Different between cloud watch and cloud trail?

Both are the monitor tools but one is for triggering the alert and take action like environment scale up/down and another is audit purpose and which will store on S3 you analyses the issues reslutions.

|  |  |
| --- | --- |
| cloud watch | cloud trail |
| Monitoring service for aws services | Note the Activity of your application and Logs |
| Normally used for CPU utilization ,disk space high/low ,network related | Normally used for API calls and there audit purpose  like who logged and what is the Action taken like that |
| set alarms to help you troubleshoot and take automated action  based on the state of your cloud environment | it will stores in S3 locations |

Trusted source in AWS

ANS: It is best practice guidance tool which provided by AWS help us to reduce by COST ,performance ,security, availability ( fault tolerance like auto scaling ), service limits .

It provides below support but it will come with price through AWS support /enterprise

1. 6 security checks (S3 Bucket Permissions, Security Groups - Specific Ports Unrestricted, IAM Use, MFA on Root Account, EBS Public Snapshots, RDS Public Snapshots)
2. 50 service limit checks.
3. 115 Trusted Advisor checks (14 cost optimization, 17 security, 24 fault tolerance, 10 performance, and 50 service limits) and recommendations.

What is diff b/n cI , CDeliveray and deployment ?

CI : Make sure Code commits (all the development code merge and commit) ,unit testing integration testing and also after before code changes and after system.

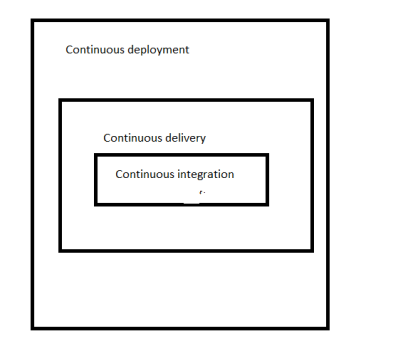
All the developer code should merg to release branch with automated testing

CDel: Make sure that deployment testing environment and acceptable testing complete and code is ready to release production.

By one click you can automatically deployed the testing code production

CDepl:

Make sure one click the all futures of code which customer are expecting should deployed to all the servers. This release you can go by automation or on demand also you can release. Some future you want release on specific occasion like black Friday or Diwali season some special futures.



Q) What is pipeline in Jenkins, Few scenario questions?

ANS: GITCODE commit🡪Jenkins start🡪 kick testing jobs to validate (sonar) 🡪if fails send back to developers

🡪if success commit to release branch 🡪 this Branch will deployed to QA and Integration testing(git clone) 🡪 once done push the code to production release Branch (git push) 🡪 link to Jira ticket and Change order approval (HPSM or service now) it will click the one more Jenkin job which will deployed the code to all servers (using chef/Anisble/puppet).

Q) What is cloudformation?

Ans: It is AWS service which allows us to create stack like EC2,VPC or other third party service in one template ,In this Mandatory section is resource .

Q) AWS IAM related some scenario question which permission you will give  
Ans:

Identity and Access Management (IAM) allow us to control the Access of all AWS resources like You can create and mange the AWS users and groups and allowing use permission allow/deny

Granting applications that run on Amazon EC2 instances access to AWS resources, creating the Different groups, providing Cross-account access, Granting permissions to AWS services, SSO authentication

Q) how you will communicate cross region  by using vpc?

**Ans:** you can create a VPC peering connection between your own VPCs, or with a VPC in another AWS account. The VPCs can be in different regions (also known as an inter-region VPC peering connection). Peering Connections -> Create Peering Connection:

3 section

1. peering connections
2. select a local VPC to peer with ,
3. Select another VPC to peer with

Go to local VPC and routes tab make Ensure that the route table associated with Subnet A was configured to send traffic destined

**VPC can communicate with each other as if they are within the same network**

**18 geographically distinct regions allowing 4 yet to come in future .**

Q)how many cross regions currently

Ans: 18   
Q) what are the parameter in the cloud formation when the json/Yamla format

 ANS:

"Description" : "JSON string",

"Metadata" : { template metadata },

"Parameters" : { set of parameters },

"Mappings" : { set of mappings },

"Conditions" : { set of conditions },

"Transform" : { set of transforms },

"Resources" : { set of resources },Mandatory

"Outputs" : { set of outputs }

Q) AWS Well-Architected 5 pillars

1. Operational Excellence : manage daily operations without interrupts , include automating changes and focuses on running and monitoring systems to deliver business value
2. Security : Protecting information and systems, identifying and managing who can do what
3. Reliability : prevent Damage on system and how quick we can recovery , recovery planning, and how to handle change
4. Performance Efficiency : computing resources efficiently right resource types and sizes based on workload requirements, monitoring performance, and making informed decisions to maintain efficiency
5. Cost Optimization : avoiding unnecessary costs, where money is being spent,select right resource type and size

Q) Load Balancers

Ans: 3 types

1. **Application load Balancer :** HTTP and HTTPS traffic and provides advanced request routing targeted at the delivery of modern application architectures, including microservices and containers
2. **Network load Balancer :** Routing connections to targets - Amazon EC2 instances,Load Balancing of the networking protocols Transmission Control Protocol (TCP), User Datagram Protocol (UDP) and Transport Layer Security (TLS) traffic where extreme performance is required.
3. **Classic Load Balancer :** Classic Load Balancer provides basic load balancing across multiple Amazon EC2 instances and operates at both the request level and connection level.

Q) intent of Gate way,it will be intend to connect only private network.

Ans: No it intent to provide public facing application ,it enable us user can come and connect to our network.

Q) Does it require SSH certificates for application Load balancers?

Ans: in Load Balancer we will provide the Outbound and inbound rules will allow to redirect traffic,but to communicate we need KMS (java key Management systems)

Q) What is ECS?

Amazon Elastic Container Service (Amazon ECS) is a fully managed container orchestration service,it is server less compute for containers,it is a virtual mission preinstalled Docker.

It handles installing containers, scaling, monitoring, and managing these instances through both an API and the AWS Management Console’

Q) what is VPC and types?

Virtual private cloud and 2 types and private and public types.

What is git strash   
How you will resolve conflicts

what are ansible handler  
what is the objective of configuration management comes into picture  
suppose i have 10 windows machine and 10 linux machine we have patching activity and we are performing the patching by using ansible    
how you will perform activity and in windows machine trying to deploy and we are getting error how you will handle  
how you will communicate ssh connection to client side in the ansible server

best practices for devops implemtation   
Suppose you are lead how you will implement and how you will communicate if we get  new project   
what is truckbase devlopment