

AWS Cloud

An Introduction

Elastic Compute Cloud::EC2

American Tamil Media
Academy



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About

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What is **Cloud Computing**?



Amazon EC2

About EC2

- ✔ Virtual Machine
- ✔ Availability Zone
- ✔ EC2,
- ✔ On Demand, RI, Spot



Amazon EC2

Storage

- ✔ Block Storage
- ✔ Instance Store vs. EBS backed
- ✔ EBS Snapshot
- ✔ Incremental backup to S3



Amazon EC2

Security in EC2

- ✔ Key Pair
- ✔ Virtual Private Cloud- VPC
- ✔ Security Group
- ✔ Data Protection & IAM



Amazon EC2

Placement Group

- ✔ Cluster Placement Group
- ✔ Partition Placement Group
- ✔ Spread Placement Group
- ✔ Limitation



Amazon EC2

Amazon Machine Image: AMI

- ✓ AMI
- ✓ Region Specific
- ✓ Architecture 32 / 64 bit
- ✓ Paid, Shared, Public Image



Amazon EC2

EC2

- ✓ TAG : Metadata
- ✓ Operating Systems
- ✓ Stop vs. Terminate
- ✓ VPC / Security



Amazon S3

Instance Type

- ✓ <https://www.ec2instances.info/>
- ✓ HW Limitation
- ✓ RDS, DMS Instances
- ✓ M, C, R, T, I :: Types



Elastic Compute Cloud EC2

Compute Services

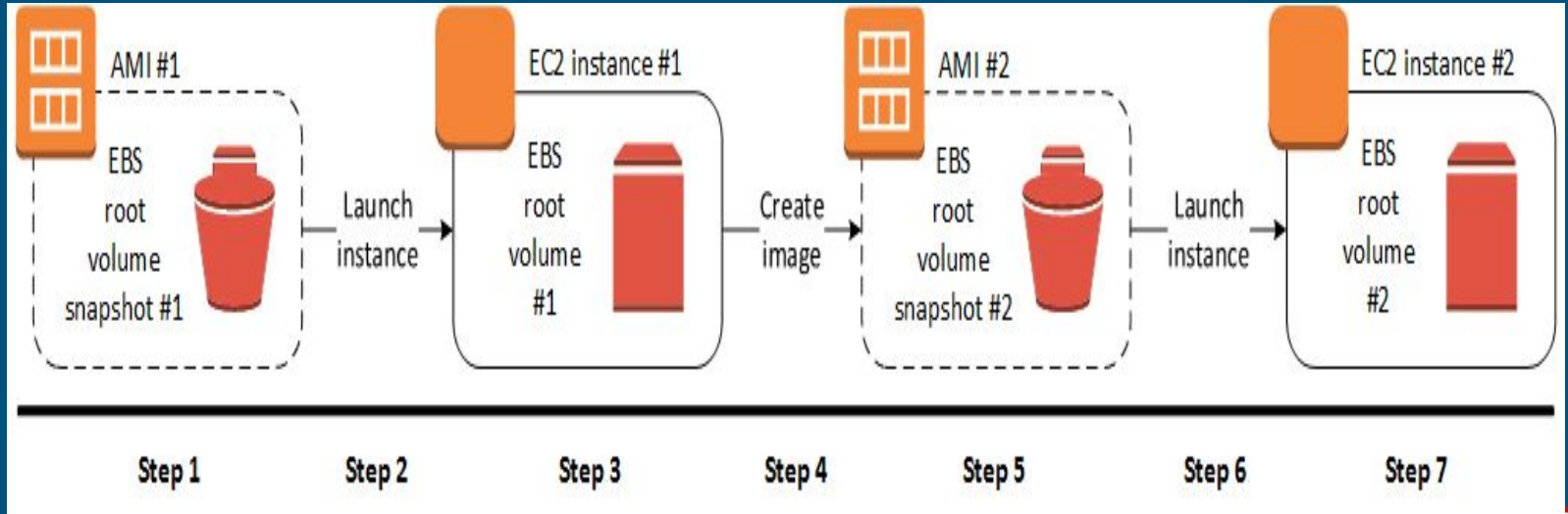
- ✓ Lambda
- ✓ ECS
- ✓ EKS
- ✓ Lightsail



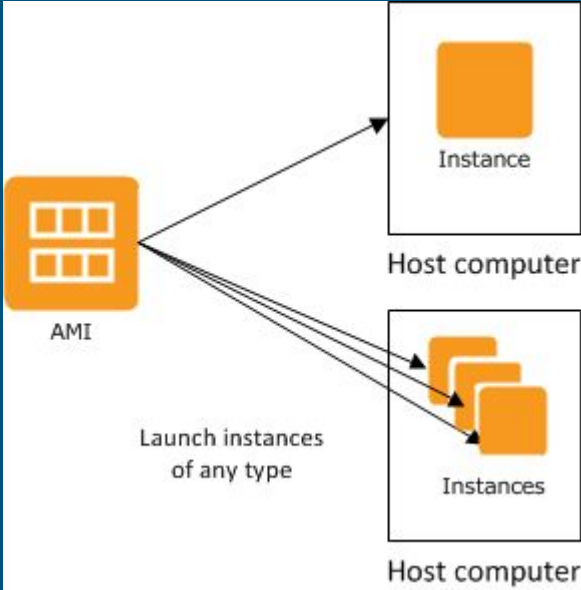
Questions?



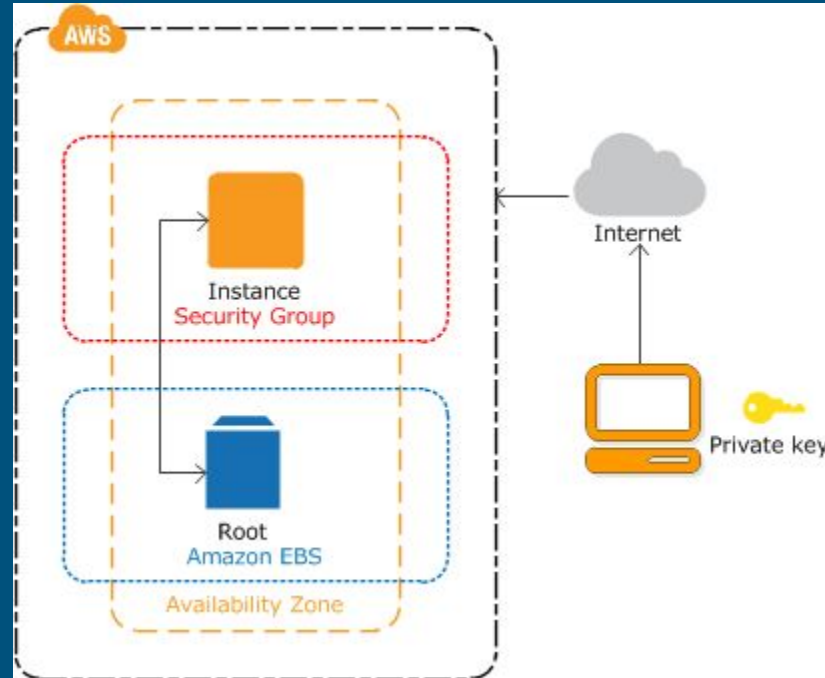
Amazon EC2 AMI



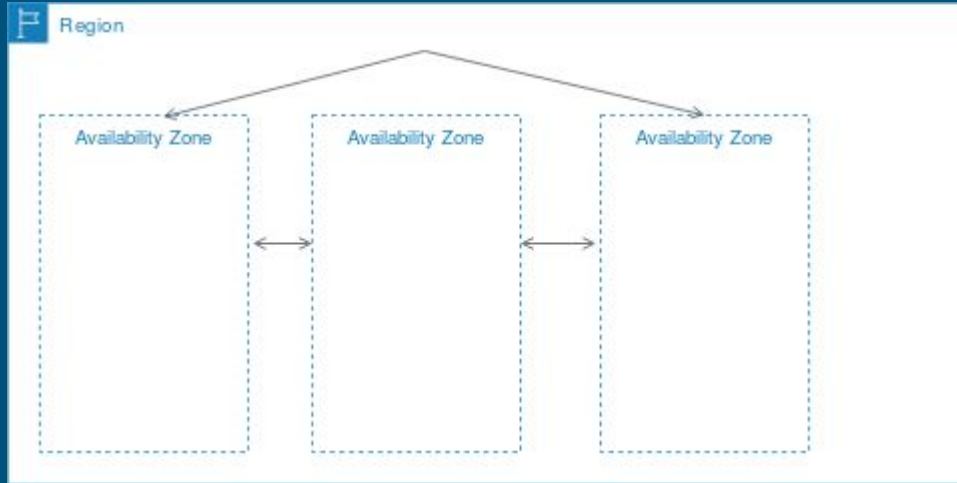
Amazon EC2 AMI



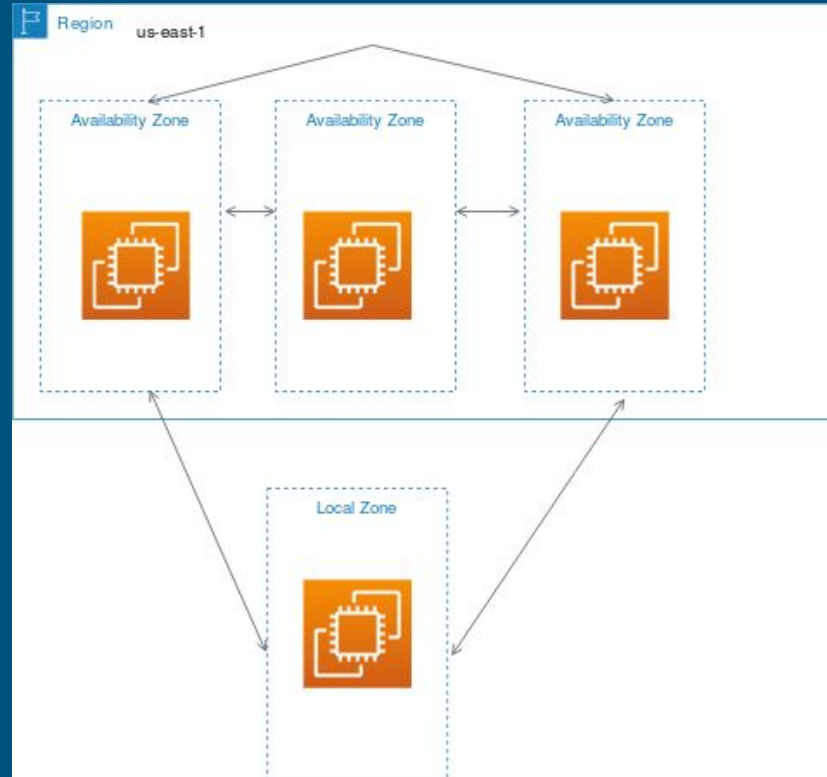
Amazon EC2 EBS



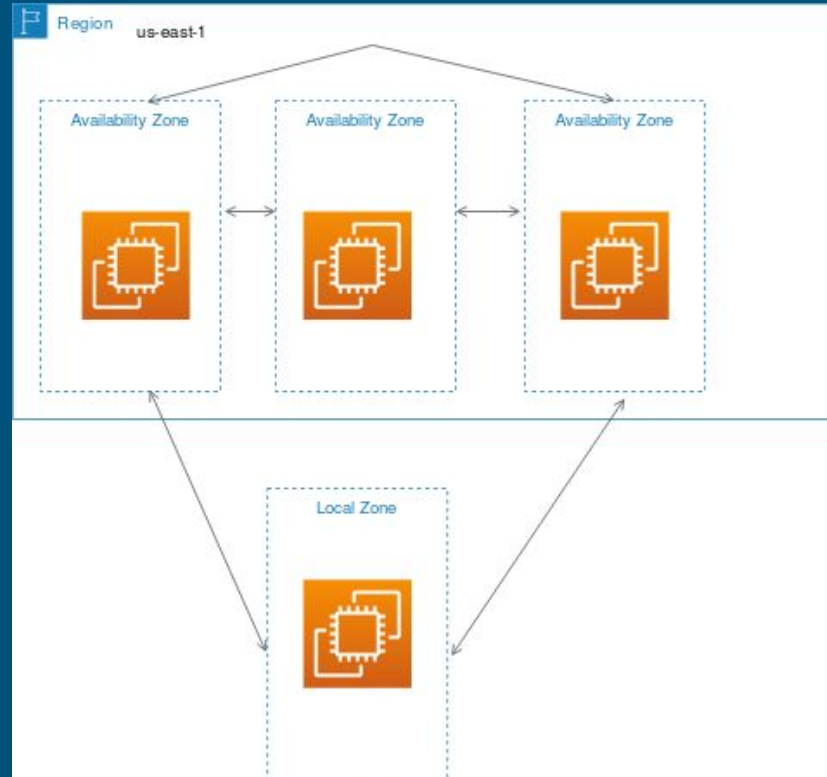
Amazon EC2 Region & AZ



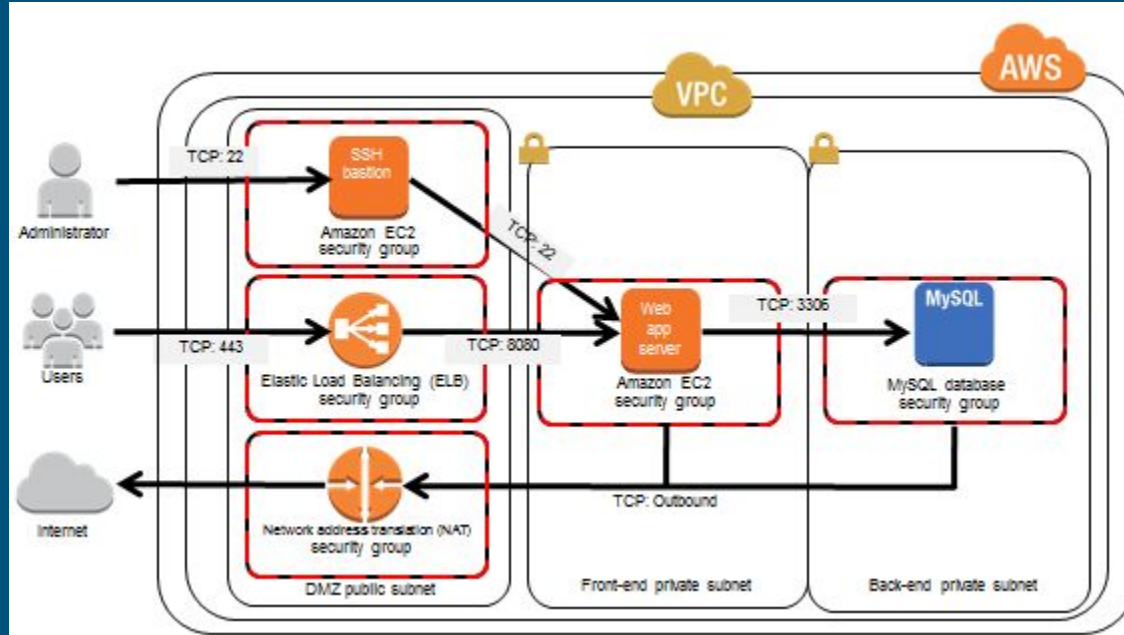
Amazon EC2 Region, AZ & LZ



Amazon EC2 Region, AZ & LZ



Amazon EC2 Security



Amazon EC2 NACL & SG

