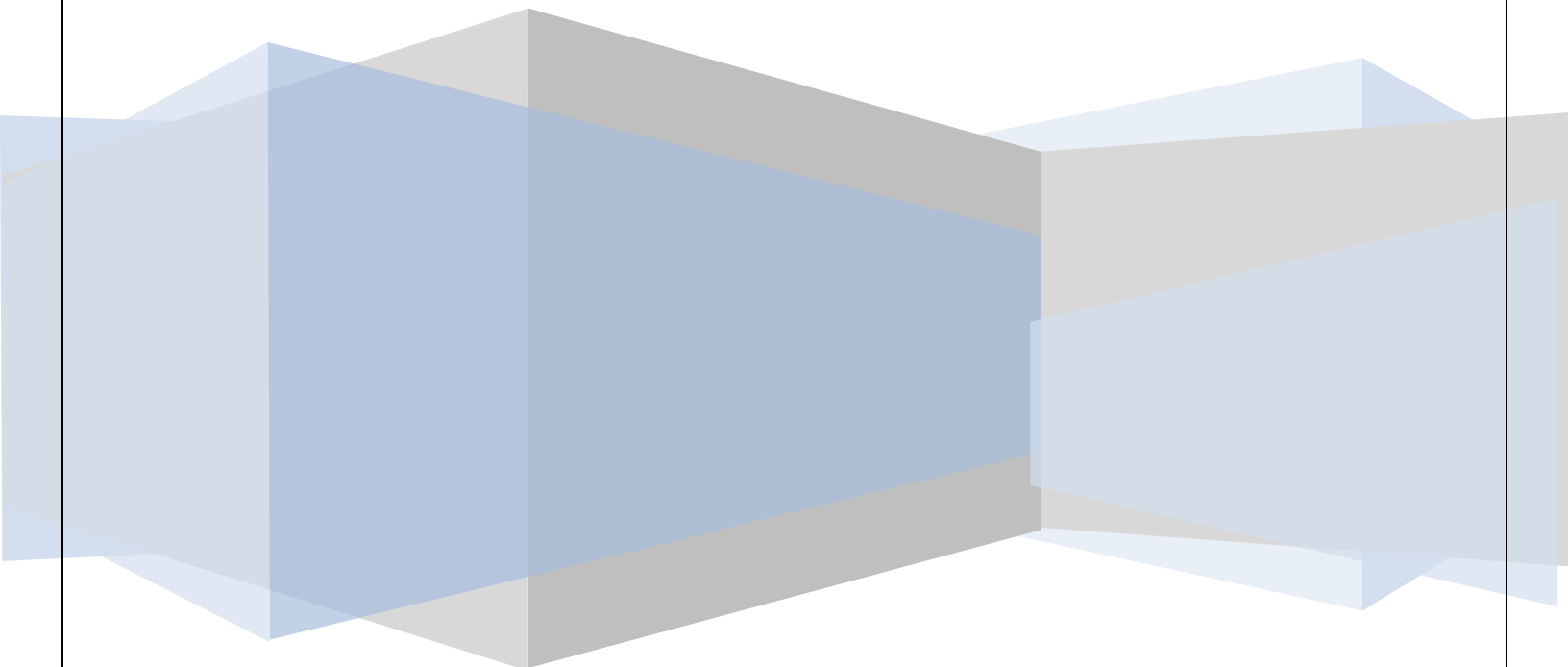




IT TOOK YOU YEARS OF EXPERIENCE
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TACT is an online technology academy for competency training to train the IT professionals and uplift their career to discover more opportunities in the space of emerging technologies.

Amazon AWS Course Content



Introduction to cloud computing

Introduction to Cloud Computing

Why Cloud Computing?

Benefits of Cloud Computing

Types of Cloud Computing

Public Cloud

Private Cloud

Hybrid Cloud

Community Cloud

Software as a Service

Platform as a Service

Infrastructure as a Service

Horizontal vs. vertical scaling

Cloud Computing Issues

Security

Costing Model

Service Level Agreement (SLA)

Cloud Interoperability Issue

What to migrate?

Legal and compliance

Virtualization

What is virtualization?

Virtualization and cloud computing

Types of virtualization

Virtualization terminologies

Hypervisor

Benefits

Vendors

Amazon Web Services (AWS)

Introduction to AWS

Elastic computing

Introduction to the AWS products

Regions and Availability Zones

Signing up for AWS

AWS Free usage tier

Introduction AWS management console

EC2 Instances

Understanding AMI

Launching your first AWS instance

On-demand Instance pricing

Reserved Instance pricing

Spot instance pricing

Setting up security

- Security groups
- Choosing the AMI
- Creating a new AMI
- Public and Private IP's
- Deploying a new instance from the created AMI
- Key Pairs
- Elastic IP's
- ELB (Elastic Load Balancer)

EBS (Elastic Block Storage)

- Create EBS volumes
- Delete EBS Volumes
- Attach and detach EBS volumes
- Mounting and un-mounting EBS volume
- Creating and deleting snapshots
- Creating volumes from snapshots

S3 (Simple Storage Service)

- What is S3?
- RRS (Reduced Redundancy storage)
- S3 durability and redundancy
- S3 Buckets
- S3 Uploading Downloading
- S3 Permissions
- S3 Object Versioning
- S3 Lifecycle Policies

Glacier storage

Route53

- Creating zones
- Hosting a website
- Understanding routing policies
- Weighted simple and failover policies

CloudFront

- Use of cloudfront
- Creating a cloudfront distribution
- Hosting a website of cloudfront distribution
- Implementing restrictions
- Configuring origins and behaviours

Identity access management (IAM)

- Creating Users and Groups
- Applying policies
- Password Policy
- Roles

Amazon Virtual Private Cloud (VPC)

- What is VPC?
- VPC configuration

VPC security
Elastic IP's
Inbound and outbound ACL's

Cloud Formation

What is cloud formation?
Deploying template
Create Stack
Delete Stack
Monitoring the resources

Relational Database Service (RDS)

Selecting the Database type
Configuring the database
Creating database
Configuring backups
Configuring the maintenance windows
Connecting to the database.

CloudWatch

Cloudwatch dashboard
Configuring Monitoring services
Setting thresholds
Configuring actions
Creating a cloudwatch alarm
Getting statistics for ec2 instances
Monitoring other AWS services
Configuring Notifications
Integrating cloudwatch with Auto scaling

Autoscaling

Boot straping
Create a launch configuration
Create an Auto Scaling group
Create a policy for your Auto Scaling group
set up an auto-scaled, load-balanced Amazon EC2 application

Simple Notification Service (SNS)

What is SNS?
Creating a topic
Create subscription
Subscribed to the subscription

Simple Email Service (SES)

Simple Queue Service (SQS)

Command line management.

Scaling Applications in AWS

Deploying scalable applications in AWS
Selecting and launching an application environment
Provisioning application resources with CloudFormation

Dynamo DB

Creating a Dynamo db
Configuring alarms
Adding data manually

Elastic Beanstalk

Creating environment
Application versioning
Deploying a sample app

AWS troubleshooting

Troubleshooting EC2 instances
Troubleshooting using CloudWatch
Troubleshooting using ELB
Using CloudTrail

Project and AWS Case study

Creating and managing a multitier application on AWS platform
Best practices for AWS
Cost control strategies
Overview of AWS certification