Auto Scaling

- Setup processing instances dynamically
 - Respoding to workload
 - o Provisioning new when demand is spiky, Terminating old when demand is low brigs up savings

Auto scaling schemes

- Maintain current instance level
 - Steady state workload
 - Automatically performs health check
 - Specify minimum number of instances
- Manual
 - Specify Max / Min and desired
 - o Suitable for Infrequent event launching a new game -reg website
- Scheduled
 - Monthly, quarterly load
 - Scheduling decisions made as a function of date/time
 - Suitable for Recurring workload
- Dynamic
 - Define params that control scheduling decision
 - N/w bandwidth or cpu usage monitored by CW

Autoscaling Components

- Launch configuration
 - o components name, ami , security group, keypair , (bid price)
 - o 100 autoscale configs per account by default
 - o but only 20 instances ec2 of one configuration
- Autoscaling group
 - It has configuraration options
 - AG name, Min, max ,desired #, az (can be multiple), load balancer
 - o On-demand (default) or spot instance
 - Spacify spot instance price in config options
 - Rest works same.
 - Create new configuration with new bid price and attach to your scaling price
- Scaling policy
 - Associate cloud watch alarm
 - When triggered it executes policy and then launches or terminates instances
 - Scale out quickly but scale in slowly
 - Scale in cant be done quickly
 - Workload burst can cause quick scale out
 - When burst is NOT sustained scale in should not happen quickly
 - Cooldown

•	After scale poicy action is taken, this is a "pause" that is added before next scaling operation
	can begin.