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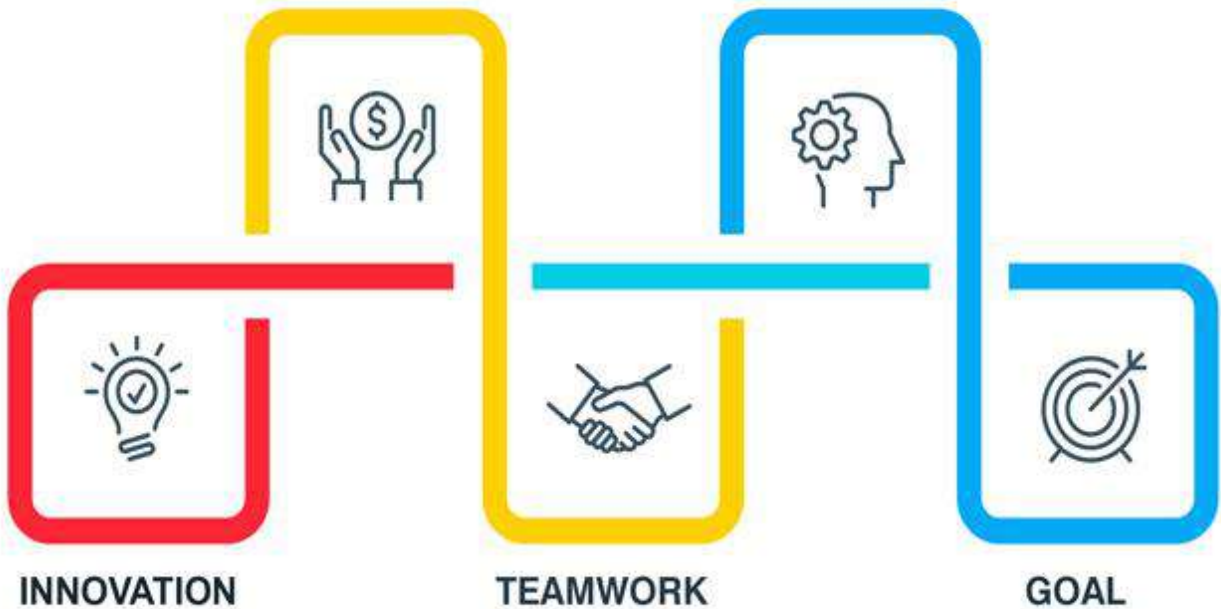
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Team Work and Strategy

Good Team , Best Results

CAREER

STRATEGY

INNOVATION

TEAMWORK

GOAL

1 1 to 1 TRAINING

2 CERTIFY TRAINERS

3 LIVE PROJECT

4 INTERVIEW PREPARATION

5 CERTIFICATION GURANTEE

6 PLACEMENT GURANTEE

AWS CLOUD TRAINING COURSE MODULE
AWS Certified Solutions Architect - Associate
LIVE Project Training

Cloud computing provides a simple way to access servers, storage, databases, and a broad set of application services over the Internet. Cloud computing providers such as AWS own and maintain the network connected hardware required for these application services, while you provision and use what you need using a web application.

Course Contents

Module:-1 Introduction To Cloud Computing

- What is Cloud Computing?
- Essential characteristics of Cloud Computing
- Why Cloud Computing?
- Advantages of Cloud Computing

Module:-2 Cloud Computing Model

- Service Models (SaaS, PaaS, IaaS)
- Difference between Service Models
- Deployment Models
- Overview of Public Cloud
- Overview of Private Cloud
- Overview of Hybrid Cloud

- Overview of Community Cloud

Module:-3 Cloud Computing Risks & Concerns

- Cloud Security and Privacy
- Pricing model of Cloud
- Service Quality (SLA)
- Cloud Computing Portability & Interoperability
- Transition to the Cloud
- Legal and Compliance

Module:-4 Virtualization

- Introduction to Virtualization
- Virtualization Defined
- Types of Virtualization
- Hypervisor technology
- Virtualization terminologies
- Pros of Virtualization
- Virtualization Providers

Module:-5 Introduction To AWS

- Elastic Computing
- AWS Global Infrastructure (Regions, Availability Zones & Edge Locations) Signing Up for AWS
- AWS Free Tier

Module:-6 Amazon Elastic Compute Cloud (Ec2)

- Creating Key pairs

- Launching your first AWS instance
- Setting up Security
- Security groups
- Provisioning Linux and Windows instances with required security

Module:-7 Amazon EC2 Pricing

- On-demand Instance Pricing
- Reserved Instance Pricing
- Spot Instance Pricing

Module:-8 Amazon Machine Image (AMI)

- Introduction to AMI
- Choosing the AMI
- Copy and Share AMI across Regions
- Creating a new AMI from existing Instance
- Deploying a new Instance from the created AMI

Module:-9 IP Addressing Scheme

- Introduction to TCP/IP Protocols
- IPv4 and Ipv6 Addressing
- IP Address Classification
- Communication types
- Public & Private IP Addresses
- Elastic IPs
- Network and Host Portions
- Introduction to NAT

Module:-10 Elastic Load Balancer

- Introduction to Load Balancing
- Creating an Elastic Load Balancer
- Create an ELB with Web Servers across Availability Zones

Module:-11 Elastic Block Storage (EBS)

- Introduction to Elastic Block Storage
- EBS Volume types
- Introduction to Snapshots
- Provisioning and Terminating EBS volumes
- Creating and Deleting Snapshots
- Creating volumes from Snapshots
- Attach & Detach EBS volume to Windows & Linux Instances
- Volume-Snapshot-Volume Creation process

Module:-12 Simple Notification Service (SNS)

- Introduction to SNS
- SNS Protocols
- Creating a SNS topic

Module:-13 Amazon Virtual Private Cloud (VPC)

- Introduction to VPC
- VPC Components
- VPC Security and Inbound & Outbound ACLs
- Creating VPC manually and using VPC wizard

Module:-14 Relational Database Service (RDS)

- Introduction to RDS
- RDS Database types
- Creating Databases
- Configuring backups
- Connecting to the database
- Create a RDS instance and install two-tier application

Module:-15 Route53

- Introduction to Route53
- S3 Object Versioning and Lifecycle policies
- Host a sample website on S3 Bucket

Module:-16 CloudWatch

- Introduction to CloudWatch
- Creating a CloudWatch dashboard
- Creating CloudWatch Alarms
- Monitoring other AWS services
- Configuring Notifications
- Integrating CloudWatch with Auto-scaling

Module:-17 Auto-Scaling

- Introduction to Bootstrapping
- What is Launch Configuration?
- What is Auto-scaling group?
- Setting up an Auto-scaled, Load-balanced Amazon EC2 application
- Setting up Bootstrapping with a PHP example

- Tests Scaling Up & Down and Hosting application using Auto-scaling and Load balancing

Module:-18 Identify Access Management (IAM)

- Creating Users, Groups and Roles
- Creating User and Group policies
- Restricting access using policies
- Password policy
- Command Line Management
- Activating MFA for a user

Module:-19 S3 (Simple Storage Service)

- Introduction to S3
- S3 Durability and Redundancy
- Buckets & Objects
- S3 Static Website Hosting
- RRS (Reduced Redundancy Storage)
- S3 Permissions and Bucket policies

Module:-20 Cloudfront

- Introduction to CDN network and CloudFront
- Creating a CloudFront Distribution
- Hosting a website of CloudFront Distribution
- Implementing Restrictions
- Configuring Origins & Behaviours

Module:-21 Elastic Beanstalk

- Introduction to Elastic Beanstalk

- Elastic Beanstalk application options

- Application Versioning

- Deploying a sample application

- Deploying a PHP application using EC2 and RDS

Module:-22 Dynamo DB

- Introduction to NoSQL databases

- Creating Dynamo DB tables

- Adding data manually

- Configuring Alarms

- RCU and WCU

Module:-23 Cloud Formation

- What is Cloud Formation?

- Creating & Deleting Stack

- Provisioning application resources with Cloud Formation

- Creating template from existing resources

Module:-24 Glacier Storage

- Introduction to Glacier

- Creating a Vault

- Upload & Download to Vault

- Vault Lock policies

Module:-25 Trusted Advisor

- Introduction to Trusted Advisor

- Cost Optimisation

- Performance

- Security

- Fault-tolerance

Module:-26 Project & AWS Case Study

- Architecting Single-tier application across regions using Route53
- Architecting two-tier and three-tier applications on AWS
- Best practices for AWS
- Cost control strategies

Module:-27 AWS Certification

- Overview of AWS certifications
- How to book a slot for AWS certification?
- Certification examination question patterns
- Live demo with sample questions and how to answer the questions

Module:-28 AWS Troubleshooting

- Troubleshooting using CloudWatch
- Troubleshooting using ELB
- Using CloudTrail for Auditing

Clients Feedback and Customer Satisfaction

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Client's Feedback

16-LPA

★★★★★

I found the right guide in form of Rexton IT Solutions to attain my goal. They allow me to scale my capability and it feels great to know that you are ready to solve all the IT solutions with ease. I

Gaurav
Administrator

Client's Feedback

11-LPA

★★★★★

I was looking for a course that can pump my career and help me in getting the highest position in a company on the basis of skills I possess. I came across Rexton IT Solutions and immediately joined it. The positive vibes I got from the trainers motivated me to achieve something in my professional life.

Amit
Network Administrator

9-LPA

★★★★★

Rexton IT Solutions offer the best training, paper modules and testing. This helped me get a job in a well-recognized organization. I appreciate and thank them to make everything simple for me.

Pooja
Network Engineer

Client's Feedback

11.5-LPA

★★★★★

I am happy to get the opportunity to talk about the Rexton IT Solutions. My honest views regarding the training center are that no one offers such kind of environment. The trainers are well-versed with the courses and update the students with latest technologies time-to-time.

Mirdul
System Admin

Client's Feedback

Contact us!

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Directions

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Thank You