AWSSolutionsArchitectAssociateTraining

1. ***IntroductiontoCloudComputing***
   a. WhatisCloudComputing
   b. BenefitsofCloudComputing
   c. CloudServiceOfferings-IaaSSaaS&PaaS
   d. Clouddeploymentmodels
   e. WhoshouldlearnAWS
   f. Opportunities&JobRolesinthecloud

2. ***Networking-VPC***
   a. VPC(VirtualPrivateCloud)
   b. Private&publicsubnets
   c. CalculatingCIDRBlocksInternetGateways
   d. RouteTables
   e. ElasticIPs&publicIPs
   f. SecuringVPC(Securitygroups&NACLs)
   g. VPCPeeringConnection
   h. NATGateway
   i. VPCEndpoints

3. ***EC2(ElasticComputeCloud)***
   a. EC2Instances
   b. AmazonMachineImages(AMI)
   c. InstanceResizing
   d. InstanceTypesGenerations&Sizes
   e. On-DemandInstances

4. ***EBS(ElasticBlockStore)***
   a. VolumeTypes
   b. CreatingSnapshots(Backups)
   c. RestoringfromSnapshots
   d. ResizingVolumes
   e. MigratingVolumestoAnotherRegion

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5. *EFS*
   a. Introductionto EFS
   b. CreatingEFSfilesystem
   c. MountingtomultipleEC2instances

6. *ElasticLoadBalancer(ELB)*
   a. ApplicationLoadBalancer
   b. ClassicLoadBalancer
   c. NetworkLoadBalancer
   d. GatewayLoadBalancer

7. *AutoScaling*
   a. AutoScalingGroup
   b. LaunchConfiguration
   c. StepSimpleScaling

8. *AutoScalingwithELB*
   a. ApplicationELB
   b. Auto scaling
   c. DynamicRegistration

9. *IAM(Identity&AccessManagement)*
   a. User&Servicemanagement
   b. ManagingPasswordsPolicies
   c. KeyManagementService
   d. ManagingRoles
   e. ActivatingMulti-FactorAuthentication
   f. IdentityFederation
   g. ManagingProgrammaticAccess

10. *KMS(KeyManagementService)*
    a. Whatis KMS
    b. CreatingKMSkey
    c. ManagingKMSadminandusagepermissions

11. *Databases*
   a.   RDS(OracleMySQLMariaDB)
   b.   Redshift for DataWarehousing
   c.   NoSQL-DynamoDB
   d.   TakingAutomatedBackups
   e.   MigratingDBAcrossRegions
   f.   DynamoDB Basics
   g.   DynamoDB Creation and working

12. *DMS*
   a.   LocaDatabaseConfig
   b.   RDSConfig
   c.   EndpointURLS
   d.   MigrationTask
   e.   MigratingDBAcrossRegions

13. *Route53(DNS&Domain Registration)*
   a.   DNS Flow
   b.   FundamentalsofRoute53
   c.   RegisteringADomain
   d.   Route53resolvers
   e.   CreatingHostedZones
   f.   RecordSets(A,AAAA,CNAME)

14. *CloudFront(ContentDeliveryNetwork)*
   a.   CDN
   b.   Giorestriction
   c.   Configuration
   d.   Routingpolicy(Simpleweightedfailovergeolocation&latencybased)

15. *S3-SimpleStorageServices*
   a.   StandardStorage
   b.   Standard-InfrequentlyAccessed
   c.   ReducedRedundancy
   d.   EncryptingObjects
   e.   Uploadingdeleting&downloadingobjects
   f.   Versioning

g. Lifecyclemanagement
h. S3Logging
i. StaticWebsiteHosting
j. Cross-regionReplication
k. ConfiguringEvents
l. Glacier,Snowball

16. Elastic Beanstalk
a. Elastic Beanstalk Creation
b. Uploading Templates
c. View History

17. Monitoring CloudWatch
a. CloudTrail
b. Basic&DetailedMonitoring
c. Creatingcustomdashboards&widgets
d. Settingupalerts
e. Configuringevents&rules
f. EC2actions

18. SimpleServices
a. SimpleQueueService(SQS)
b. SimpleEmailService(SES)
c. SimpleNotificationService(SNS)

19. CloudFormation
a. StacksCreation
b. Stack Modifications

20. LambdaServices
a. EC2Launching
b. StartandStopInstances
c. S3triggering

21. Simple Services
a. SNS
b. SES
c. SQS

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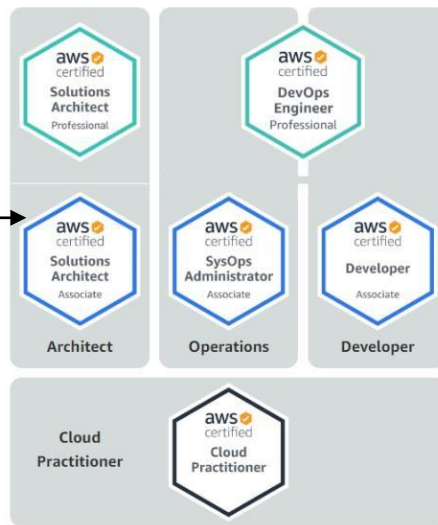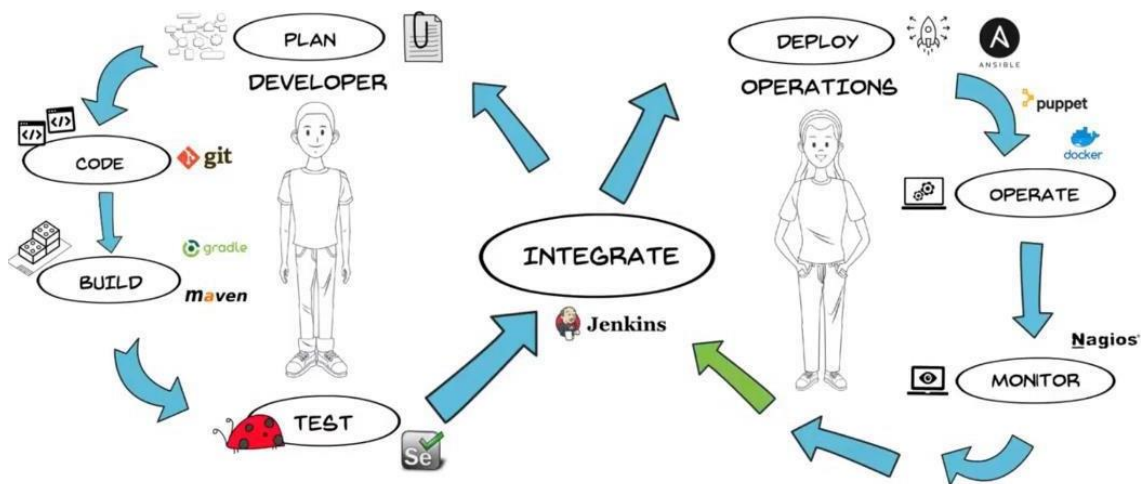# AWSSolutionsArchitectAssociateTraining

SNO	Topic	Tool	Concepts	Duration
				Inhours
1	**SDLC**		WaterfallModel	1
			AgileModel	
2	**SourceCodeManagement**	**GIT**	AboutVersionControleSystem	5
			CentralVCSvsDistributedVCS	
			AboutGitHub	
			RepositoryCreation	
			Git Lifecycle	
			gitcommands	
			gitundooperations-gitrevert,resetandcheckout	
			gittags,clean,cherry-pick	
			gitmerge,rebase	
			gitmergeconflict	
			gitPullReuest	
			gitbranchingstratagies	
				7
3	**containerizationTool**	**Docker**	DockerArchitecture	
			DockerLifecycle	
			DockerRegistry	
			dockercommands	
			dockervolumesvs bindmount	
			dockerfile	
			dockerfile instruction	
			dockercompose	
			dockerNetwork	
			dockerswarms cluster	
4	**OrchestrationTool**	**Kubernetes**		6
			K8SArchitecture	
			Kubadm1.20--baremetal/Nativeinstallation	
			kubernetesclusterconfiguration	
			Master-slaveconfig	
			kubernetesDeploymentfiles	
			Pod screation	
			service creation	
			Kubernetes Deployment Stategys	

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			(clusterip/NodePort/LoadBalancer)	
			IngressRulesConfiguration	
			K8S-DashboardConfiguration	
			Custom Image Deployment using kubernetes DashBoard	
		EKS	On AWS Environment	
5	ConfigmanagementTool	Ansible		6
			AnsibleArchitecture	
			AnsibleInstallation	
			Adhoccommands	
			configureMaster&Remote	
			Playbooks	
			packageinstallation&uninstall	
			COPYModule	
			FETCHModule	
			FileModule	
			TemplateModule.j2	
			AnsibleTags	
			AnsibleRoles	
				7
6	CITool	Jenkins		
			Jenkinsconfig	
			JenkinsJobs	
			JenkinsPlugins	
			Master-Slaveconfigin Jenkins	
			ChainJobsCreations	
			JenkinsPipelines	
			Jenkins-GitHubIntegration	
			Jenkins-GitHub-MavenIntegration	
			Jenkins-GITHUB-Maven-EC2Integration	
			Jenkins-GITHUB-Docker,AnsibleIntegration	
			scriptedpipeline-Groovydeclarativescripting	
7	Build Tool	Maven		1
			AboutMaven	
			AboutPOM.xml	
			About Dependencies	
			AboutArtifacts	
			MavenPhases	

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8	MonitoringTool	Nagios	2
		NagiosInstallation	
		Configuration	
		ServerIntegration	
9	Sonar Qube	SonarQube Installation	
		Executing Applications	
10.	Terraform	Basics of Terraform	
		End To End Application execution	
		Architecture Intialisation	