

Building pipeline of jobs using Jenkins and Deploying it on cloud - AWS (EC2)



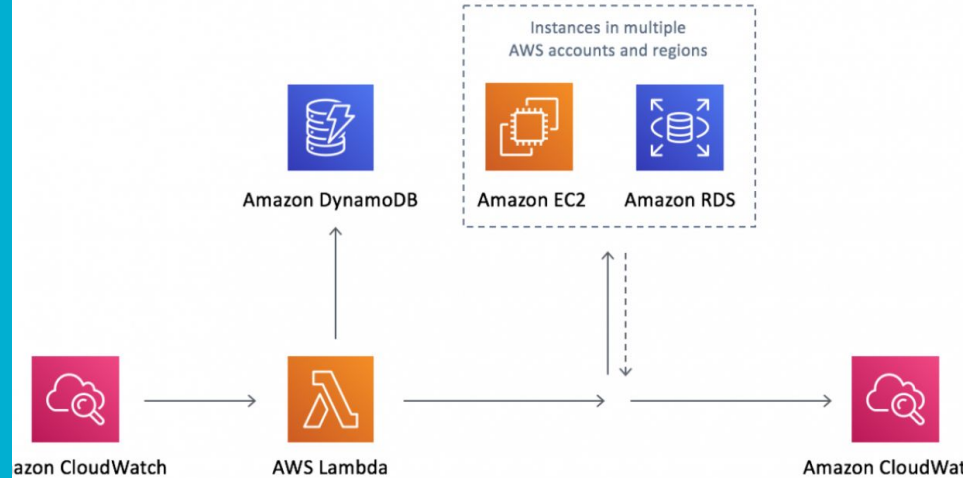
AWS Cloud Deployment (related terms and meaning)

Uses of AWS EC2

- Deploying Applications
- Scaling Applications
- Deploying ML models
- Hybrid Cloud Environment
- Cost effective
- Flexibility

Lets setup our cloud environment

Lets create *AWS EC2* instance



Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud.

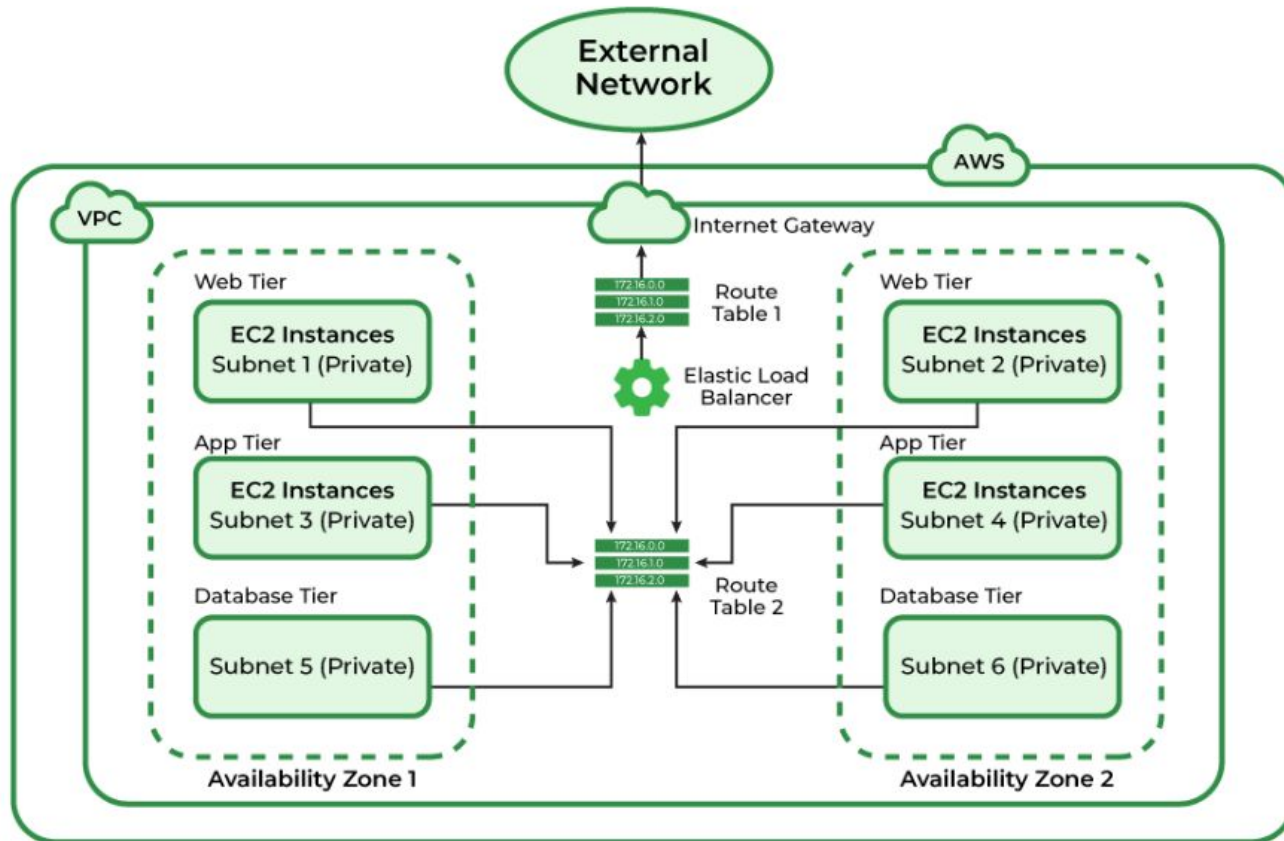
We can deploy our applications in Elastic Compute Cloud (ECC) servers without worrying about underlined infrastructure.

-security : we can configure the EC2-Instance in a very secure manner by using the **VPC, Subnets, and Security groups**.

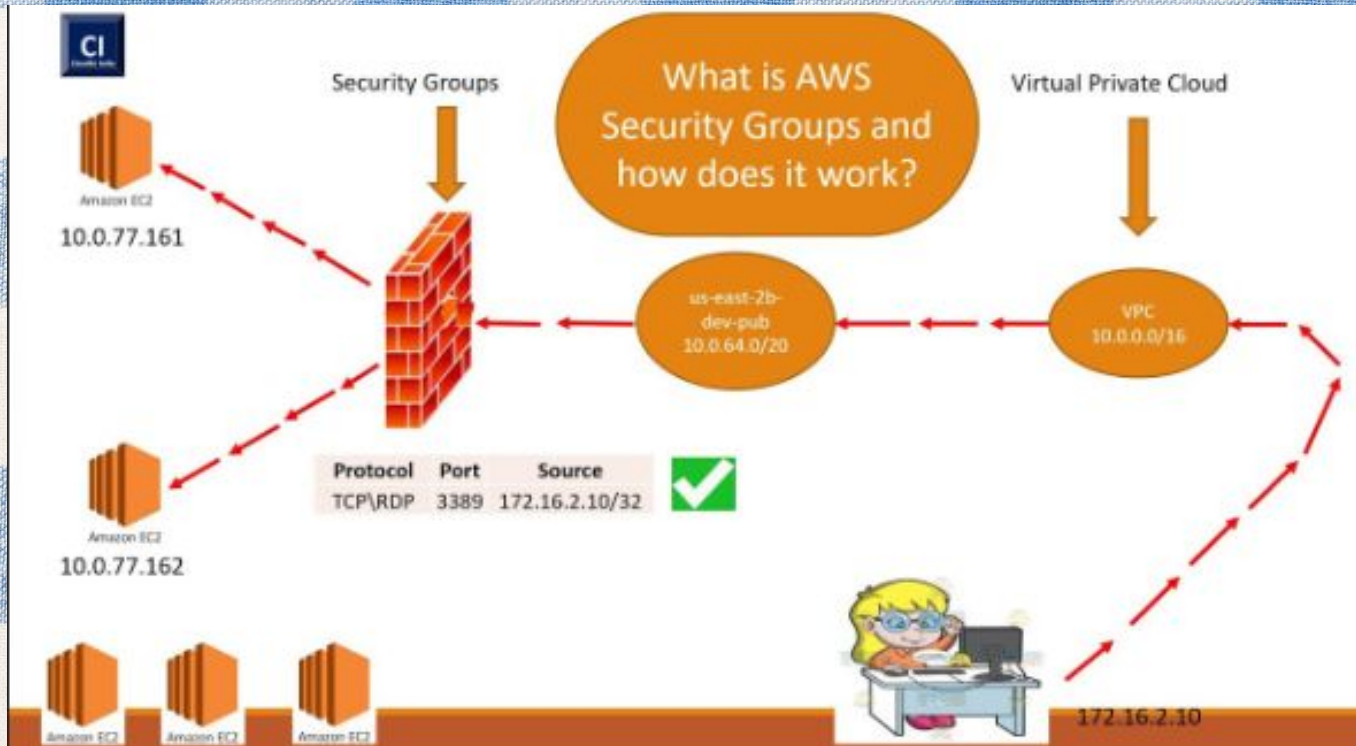
What is VPC Subnets??
What is Security Groups ??



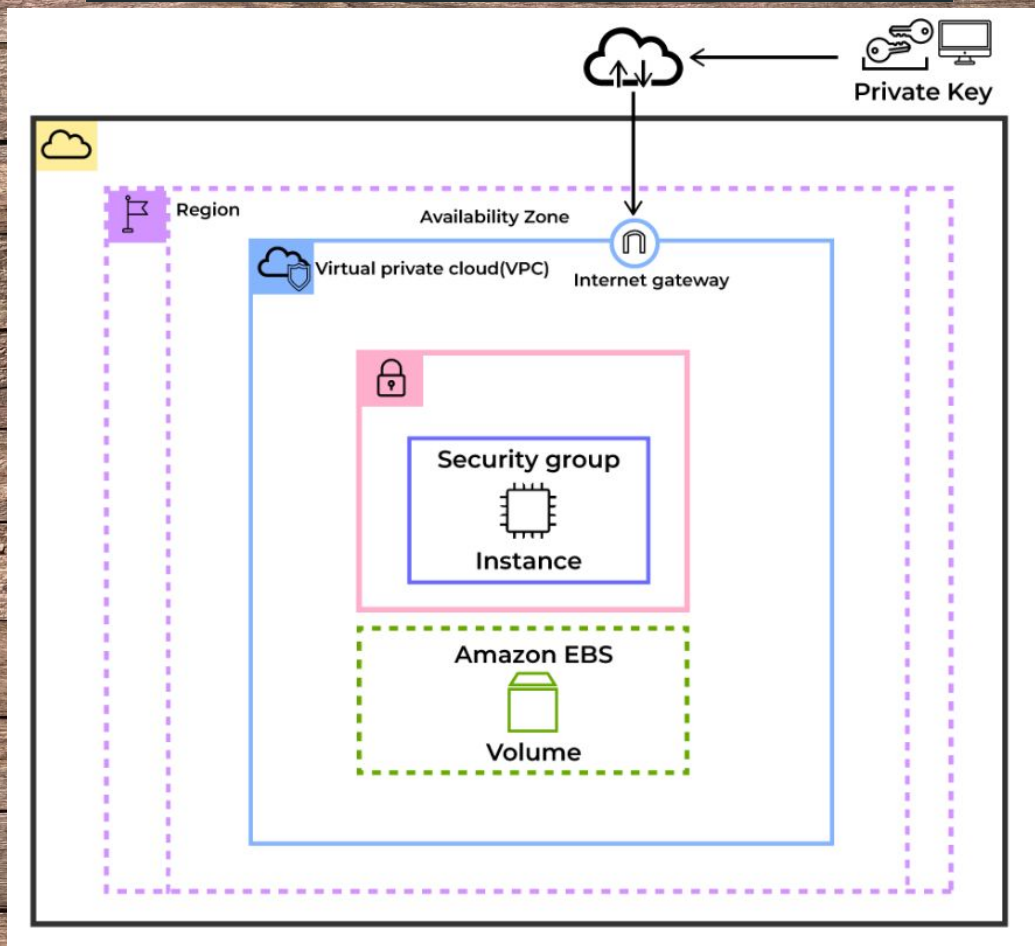
Virtual Private Cloud



Security Groups



How EC2 instance is visualised



Instance Type

Instance
generation

Additional
capability

c7gn.xlarge

Instance
family

Processor
family

Instance
size

[Know more](#)

▼ Instance type [Info](#)

Instance type

t3.micro

Free tier eligible

Family: t3 2 vCPU 1 GiB Memory Current generation: true
On-Demand RHEL base pricing: 0.0708 USD per Hour
On-Demand SUSE base pricing: 0.0108 USD per Hour
On-Demand Linux base pricing: 0.0108 USD per Hour
On-Demand Windows base pricing: 0.02 USD per Hour

☒ All generations

[Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

Instance Families

- C – Compute optimized
- D – Dense storage
- F – FPGA
- G – Graphics intensive
- Hpc – High performance computing
- I – Storage optimized
- Im – Storage optimized with a one to four ratio of vCPU to memory
- Is – Storage optimized with a one to six ratio of vCPU to memory
- Inf – AWS Inferentia
- M – General purpose
- Mac – macOS
- P – GPU accelerated
- R – Memory optimized
- T – Burstable performance
- Trn – AWS Trainium
- U – High memory
- VT – Video transcoding
- X – Memory intensive

Processor families

- a – AMD processors
- g – AWS Graviton processors
- i – Intel processors

Additional Capabilities

- d – Instance store volumes
- n – Network and EBS optimized
- e – Extra storage or memory
- z – High performance
- q – Qualcomm inference accelerators
- flex – Flex instance

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