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EC2 fundamentals

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- Spot instances are good for short workloads and this is the cheapest EC2 purchasing option. But, they are less reliable because you can lose your EC2 instances.
- Security Groups operate at the EC2 instance level and can control traffic.
- EC2 Reserved instances can be reserved for 1 or 3 years only.
- Compute Optimized EC2 instances are great for compute-intensive workloads requiring high-performance processors (e.g. batch processing, media transcoding, high-performance computing, scientific modeling & machine learning, and dedicated game servers).
- Reserved instances are good for long workload. You can reserve EC2 instances for 1 or 3 years. EC2 user data is used to bootstrap your EC2 instances using a bash script. This script can contain commands such as installing software/packages, download files from internet, or anything you want.
- Storage Optimized EC2 instances are great for workloads requiring high, sequential read-write access to large data sets on local storage.

- Memory optimized EC2 instances are great for workloads requiring large data sets in memory.
- Security groups can be attached to multiple EC2 instances within the same AWS Region / VPC.
- Dedicated Hosts are good for companies with strong compliance needs for software that have complicated licensing models. This is the most expensive EC2 purchasing option available.
- Dedicated Hosts:- Get visibility on the physical servers, cores and underlying network socket visibility.