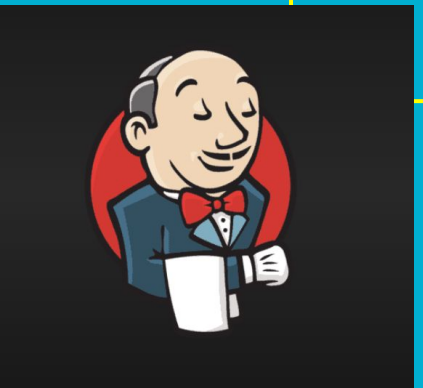
Building pipeline of jobs using Jenkins and Deploying it on cloud - AWS (EC2)



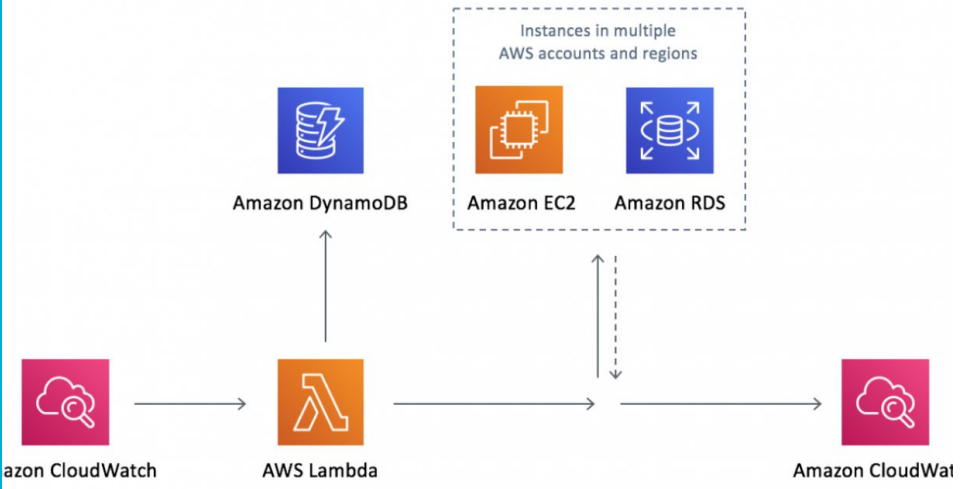
AWS Cloud Deployment
(related terms and meaning)

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



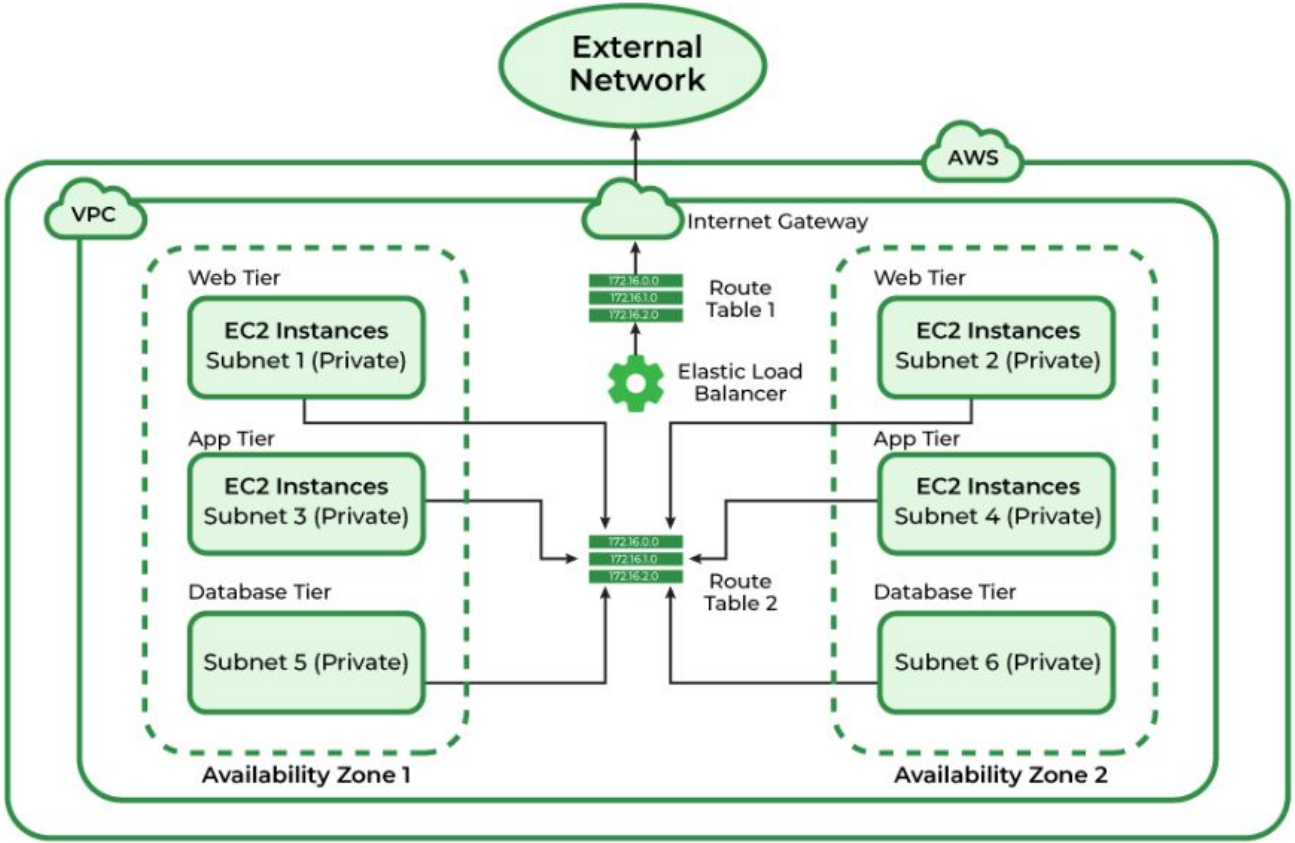
Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud.

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

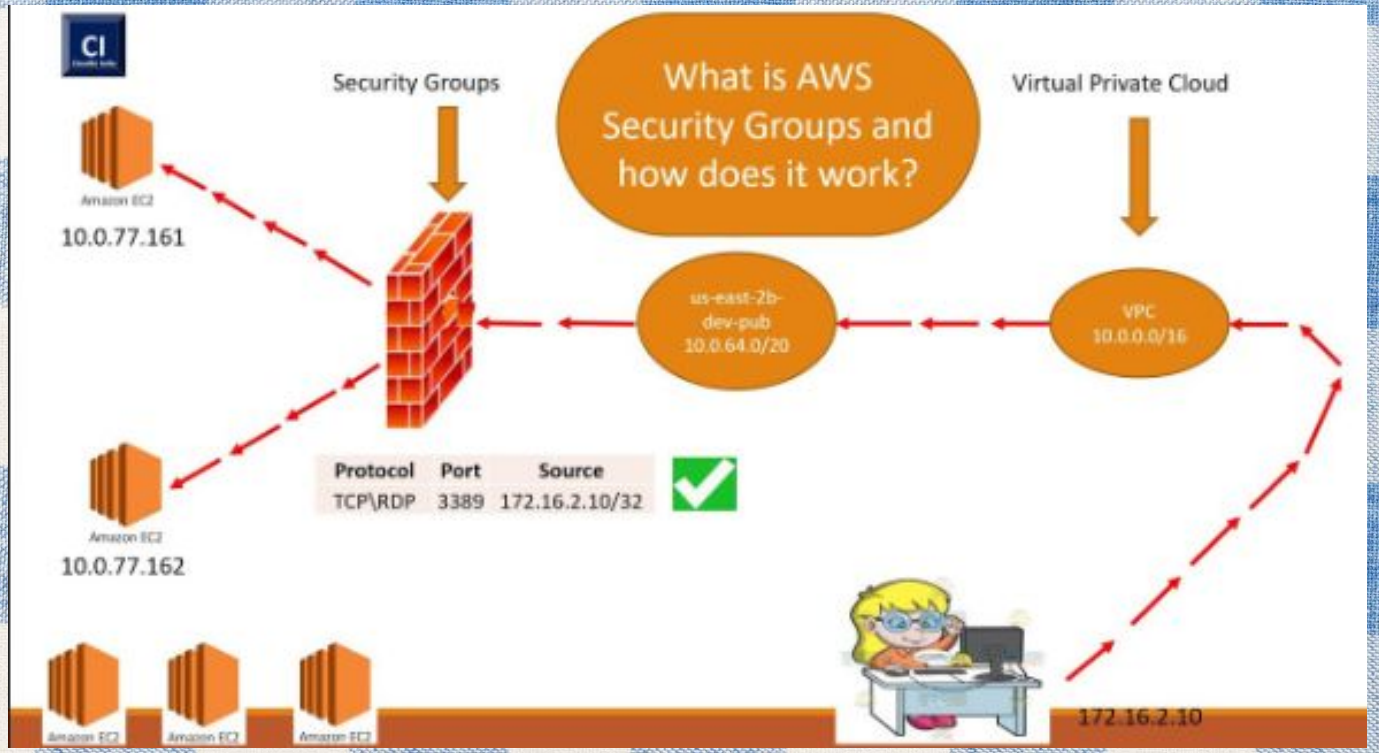
-security : we can configure the EC2-Instance in a very secure manner by using the **VPC, Subnets,** and **Security groups**.

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

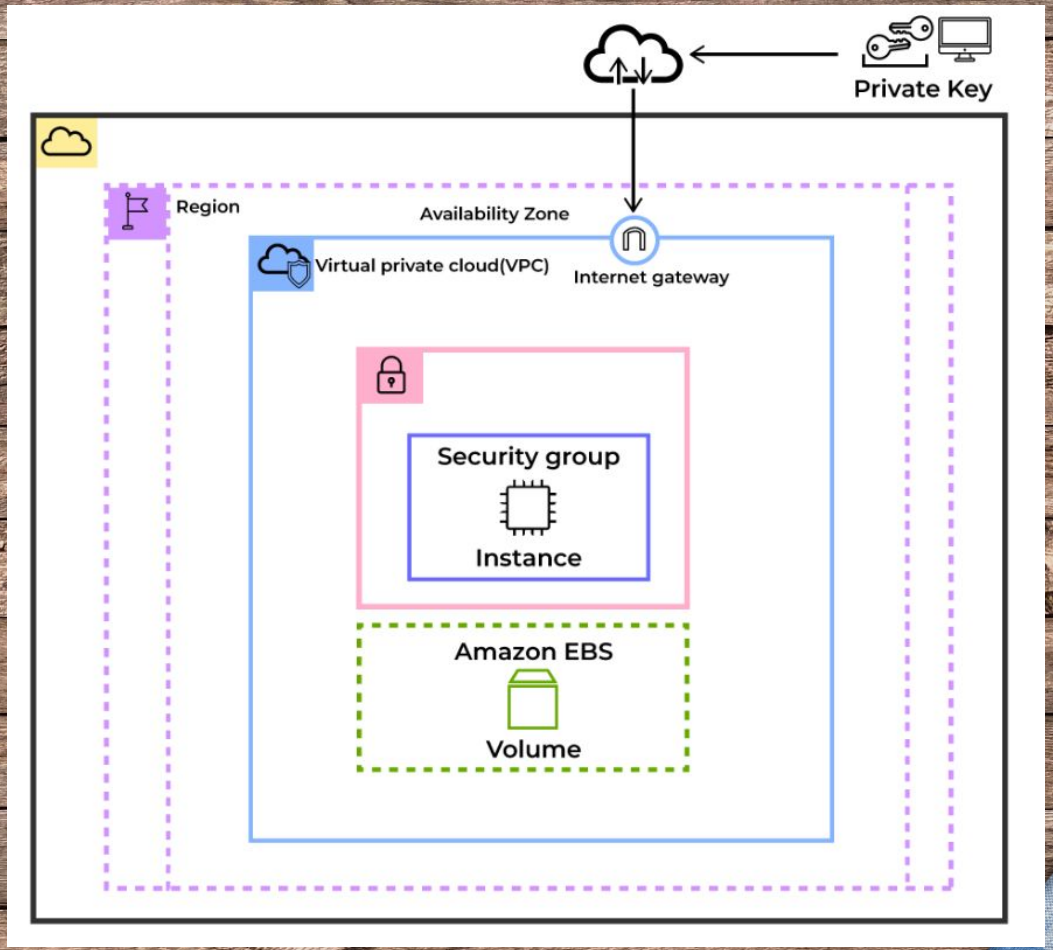
Virtual Private Cloud



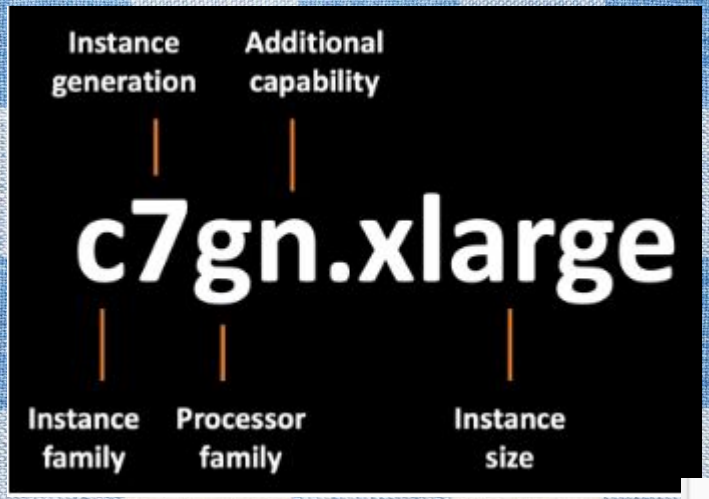
Security Groups



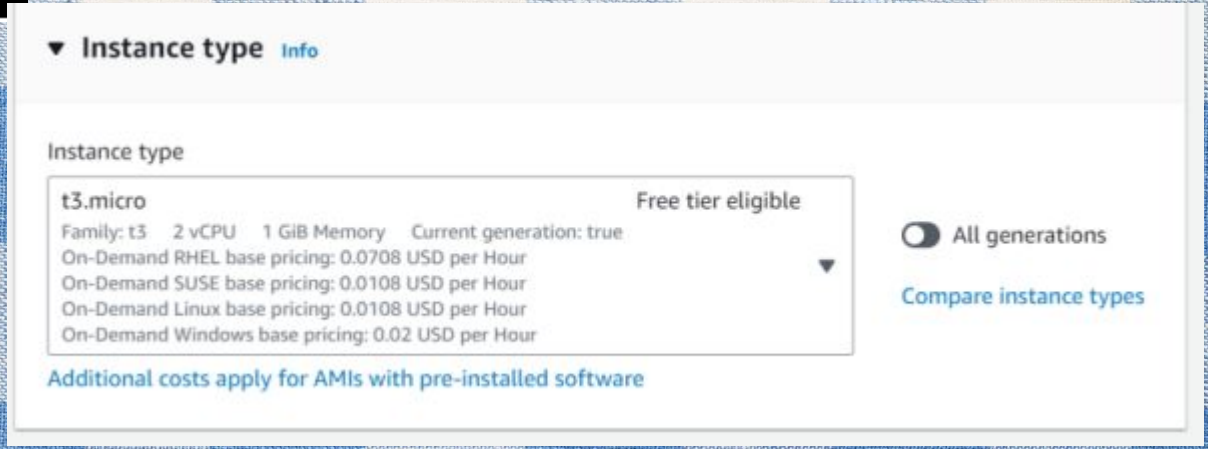
How EC2 instance is visualised



Instance Type



Know more



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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