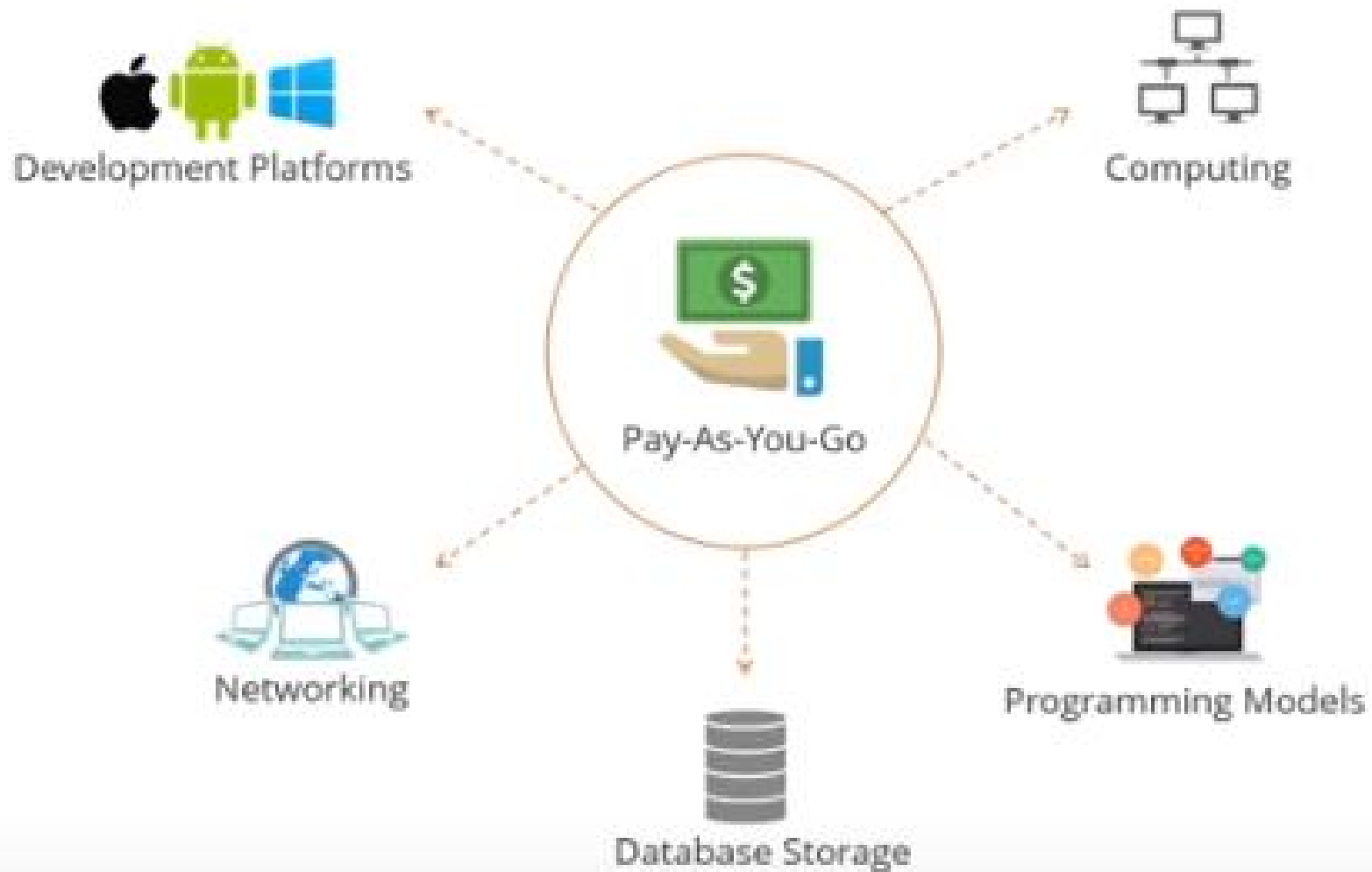


ISA 1- Summary

By Tamal Dey
Assistant Professor,
Dept. of MCA, PESU

Lab1-Setting Up Account



Amazon Web Services

Compute



EC2

Virtual Servers in the Cloud



Lambda PREVIEW

Run Code in Response to Events

Storage & Content Delivery



S3

Scalable Storage in the Cloud



Storage Gateway

Integrates On-Premises IT Environments with Cloud Storage



Glacier

Archive Storage in the Cloud



CloudFront

Global Content Delivery Network

Database



RDS

MySQL, Postgres, Oracle, SQL Server, and Amazon Aurora



DynamoDB

Predictable and Scalable NoSQL Data Store



ElastiCache

In-Memory Cache



Redshift

Managed Petabyte-Scale Data Warehouse Service

Networking



VPC

Isolated Cloud Resources



Direct Connect

Dedicated Network Connection to AWS



Route 53

Scalable DNS and Domain Name Registration

Administration & Security



Directory Service

Managed Directories in the Cloud



Identity & Access Management

Access Control and Key Management



Trusted Advisor

AWS Cloud Optimization Expert



CloudTrail

User Activity and Change Tracking



Config PREVIEW

Resource Configurations and Inventory



CloudWatch

Resource and Application Monitoring

Deployment & Management



Elastic Beanstalk

AWS Application Container



OpsWorks

DevOps Application Management Service



CloudFormation

Templated AWS Resource Creation



CodeDeploy

Automated Deployments

Analytics



EMR

Managed Hadoop Framework



Kinesis

Real-time Processing of Streaming Big Data



Data Pipeline

Orchestration for Data-Driven Workflows

Application Services



SQS

Message Queue Service



SWF

Workflow Service for Coordinating Application Components



AppStream

Low Latency Application Streaming



Elastic Transcoder

Easy-to-use Scalable Media Transcoding



SES

Email Sending Service



CloudSearch

Managed Search Service

Mobile Services



Cognito

User Identity and App Data Synchronization



Mobile Analytics

Understand App Usage Data at Scale



SNS

Push Notification Service

Enterprise Applications



WorkSpaces

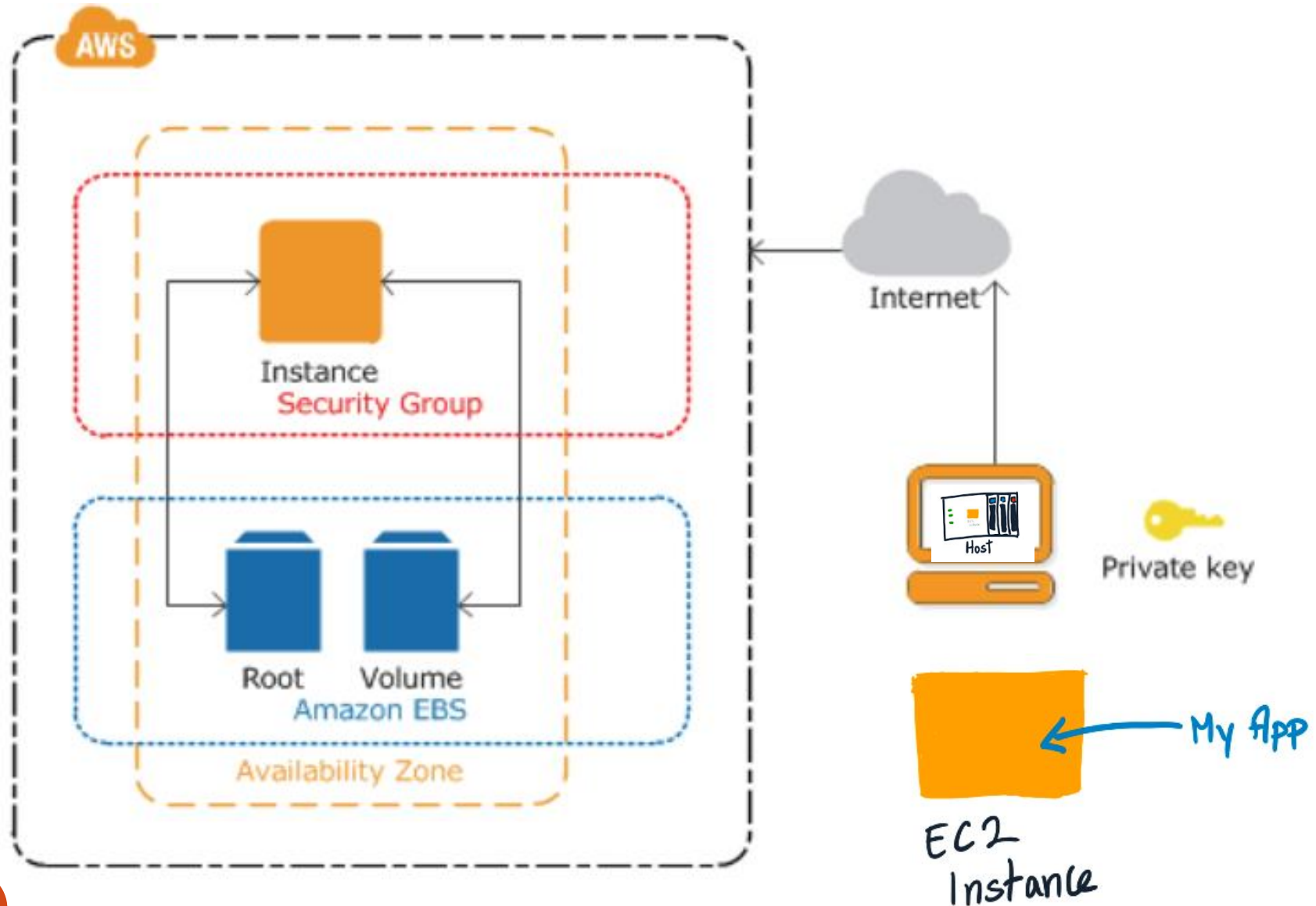
Desktops in the Cloud



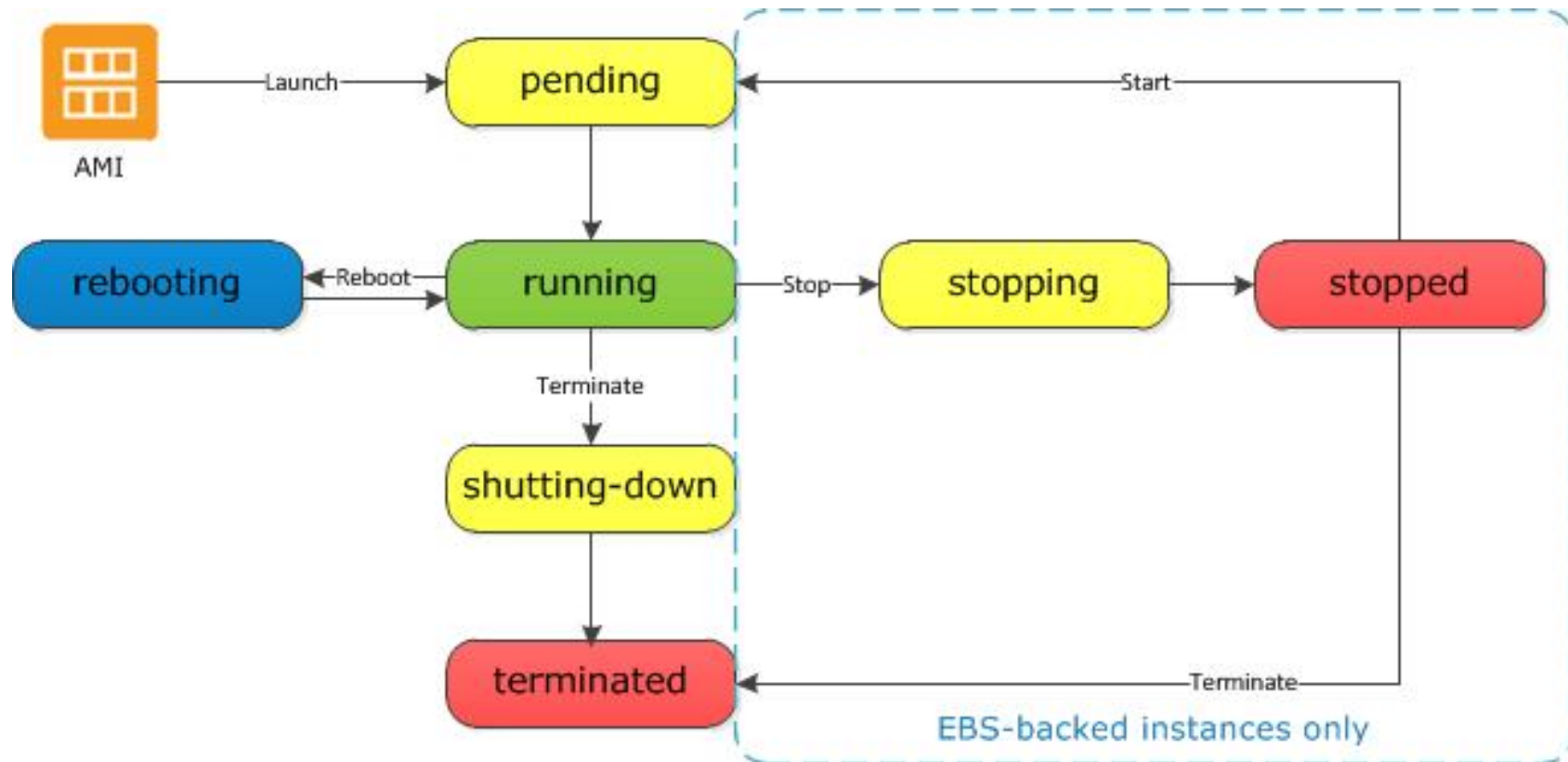
Zocalo

Secure Enterprise Storage and Sharing Service

Lab2&3:-EC2 Instance (Linux/Windows)

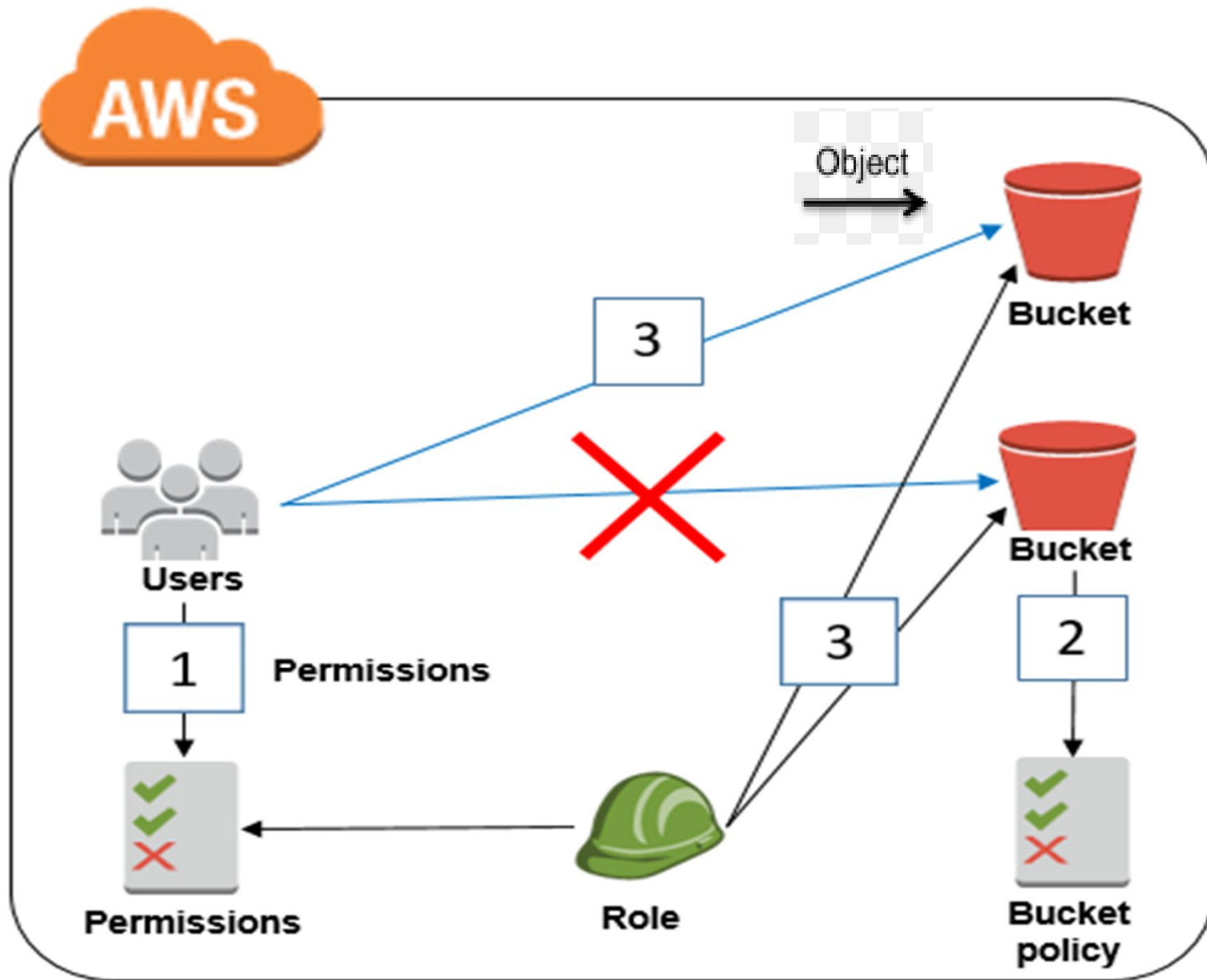


Instance Lifecycle



- Instance Usage Billing Info.
- <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-instance-lifecycle.html>

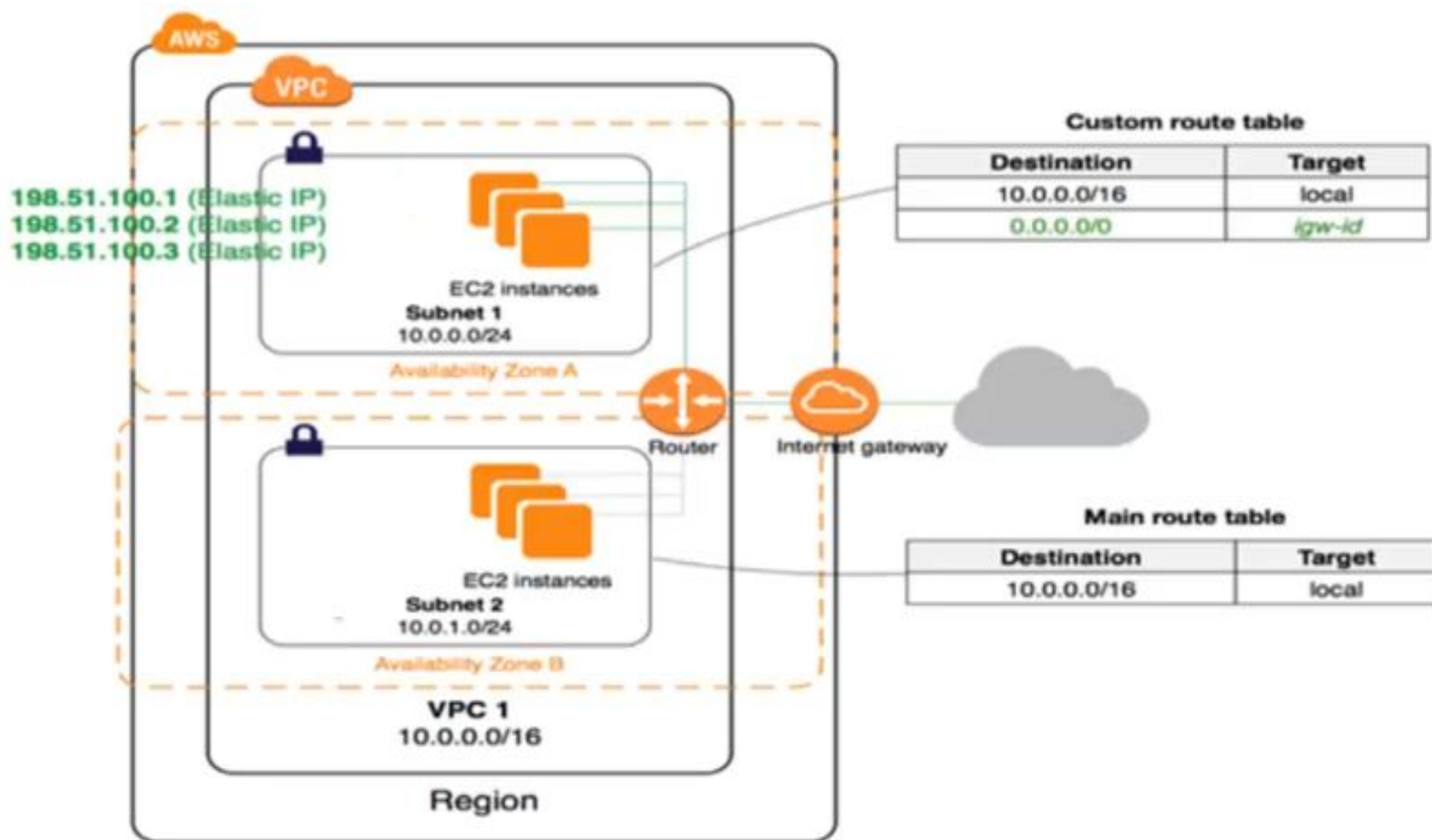
Lab4: S3



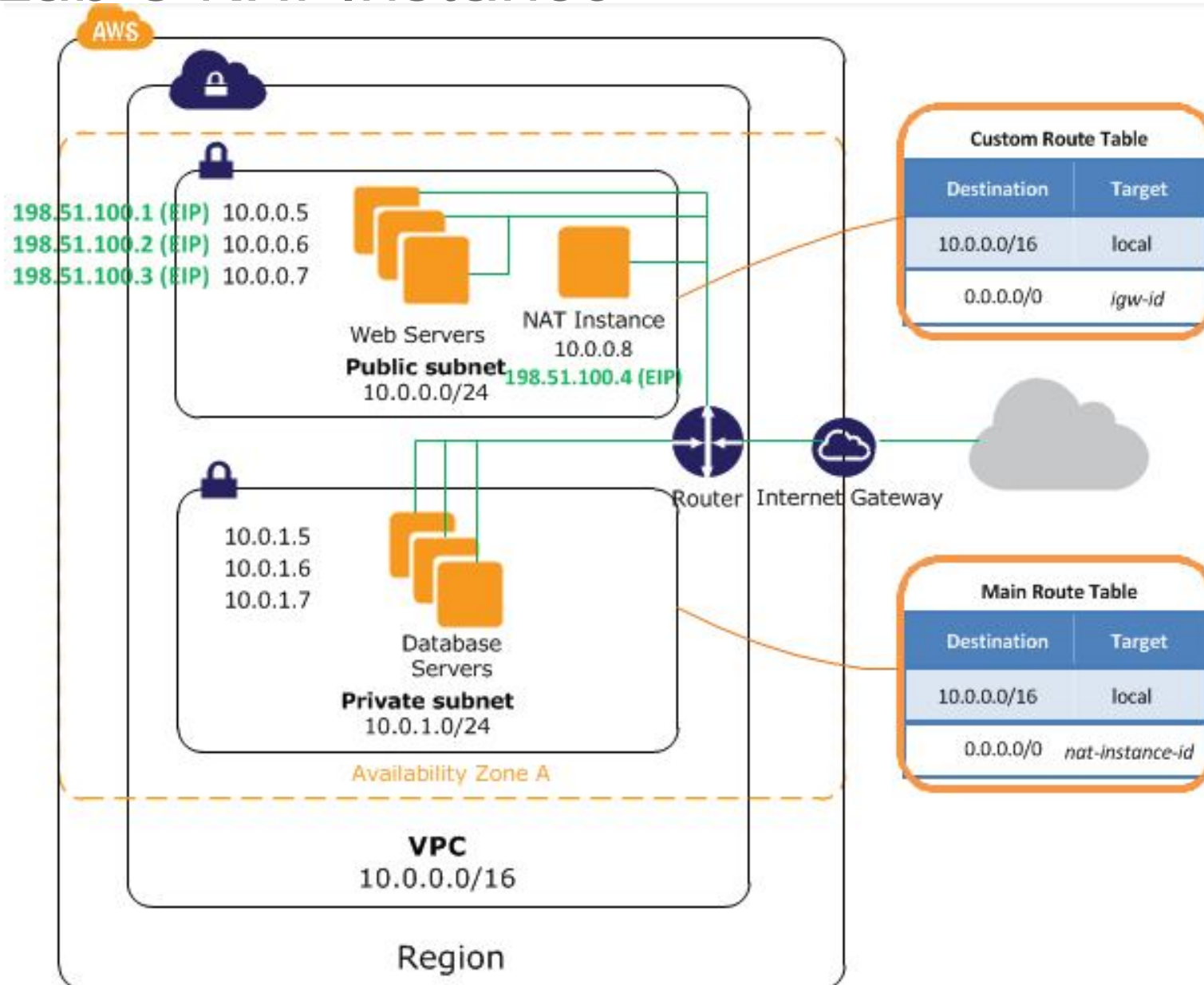
S3 Operations

- Storage Class
- Life Cycle Management
- Static Webpage Hosting
- Data Protection
 - Data Encryption
 - Versioning
- Bucket Policy (Permission setting)
- Replication (Cross-Region)
- Accelerated Transfer

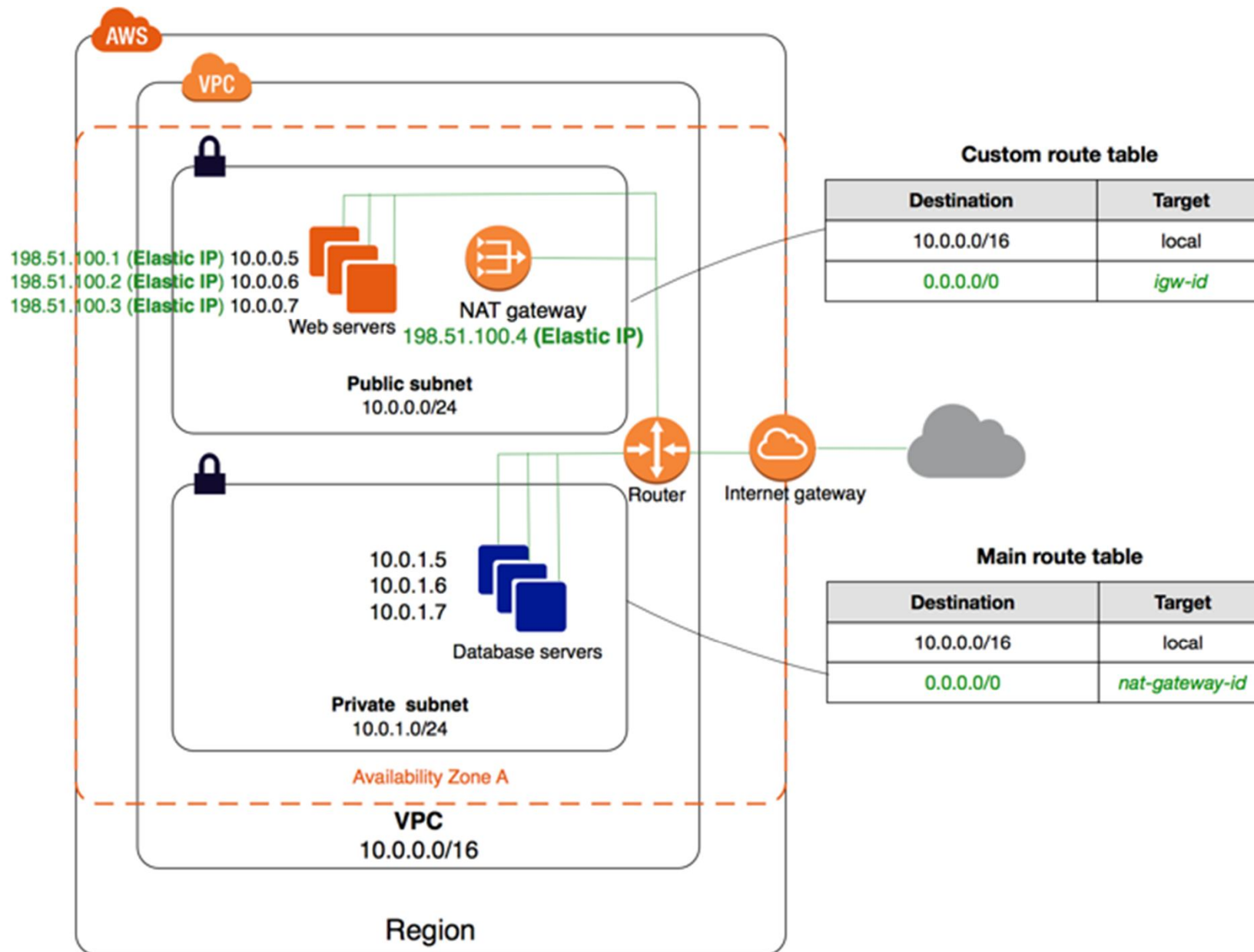
Lab 5-VPC



Lab 6-NAT Instance



Lab 6-NAT Gateway



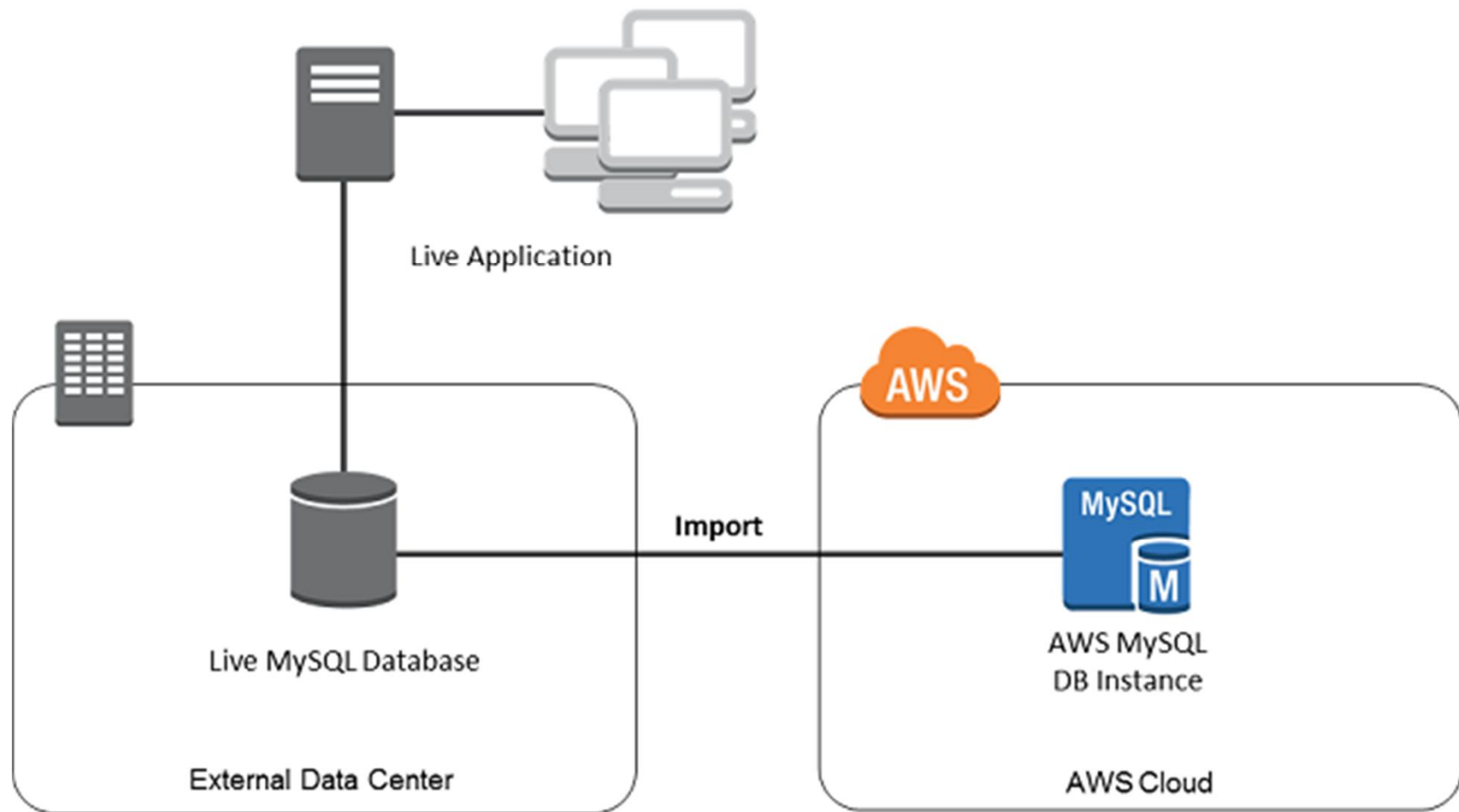
Custom VPC Deletion

- No Running instances (Under Custom VPC)
- Go to NAT Gateway -> Action -> Delete First
- Go to VPC -> Action -> Delete Custom VPC

Default VPC Deletion and Create again

- No Running instances (under Default VPC)
- Go to VPC -> Action -> Delete **Default VPC and** Create same

Lab 7-RDS



Lab 8

AWS CloudWatch

Amazon CloudWatch is a monitoring service for AWS cloud resources and the applications you run on AWS.



