**Config**

* Config is a fully managed service that provides you with an AWS resource inventory, configuration history and configuration change notifications to enable security and governance
* With Config you can discover existing AWS resources, export a complete inventory of your AWS resources with all configuration details, and etermine how a resoure was configured at any point in time
* These capabilities enable compliance autiding, security analysis, resource change tracking and troubleshooting
* Allow you to assess, audit and evaluate configurations of your AWS resources
* Very useful for Configuration Management as part of an ITIL program
* Creates a baseline of various configuration settings and files and can then track variations against that baselilne
* **AWS Config vs CloudTrail**
  + CT records user API activity on your account and allows you to access information about this activity
  + Config records point-in-time configuration details for your AWS resources as Configuration Items(Cis)
  + **You can use an AWS Config CI to answer ‘What did my AWS resource look like at a point in time?’**
  + **You can use CT to answer ‘Who made an API call to modify this resource?’**
* **Config Rules**
  + A Config Rule represents desired configurations for a resource and is evaluated against configuration changes on the relevant resources, as recorded by AWS Config
  + AWS Config Rules can check resources for cetain desired conditions and if violations are found the resouces are flagged as ‘noncompliant’
  + Examples of Config Rules:
    - Is backup enabled on RDS?
    - Is CT enabled on the AWS account?
    - Are EBS volumes encrypted?
* **Configuration Items**
  + A Configuration Item(CI) is the configuration of a resource at a given point-in-time. A CI consists of 5 sections:
    - Basic information about the resource that is common across different resource types
    - Configuration data specifi to the resource(e.g.EC2 instance type)
    - Map of relationships with other resources(e.g., EC2::Volume is ‘attached to instacne’ EC2 Instace)
* **Charges**
  + With AWS Config you are charged based on the number of configuration items(CIs) recorded for supported resources in your AWS account
  + AWS Config creates a configuration item whenever it detects a change to a resource type that it is recording