# Management Tools

Understand the various AWS management tools and how they can be used. What is covered here - Cloud Watch, Cloud Trails, Service Catalog, Systems Manager, Trusted Advisor.

AWS Management Tools consist of -

1. Cloud Watch
2. Cloud Trails
3. Service Catalog
4. Systems Manager
5. Trusted Advisor

Cloud Watch is a monitoring and management service built for developers, system operators, site reliability engineers (SRE), and IT managers. CloudWatch provides you with data and actionable insights to monitor your applications, understand and respond to system-wide performance changes, optimize resource utilization, and get a unified view of operational health.
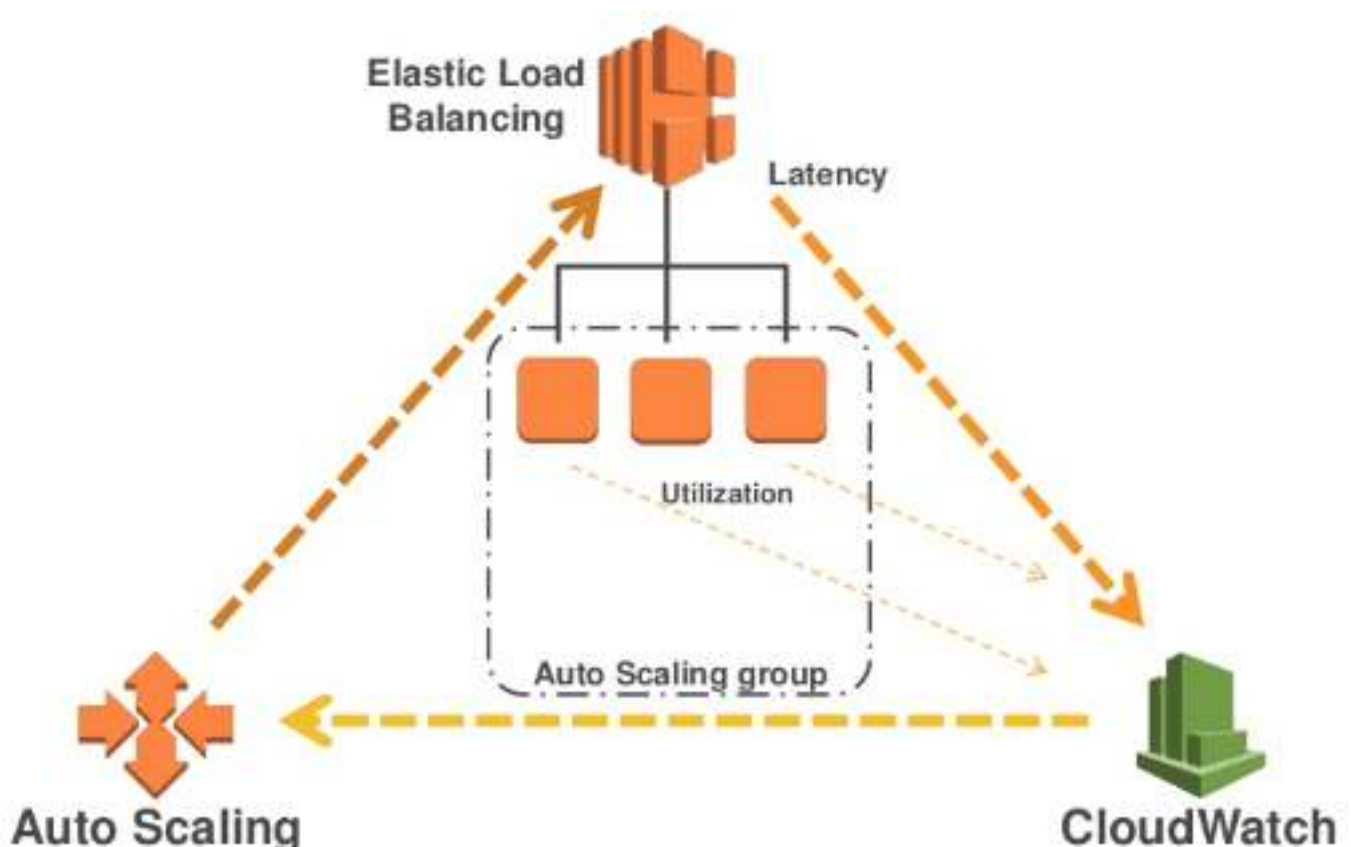
Amazon CloudWatch Architecture
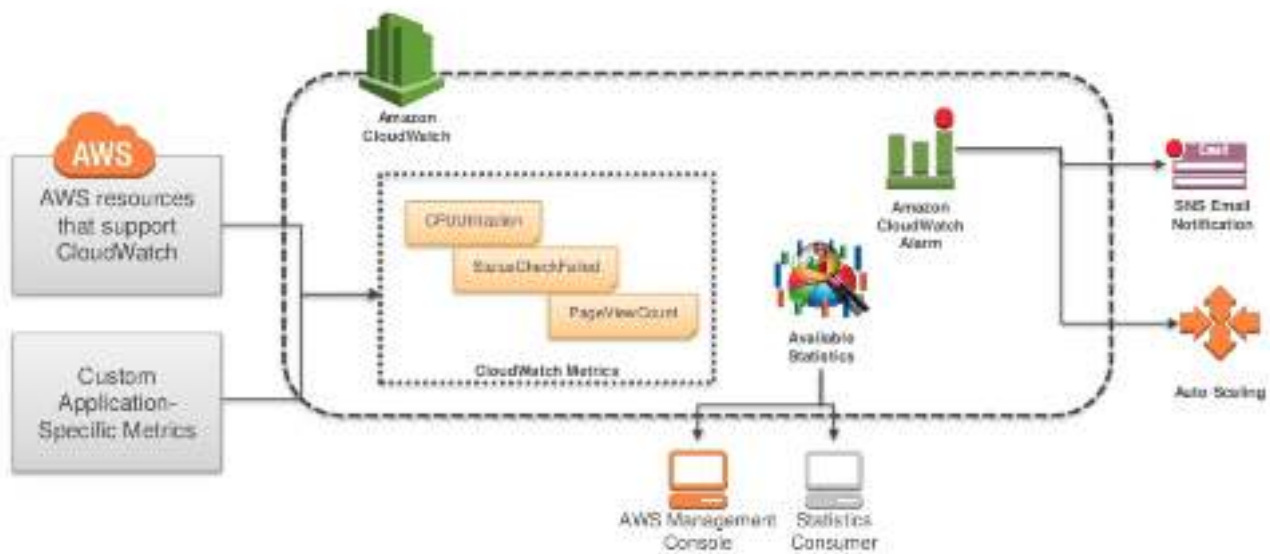
Cloud Formation is a way of scripting infrastructure deployments. Think of a way to that you can script out all the infrastructure you need and then with a click of a button cloud formation will deploy it all for you. Even if you want to deploy multiple environments you can essentially replicate environments using cloud formation.

Most teams check in their scripts into source control so that they have a re-usable script to deploy infrastructure.

Cloud Trail creates a trail or a log of everything any user does inside of AWS. This stores records of every action carried out by the user for 1 week.

Config service monitors the configuration of your AWS environment with a point in time snapshots.

Ops works uses both Chef and Puppet in a way to automate your environments.

Service Catalog is used to manage a catalog of IT services for use within most enterprises. If you work at a large enterprise this service gives the you an approved a set of images, tools, a database that has been vetted for use within your enterprise.

Systems Manager is used primarily to roll out patches across your entire fleet of machines. It also is used to group all your resources by different

departments or applications thereby helping in patching and maintenance.

Trusted Advisor gives the users advice across different disciplines like security they can use etc.