

JAY IT SOLUTIONS

Amazon Web Services Training Course

Trainer Name		Course Duration	
Course Timings		Training Mode	
Facilities			
Materials		Course Fees	

Notes:

Cloud Fundamentals and AWS Basics		
Module	Content	Sub-topics
Module 1	Cloud Computing	Attributes of Cloud
		Service Models(IAAS, PAAS, SAAS)
		Deployment Models(Private, Public and Hybrid)
Module 2	Introduction to AWS	Background of AWS
		Differences between on premise and AWS
		Overview of AWS-Global Footprint
		Regions and Availability Zones
		IAM
Module 3	Accessing AWS	AWS Free Tier
		AWS Monthly Webinar
		Account Creation and tips

Amazon Web Services		
Compute		
Module 4	Elastic Cloud Compute(EC2)	Instance Type and components.
		Instances
		Termination, Shutdown and restart.
		Instance Store
		Amazon Machine Image(AMI)
		Key pair
		Security Group
		Elastic IP

#31, Shiva Apartments, SAP Street, Behind Mythrivanam, Ameerpet,
Hyderabad, Telangana – 500 038

Email: info@jayitsolutions.com Phone: 9949 400 877, 9949 86 88 77

<https://www.jayitsolutions.com>

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	Lab	Launch Windows Instance
		Launch Linux Instance
		Stop, start, restart and terminate the instance
		Termination protection
Module 5	Elastic Block Store	Concepts of Volume
		Concepts of Snapshot
	Lab	Create EBS Volume
		Create Snapshot
		Copy to new AZ or region
	Create new volume from snapshot	
Module 6	Elastic Load Balancing	Concepts of ELB
	Auto Scaling	Auto Scaling Features and how it work
	Lab	Create ELB with 2 instances in different Azs
		Configure Auto Scaling and testing
Storage		
Module 7	Simple storage service(S3)	Buckets
		Objects
		Versioning
		Logging
		Bucket Policy
		Life Cycle
	Lab	Create Bucket and upload objects
		Bucket Policy
		Enable Cross-region replication
	Glacier	Concepts of glacier
Elastic File System(EFS)	Concepts of EFS	
Security group and NACL		
Module 8	Security Group	Introduction and configuration
	NACL	Concepts and Configuration
	Lab	Configuring Security Groups and NACL
Virtual Private Cloud		
Module 9	Virtual Private Cloud	Default VPC
		Subnets
		Route Table
		Internet Gateway
		NAT Gateway
		VPC Peering
		VPN

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		Endpoints
		Direct Connect

	Lab	VPC Configuration
Module 10	Route 53	DNS Records
		Route 53 concepts
Module 11	Cloud Front	CDN Concepts
		How to use Cloud Front

Database

Module 12	RDS	Engine flavors discussion
	NoSQL	Dynamo DB

Management Tool

Module 13	Cloud Watch	Concepts and Metrics
	Cloudtrail	Concepts and usage
	AWS CLI	Demo on CLI
	Cloud Formation	Template Creation, Template Usages with different languages (NodeJS)

Security

Module 14	Identity and Access Management	IAM Features(Users, groups, roles, policies)
		IAM Best Practices
	Lab	Create Users, Groups, permissions
		Create Roles

Messaging

Module 15	Simple Notification Service	SNS features(Publishers, subscribers)
	Simple Email Service	SES Features

AWS Do's & Don'ts & Troubleshooting

Module 17	General Troubleshooting Info	Monitoring Services with monitoring tools
	How to react if any incident happens	How to utilize the Customer Support of AWS and sending the mails to Support team
	Backup Plans Volumes & AMI's and restore	Tips for High Utilization with low Cost