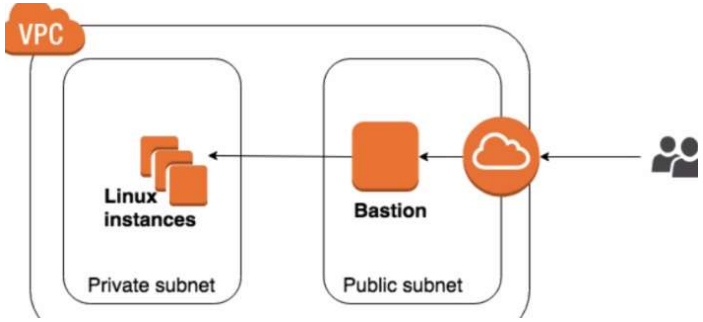
EC2 Launch Issues	**Instance Limit Exceeded error** ▪ You have reached the limit on the number of instances you can launch in a Region. ▪ AWS sets default limits on the number of instances you can run on a per-region basis – 20 by default. ▪ You can request an increase on a per-region basis. **Insufficient Instance Capacity error** ▪ AWS does not currently have enough available On-Demand capacity to service your request.
EBS Volumes & IOPS	▪ IOPS (Input/output Operations per second) used to benchmark performance for SSD volumes. ▪ IOPS is dependent on the size of your volume. ▪ If your workload is hitting the IOPS limit for your volume: 1. Increase the volume size - (Only works if your gp2 volume is < 5.2TB) 2. Change to Provisioned IOPS if your gp2 volume is 5.2TB or greater, or you need more than 16k IOPS.
Bastion Host	 ▪ It is a host connected to a Public subnet. ▪ You can connect to it over the internet. ▪ Used to securely connect to instances in a Private subnet. ▪ Allows you to safely administer your EC2 instances without exposing them to the Internet. ▪ For incoming SSH/RDP only. ▪ Does not enable outgoing requests, e.g. internet access for your instances.
Elastic Load Balancer (ELB)	**3 Types of Load Balancer** ▪ Application Load Balancer. ▪ Network Load Balancer. ▪ Classic Load Balancer.

	Static IP addresses can be provided by a Network Load Balancer, 1 per subnet.
ELB Error Messages	▪ 4xx - Client side error ▪ 5xx – Server side error
ELB Cloud Watch	▪ Load Balancer Metrics are published to CloudWatch. ▪ You can create a CloudWatch alarm to send you a notification if a certain metric reaches a user defined limit. **Types of Metrics** ▪ Metrics for general health (Healthy Host Count, HTTP Code etc.). ▪ Metrics for performance (Latency, Request Count etc.).
System Manager	System Manager is used to give visibility and control over your AWS infrastructure. Integrates with CloudWatch dashboards. Allows you to organize your inventory and logically group resources together. Run Command enables to you to perform common operational tasks on groups of instances simultaneously without needing log in to each one.