



Assignment & Boot Camp

Assignment 1

- 1) Launch EC2 instance in any region
 - 2) Allocate an EIP to this instance
 - 3) Create another 10 GB EBS volume and attach
 - 4) Take a Snapshot of this EBS
 - 5) Restore another volume from Snapshot
 - 6) Stop the instance
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Assignment 2

- 1) Launch EC2 instance (win or linux)
 - 2) Assign a role (EC2 → S3) to EC2
 - 3) Take AMI of this EC2 and Copy to another Region
 - 4) Launch EC2 from AMI and retain the same role there
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Assignment 3

- 1) Launch an Application Load balancer with two EC2 instances as Targets
 - 2) Enable sticky session and Deregistration delay by 300 secs
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Assignment 4

e-Commerce site to be hosted on AWS

Core vcpu8, 16 GB RAM, 150 GB HDD, 5 GB Snapshot, WIN 2016

DB- v16 core, 64 GB RAM, 500 GB HDD, SQL Standard edition license

Best Price- 10 hrs

Assignment 5

- 1) Deploy Python platform by using Beanstalk.
 - 2) Deploy LAMP Stack by using cloudformation.
 - 3) Connect AWS account by CLI and get instance details (aws ec2 describe-instances) if any.
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Assignment - 6

- 1) Launch a MySQL RDS(Aurora) in your VPC(public subnet) followed by Single AZ (t2 instance)
 - 2) Setup a Backup retention as 7 days
 - 3) Backup window 5:30 PM everyday
 - 4) Connect the RDS from your local computer by using Workbench
 - 5) Create a backtrack
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Assignment - 7

- 1) Launch a MySQL RDS in your VPC(private subnet) followed by Single AZ (t2 instance)
 - 2) Setup a Backup retention as 7 days
 - 3) Backup window 5:30 PM everyday
 - 5) Create a snapshot
 - 6) Create a Read Replica and delete primary DB
 - 7) Promote Read Replica as primary
 - 8) Point in time recovery
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Assignment - 8

How can you deploy DRP for RDS

What is backtrack?

How can you Migrate DB from on premise to AWS

Serverless/parallel

Replica lag

Assignment - 9

- 1) Create any three S3 buckets
 - 2) Give Bob permission to access only first S3 bucket
 - 3) Give John permission to access last two buckets
 - 4) Launch S3 browser to upload data
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Assignment - 10

- 1) Create Public and Private Subnet
 - 2) Launch Instances (Windows) in both Pub and Pri subnets
 - 3) Launch a Bastion host (windows) in public subnet
 - 4) Connect Bastion host from your local computer
 - 5) Connect Server that in Pri subnet from bastion host
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Assignment - 11

- 1) Launch a linux instance
 - 2) Create a role (Ec2 to S3 full access)
 - 3) Attach the role to this newly created Linux
 - 4) Login Ec2 and type AWS S3 ls
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Assignment-12

- 1) Connect RDS from EC2
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Assignment-13

- 1) Create S3 lifecycle rule e.g. after 90 days object should go to Glacier
- 2) Encrypt your bucket
- 3) If someone deletes any object you will get notified in inbox
- 4) Create a static website in S3

- 5) Enable a Cross region replication
 - 6) Change the metadata of an object
 - 7) Change the storage class from standard to One zone IA
 - 8) Enable server access logging and setup
 - 9) Create a bucket policy
 - 11) Connect S3 from S3 browser
 - 12) Create a static website hosting and setup Cname
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Assignment-14

- 1) Buy a domain in godaddy
 - 2) Change the NS record of newly purchased domain to AWS NS
 - 3) Create zone in AWS
 - 4) Create a S3 bucket and make it as Static website platform
 - 5) Create necessary DNS record in R53 and point it to S3 bucket through Alias
 - 6) Browse domain to confirm S3 static website is opening
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Assignment-15

- 1) Create a failover record - If primary server fails then request will go to S3 bucket static website
 - 2) Create latency, Geo (US and India and all other), Simple, Weighted record.
 - 3) Create a failover between two A record
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Assignment-16

- 1) Without R53 how to configure DNS that will point to a website which is running on EC2
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Assignment-17

- 1) Launch EC2 instances in both Public and Private subnet
 - 2) Configure VPC endpoint
 - 3) Connect EC2 that is running on Private subnet
 - 4) Execute AWS S3 ls to see S3 bucket information is listed.
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Assignment-18

1) Create a Simple AD and join a windows EC2 in this domain.

Assignment-19

1) Create an EFS

2) Attach the EFS volume to multiple EC2 instances

3) Create a file in one of the EC2 instances and the same file must be replicated across all other EC2

Assignment-20

VPC transit gateway

Assignment-21

Docker deployment

Assignment-22

1) Create a lifecycle rule for EBS as backup policy (eg. Everyday 13:00)

Assignment-23

1) Create a Lambda function to start and stop instance

2) If someone will upload any content on S3 then this lambda will invoke

3) Create a SNS topic as target lambda- this SNS will trigger as and when lambda will invoke

Assignment-24

1) Create a Lambda function and integrate with API gateway as GET method

Assignment-25

1) Create an AWS backup plan

2) Set Backup policy every day 13:00 for RDS and EC2 instance

3) Retention period should be 7 days

4) Launch WIN EC2 and install IIS there and host a sample website

5) Enable VSS option and execute backup

Assignment-26

1) Create a Dynamo DB table

2) Make some entries and enable Global DB replication

3) Access Dynamo DB table from dynamodb client

Assignment-27

- 1) Setup and configure proper Discovery service for VM
 - 2) Launch VM in Azure or AWS
 - 3) Use SMS and Cloud Endure for migration
 - 4) Launch EC2 and install MySQL with sample DB
 - 5) Start migration by DMS
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Assignment-28

- 1) Create a VPN Endpoint for S3 interface
 - 2) Login to EC2 of private subnet and execute syntax S3 ls
 - 3) Create two VPC and establish a VPC peering between two VPCs
 - 4) Launch EC2 instances in each VPC and ping each other
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Assignment-29

- 1) Create SNS topic and integrate with EC2 recovery alarm.
 - 2) Create SNS topic and integrate with SQS and HTTP link
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Assignment-30

- 1) Create SSO
 - 2) Create AD and deploy new EC2 under AD
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Assignment-31

- 1) **Create a dashboard and add line bar widget to monitor EC2 CPU utilisation**
- 2) **Create another widget for EBS any metric**

- 3) **Create a Log group and Log stream and push some Lambda/EC2 logs to this log stream and then further analysis through Log Insight**
- 4) **Create an alarm on EC2 against System State**
- 5) **Create an Event Rule —> every day 21:00 a certain lambda will invoke.**
- 6) **Create an Event pattern e.g. if EC2 spot instance gets interrupted then certain Lambda will invoke**

Assignment-32

- 1) **Create SNS topic and subscribe both SMS and email protocol**
- 2) **Create an alarm in CW and set this newly created SNS over there**

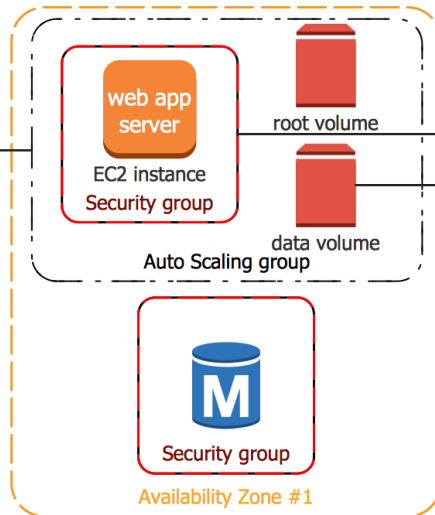
example.com



Amazon
Route 53



Elastic Load
Balancing



media.example.com

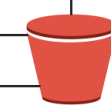


CloudFront
distribution

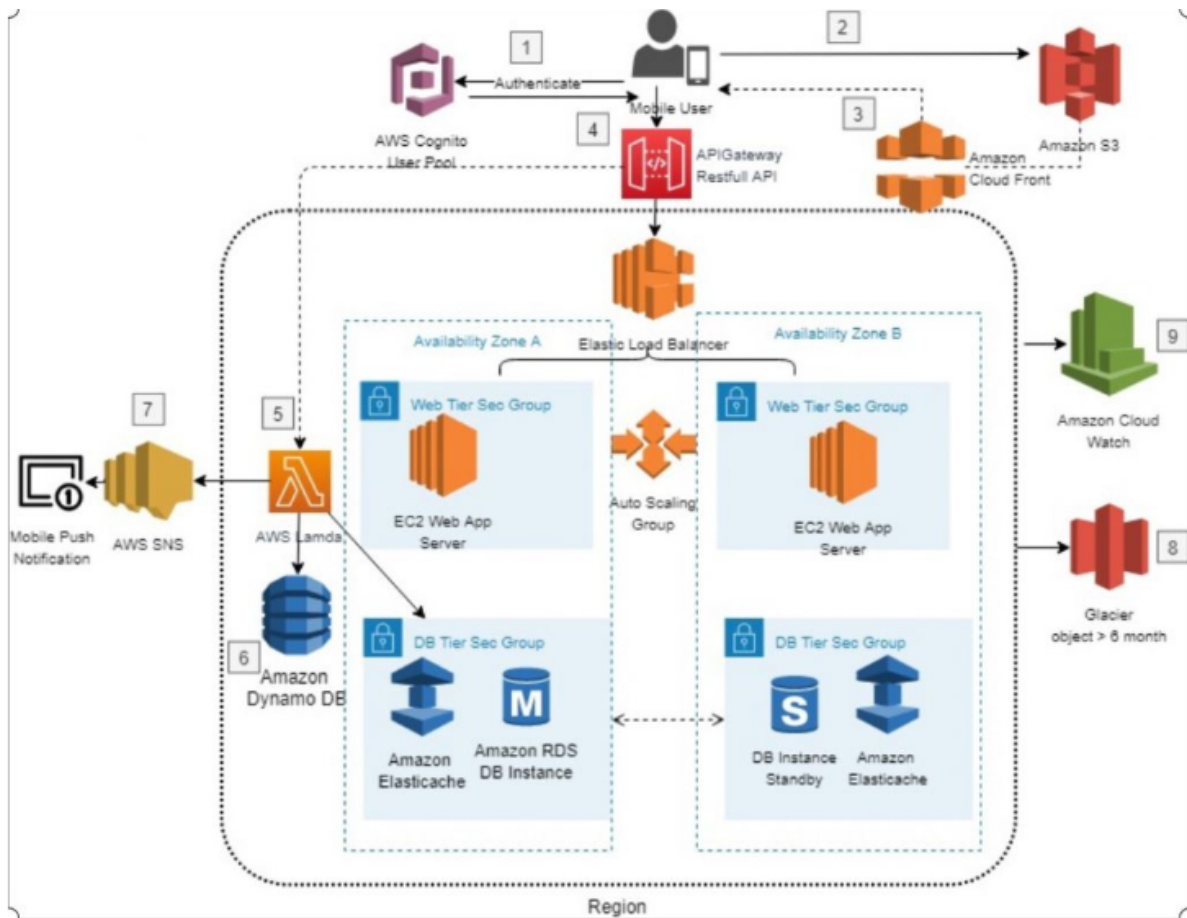
logs

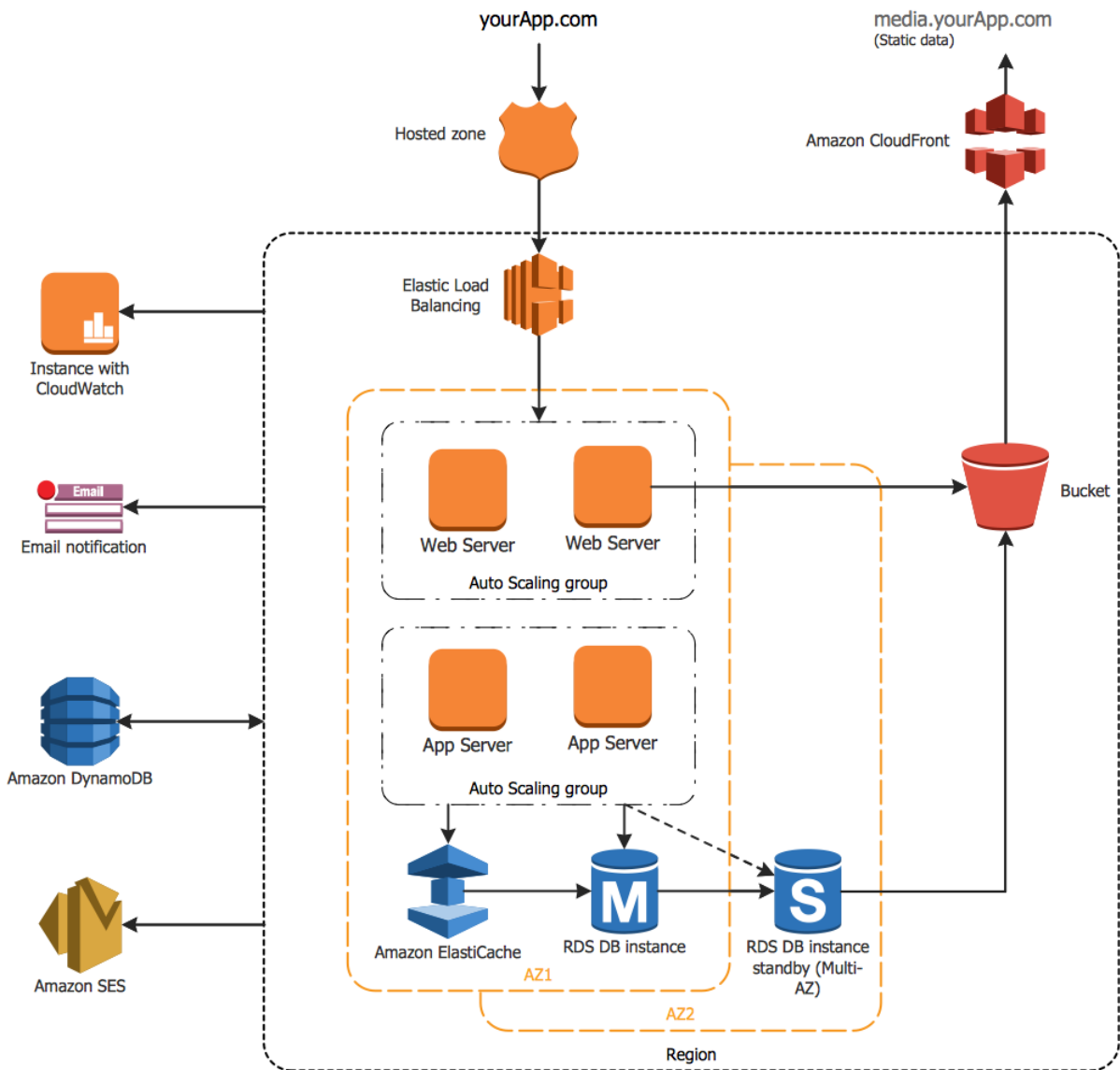


Amazon EBS
snapshot



Amazon S3
bucket





Topics Tracking

[illegible]