 - f. User Management
 - g. Git integration
 - h. Deployments
96. Ansible:
- a. Introduction & Basics
 - b. YAML scripts
 - c. Configuring EC2s using ansible