

Detection Techniques for Identifying **AWS IAM Targeted Attacks**



About CyberWarFare Labs :

CW Labs is a renowned UK based Ed-tech company specializing in cybersecurity cyber range labs. They provide on-demand educational services and recognize the need for continuous adaptation to evolving threats and client requirements. The company has two primary divisions :



INFINITE LEARNING EXPERIENCE

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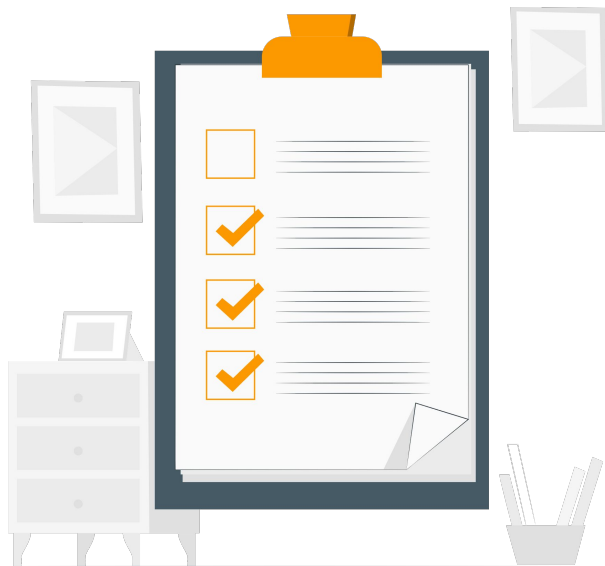
2. Up-Skilling Platform

About Speaker :

Harisuthan S

(Senior Security Engineer)

He Is a Blue Team Security researcher, bringing over 3+ years of experience in cyber defence. possesses a deep understanding of Blue Team methodologies including investigation and detection over cyber attacks,



Agenda

- Basic Introduction about IAM and IAM targeted attacks
- List of Essential AWS services for Safeguarding IAM
- Detection Techniques for Identifying IAM Targeted Attacks
- Conclusion

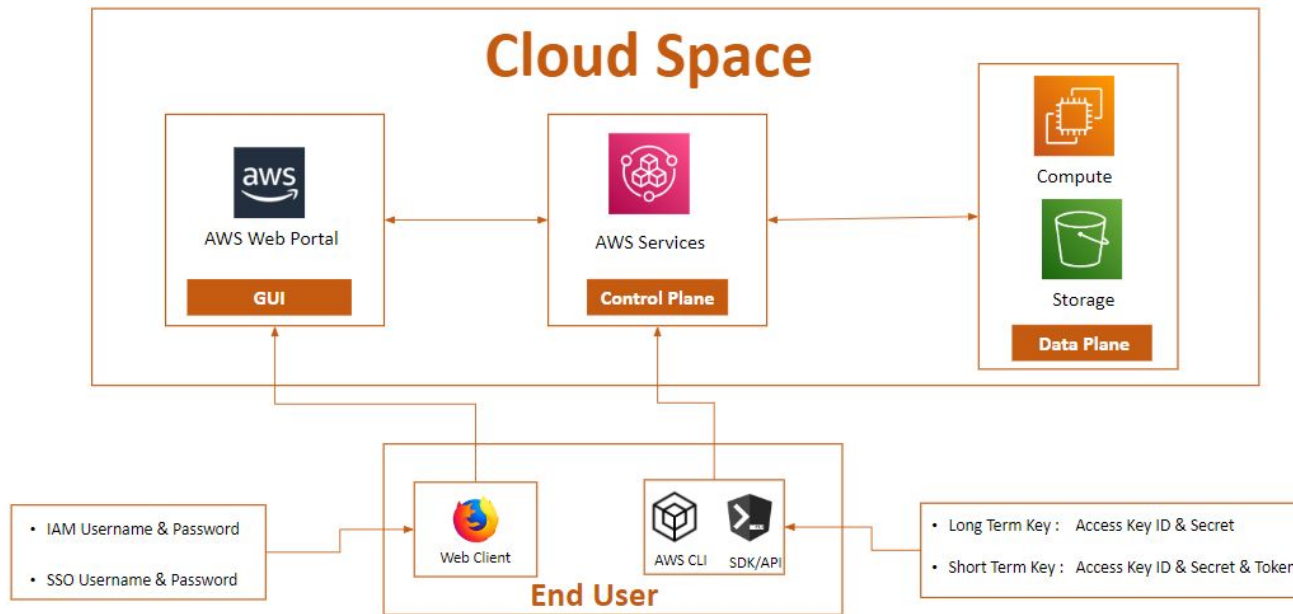
Basic Introduction about AWS IAM Service

AWS IAM : Identity Access Management

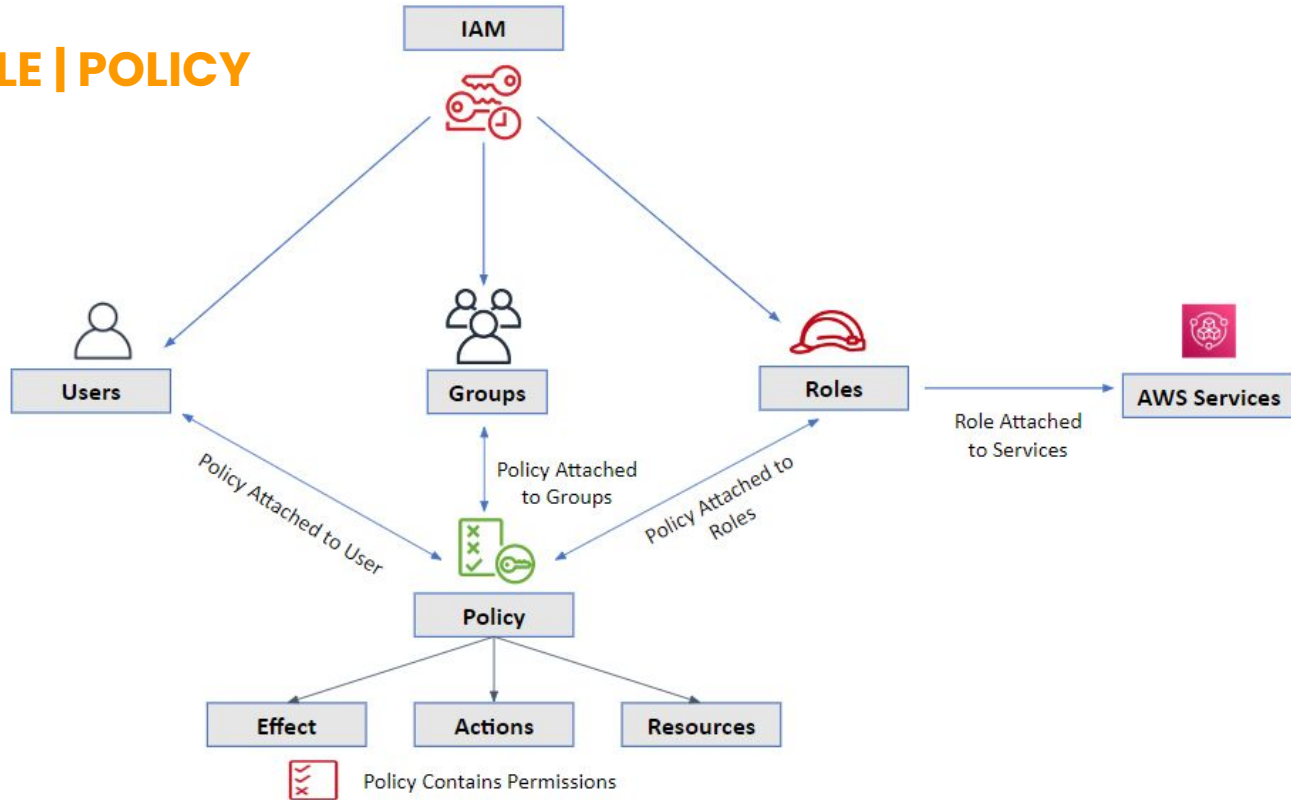
- AWS Identity and Access Management (IAM) is a AWS service that helps you securely control access to AWS resources.
- It allows you to manage users, groups, and permissions, ensuring that only authorized individuals and applications have the necessary access to perform specific tasks. With IAM, you can create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources.
- It supports features like multi-factor authentication (MFA), identity federation, and fine-grained access control, making it a crucial component for maintaining security and compliance in AWS environments



AWS IAM : Identity Access Management



USER | ROLE | POLICY



AWS S3 : Simple Storage Service

1. Investigating Multiple Failed Login Activities
2. Investigating MFA Failed Logged-In activity
3. Investigating suspicious activities of User Granted with Full Privileges



List of AWS services to protect IAM



CloudTrail | S3



Guard Duty



CloudWatch | S3

- CloudTrail
- Guard Duty
- CloudWatch
- AWS Macie
- SIEM

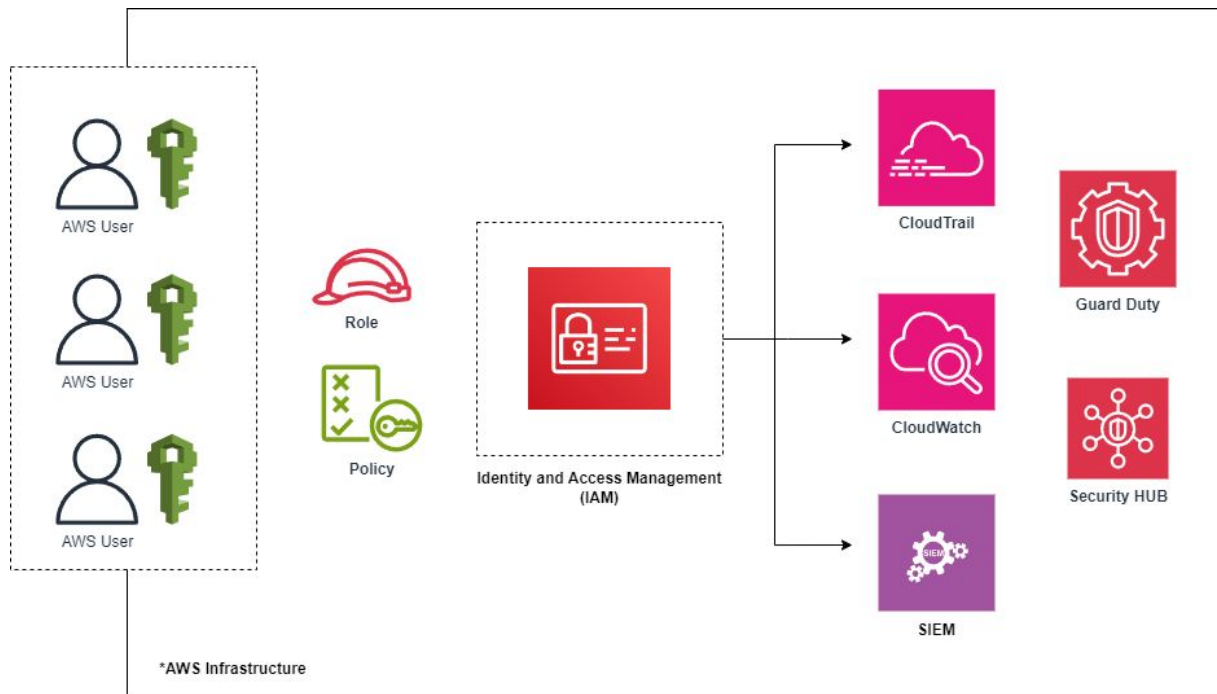


Macie

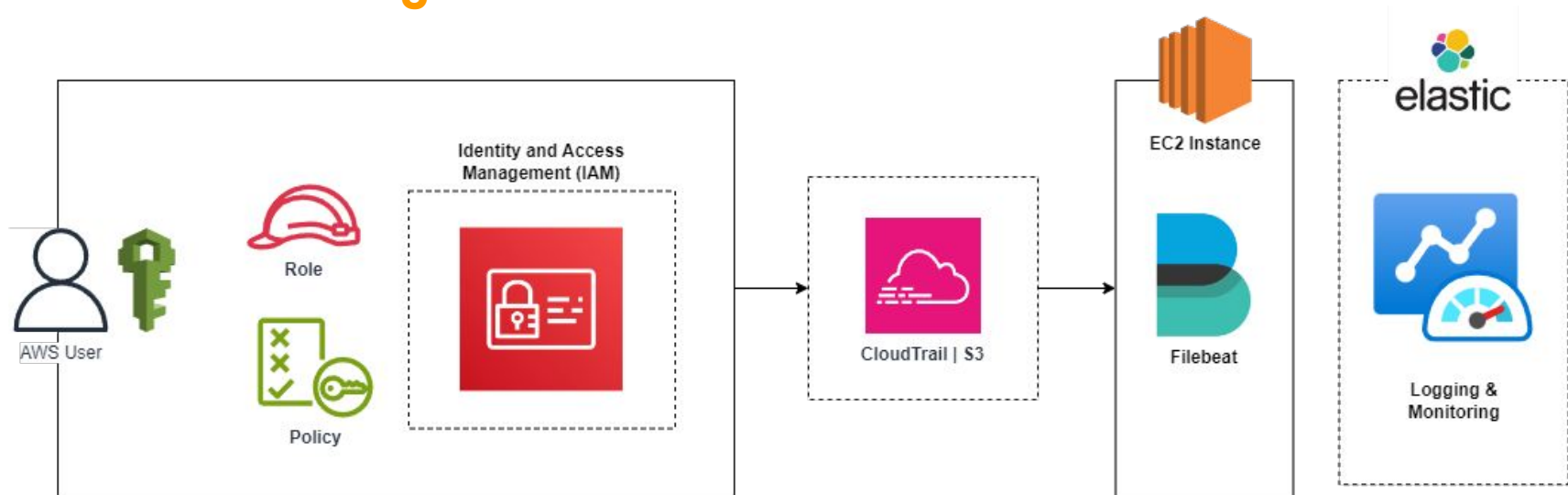


SIEM

Monitoring & Logging AWS IAM

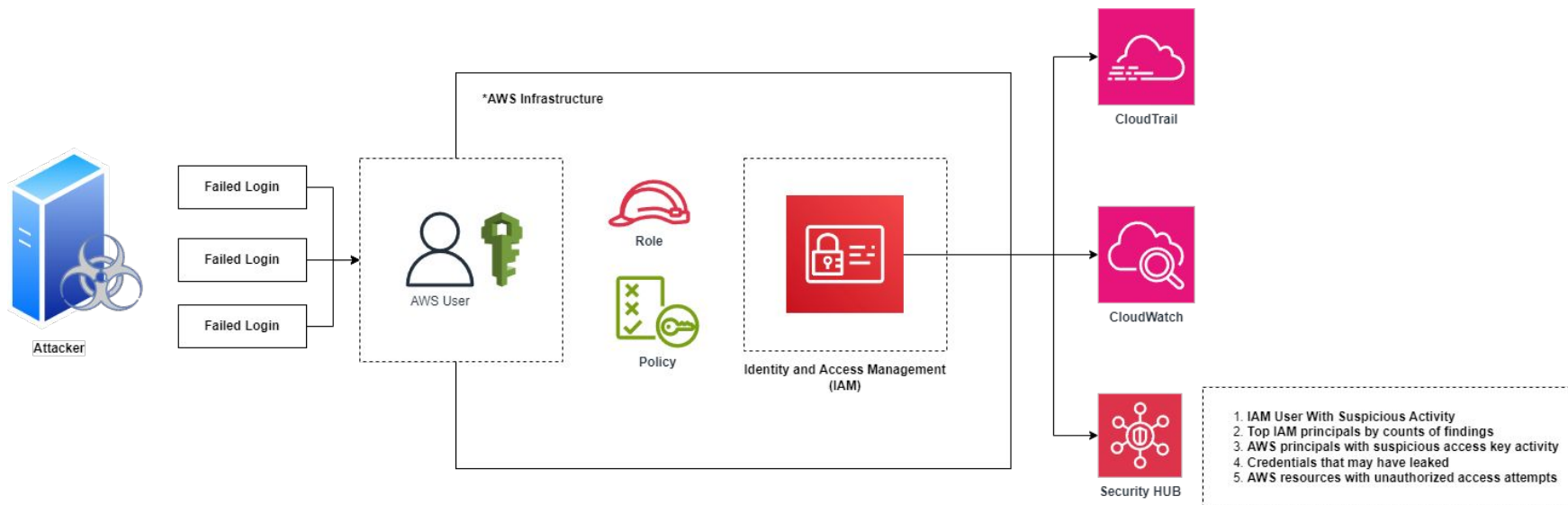


IAM Monitoring Architecture

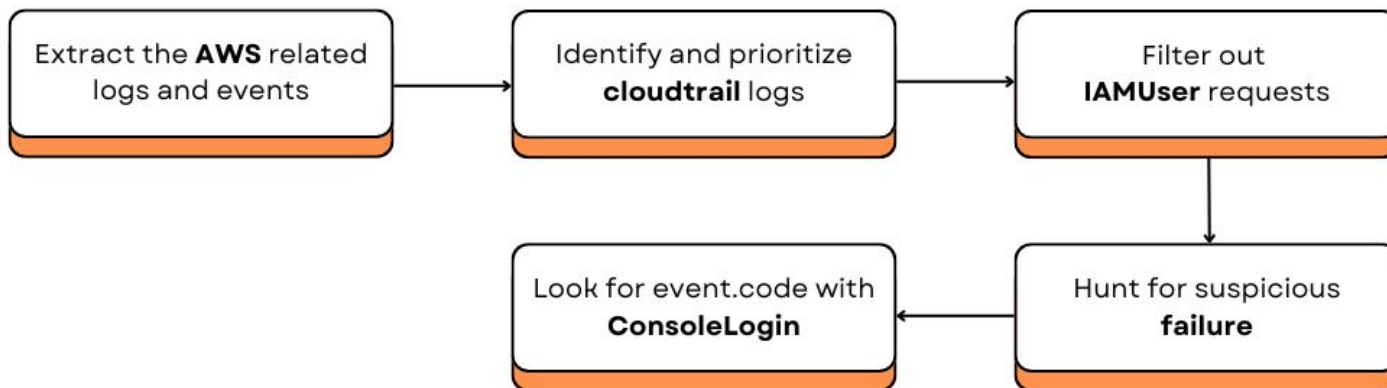


Investigating Multiple Failed Login Activities

Investigating Multiple Failed Login Activities

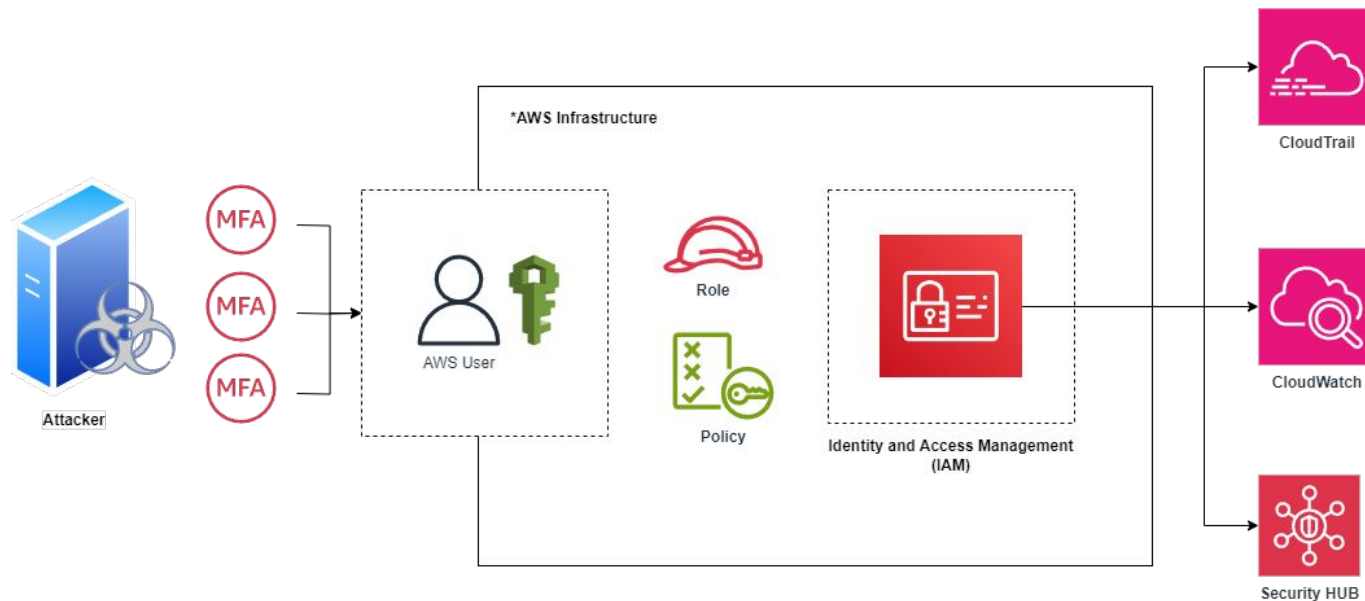


Investigative Mind-Map for Investigating Multiple Failed Login Activities

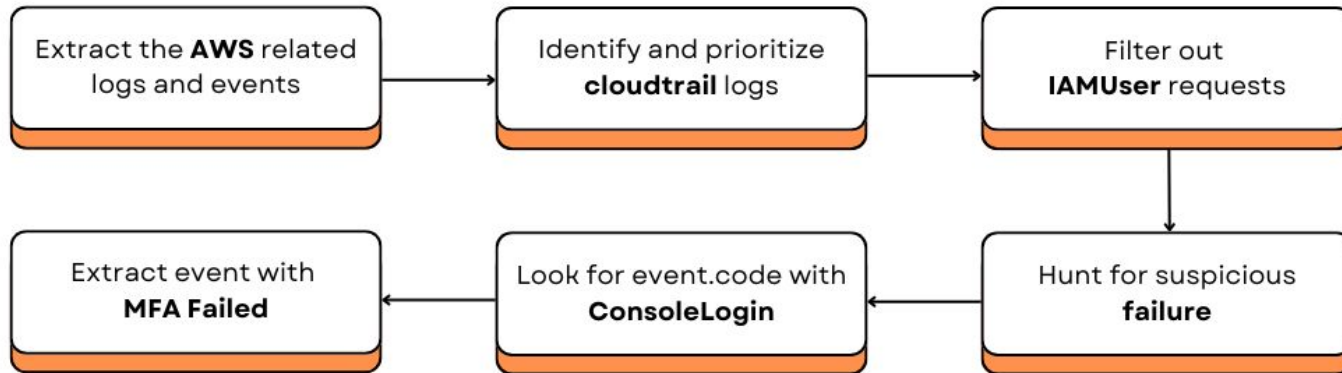


Investigating MFA Failed Login Activities

Investigating MFA Failed Login Activities

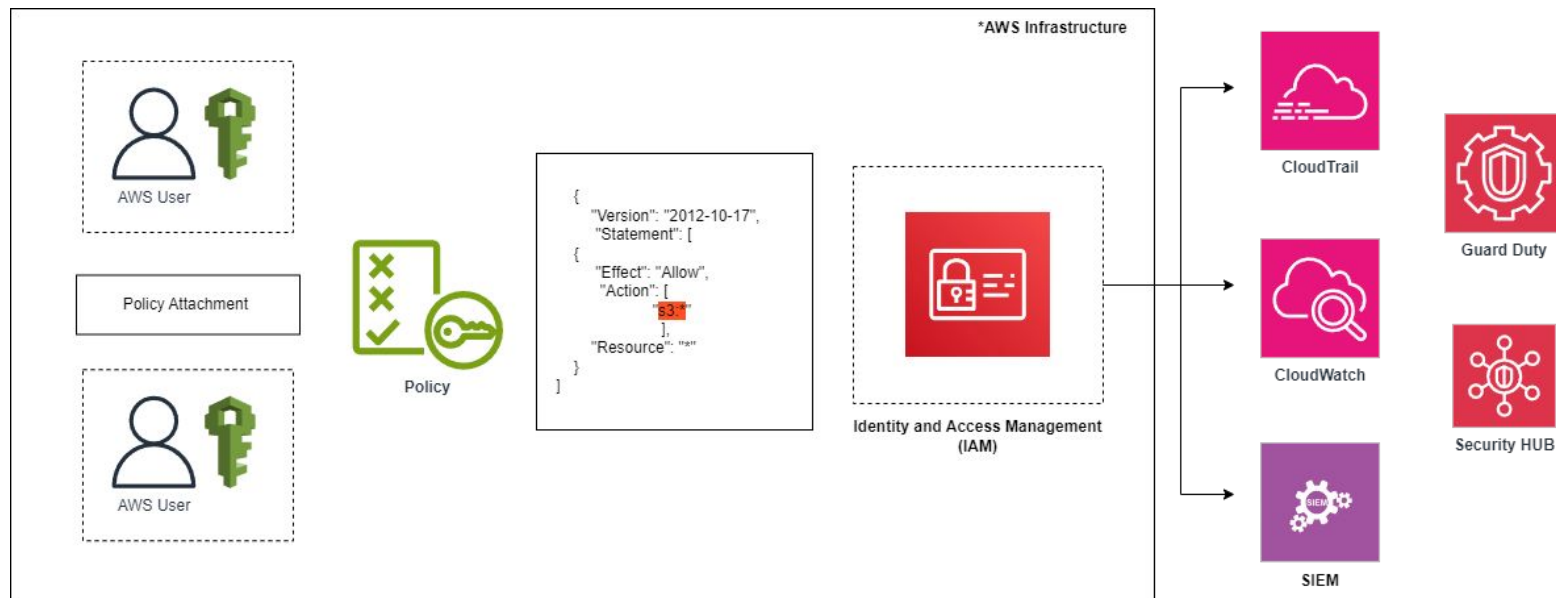


Investigative Mind-Map for Investigating Multiple Failed Login Activities

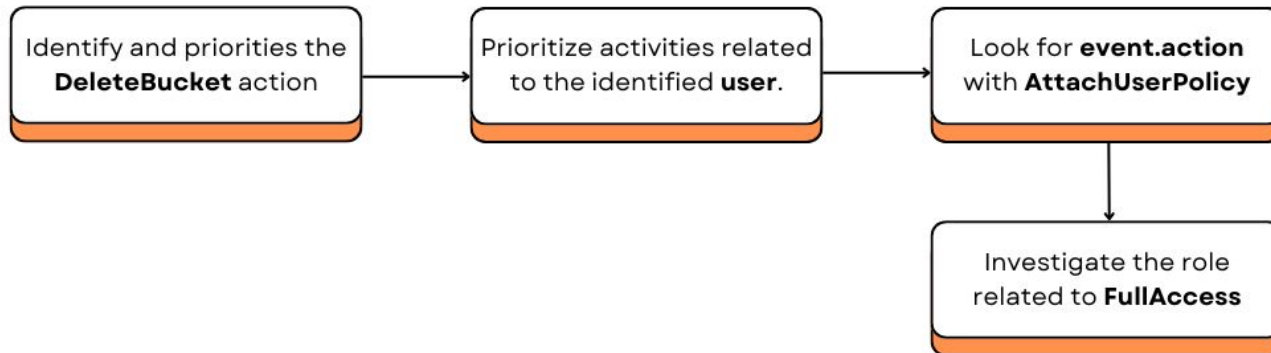


Investigating suspicious activities of User Granted with Full Privileges

Investigating suspicious activities of User Granted with Full Privileges



Investigative Mind-Map for Investigating Multiple Failed Login Activities



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