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DT/NT : NT
LESSON : AWS
SUBJECT: AWS CONFIG, CLOUDTRAIL, ETC

BATCH : B 303

AWS-DEVOPS



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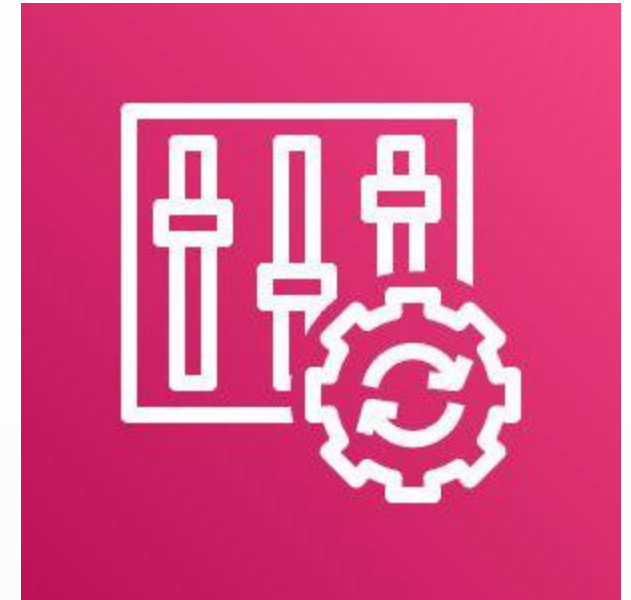


AWS Config

- AWS Config continually assesses, audits, and evaluates the configurations and relationships of your resources on AWS, on premises, and on other clouds.
- It records the configuration of resources in your account.
- It checks if the configurations comply with the rules.
- It can store the results in S3.
- It can send alerts

AWS Config can answer questions like:

- Is there unrestricted SSH access on Security Groups?
- are S3 buckets publicly accessible?



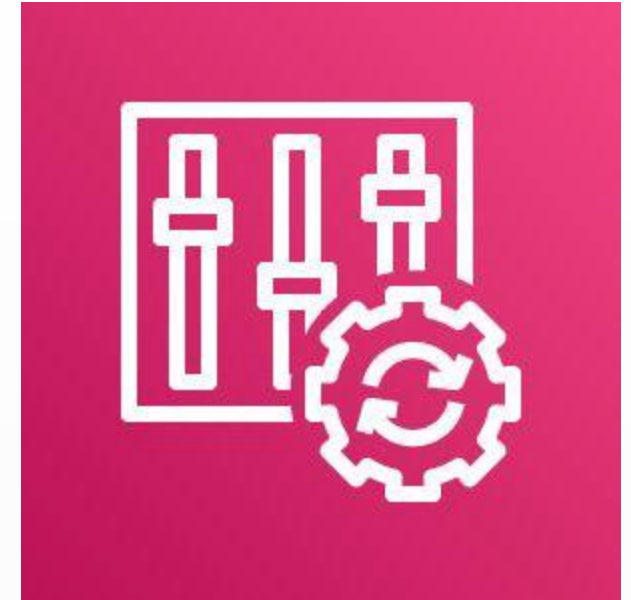
AWS Config

Key Features:

- Inventory
- Change Tracking
- Compliance Checks
- Notifications

Why Use AWS Config?

- Audit
- Security
- Optimization
- Troubleshooting



AWS CloudTrail

- AWS CloudTrail provides visibility into user activity by recording actions taken on your account. CloudTrail records important information about each action, including who made the request, the services used, the actions performed, parameters for the actions, and the response elements returned by the AWS service.
- It is enabled by default.
- It can store the results in S3 or CloudWatch logs.
- It can send alerts.

AWS Config can answer questions like:

- who changed SSH access on Security Groups?
- who changed S3 buckets publicly accessible?



Config-CloudTrail-CloudWatch

- Think of a Load Balancer
 - CloudWatch deals with
 - incoming connection metrics
 - visualizing error codes
 - AWS Config deals with
 - tracking Security Group rules for LB
 - tracking config changes for LB
 - ensure a TLS/SSL certificate is assigned to LB (compliance)
 - CloudTrail deals with
 - tracking who made any changes to LB with API calls

Solution Architect Cases

1

Siz bir yapılandırma değişikliği yaptınız ve bu değişikliğin uygulamanızın performansına etkisini değerlendirmek istiyorsunuz. Hangi AWS hizmetini kullanmalısınız? CloudWatch, CloudTrail?

CloudWatch

2

Birisi AWS hesabınızdaki EC2 örneğini geçen hafta sona erdirdi. Bu örnek hassas veriler içeren kritik bir veritabanını barındırıyordu.

Bu eylemi kimin yaptığını ve ne zaman yaptığını bulmanıza yardımcı olan AWS hizmeti hangisidir? CloudWatch, Config, CloudTrail.

CloudTrail

3

Port 84 üzerinde bilinen bir güvenlik açığına sahip bir işletim sistemini kullanan EC2 örnekleriyle bir web sitesi çalıştırıyorsunuz.

EC2 örneklerinizin port 84'ünün sürekli olarak açık olup olmadığını izlemek istiyorsunuz. Bunun için nasıl bir yol izlemelisiniz? Setup CloudWatch Metrics, Setup CloudTrail Trails, Setup Config Rules

Setup Config Rules

AWS Trusted Advisor

- AWS Trusted Advisor provide recommendations across multiple categories, including cost optimization and security. These recommendations help you follow AWS best practices to optimize your services and resources.
- If you have a Basic or Developer Support plan, you can use the Trusted Advisor console to access all checks in the Service Limits category and six checks in the Security category.



AWS Shield

- AWS Shield protects from DDoS attacks.
 - Shield Standard: Free for AWS customers
 - Shield Advanced



AWS WAF

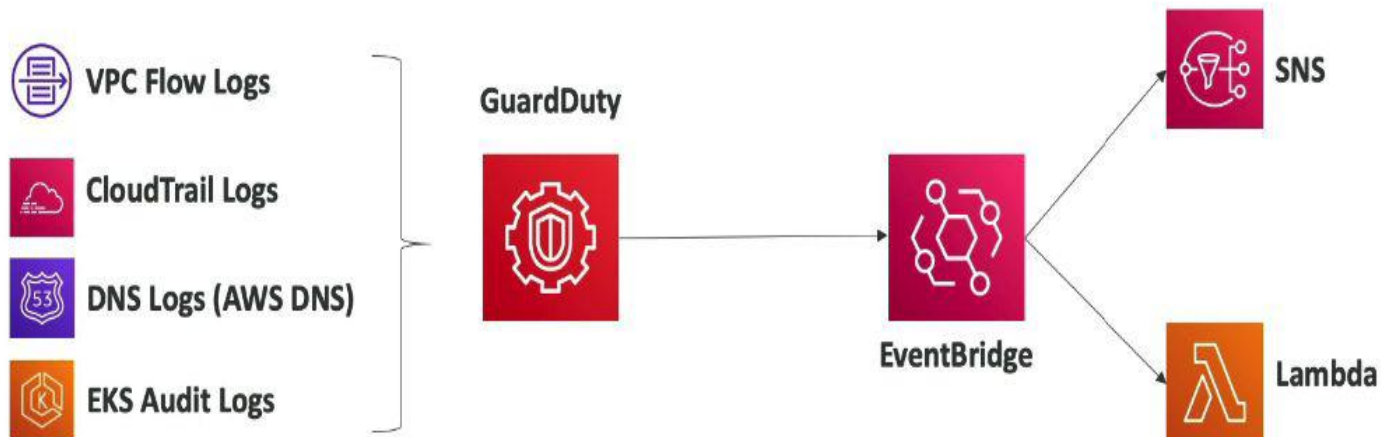
- AWS WAF is a web application firewall service .
- helps protect web applications from various attacks by filtering and monitoring HTTP/HTTPS traffic between a web application and the Internet.
- It gives you control over which traffic to allow or block to your applications by defining customizable web security rules.



**AWS Web Application
Firewall**

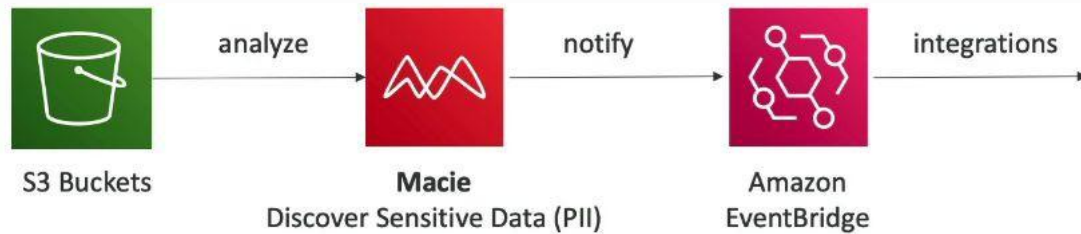
Amazon GuardDuty

- Intelligent threat discovery.
- Uses machine learning
- Can protect against CryptoCurrency attacks
- Input data:
 - CloudTrail Logs
 - VPC Flow Logs
 - DNS Logs
 - Kubernetes Audit Logs



Amazon Macie

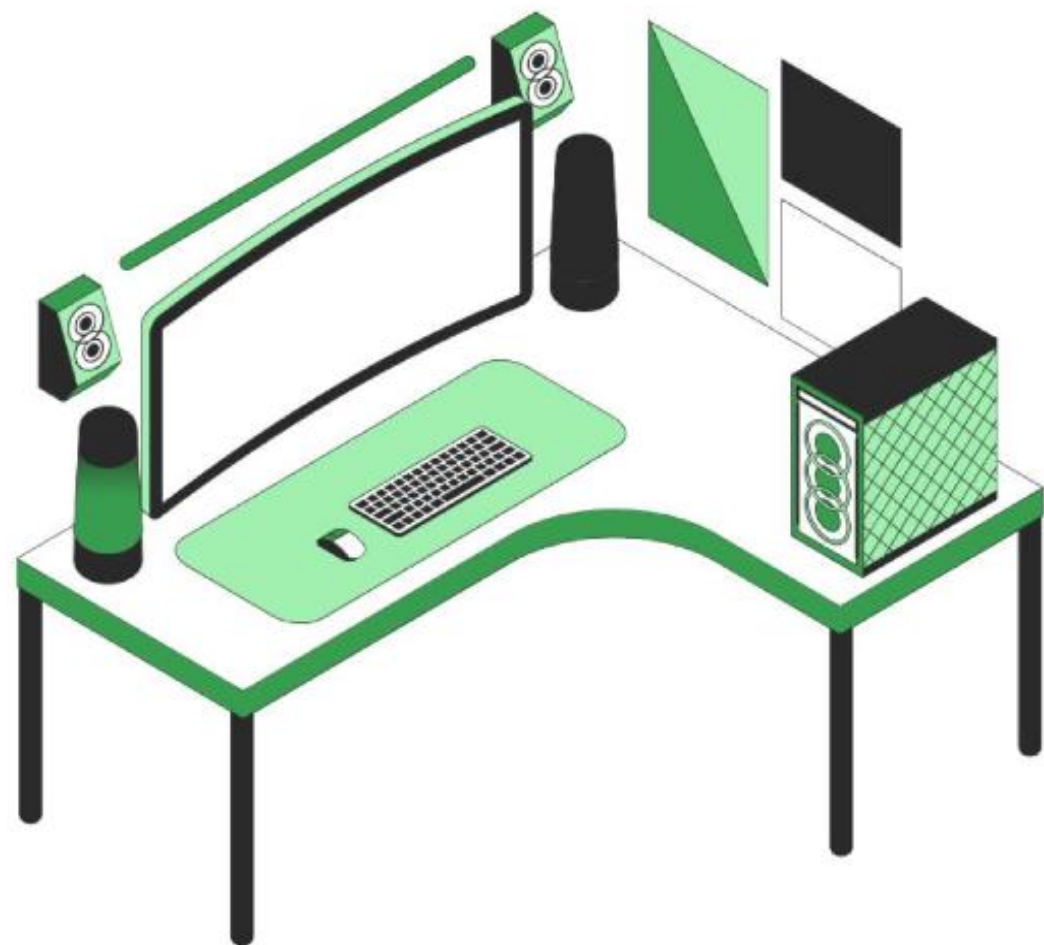
- Fully managed data security and data privacy service.
- Uses machine learning and pattern matching.
- Discovers and protects sensitive data.



AWS Cost Explorer

- AWS Cost Explorer is a tool that enables you to visualize, understand, and manage your AWS costs and usage over time.
- It's part of the AWS Cost Management suite.
- Offers graphs and tables to help you analyze your AWS spending.
- You can filter by services, accounts, tags, and more to break down your expenses.
- You can access Cost Explorer data programmatically via API for further analysis.





Do you have any questions?

Send it to us! We hope you learned something new.