

Midterm Ops 401d6

Agenda

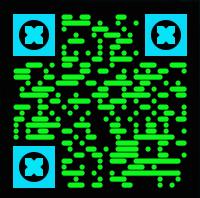


- 1. Team Member Introductions
- 2. Problem Domain & Project
 Overview
- 3. Team Process & Documentation
- 4. Application Demonstration
- 5. Q&A



Dylan Dempsey







- Navy Veteran (STG2)
- Security Clearance
- Real Estate Agent/ Investor
- Expert at identifying risks and opportunities

Dylan Dempsey | LinkedIn

Alexander Echols

- Co Founder of Cyber Guardians
- Cybersecurity Professional
- Physical penetration tester
- ITF+ Certified
- Does various accents



Linked in



Dericus Horner

- US Army Veteran
- Master's degree in Business
 Administration
- Current IT Property Specialist
- Detail Oriented/Critical Thinker







Geneva Knott



- Marine Corps Veteran- 0621
 Communications
- 9 yo LE/Criminal Investigator -Violent
 Crimes w/ Bachelors in Criminal Justice
- working on Associates in Cyber Defense











Anthony G Wall

- -Persistent and Goal Oriented
- Former USMC Infantry team leader
- Licensed and registered Loan officer
- CompTIA ITF+ Certified
- Aspiring cyber security professional





Scan to connect with me on Linkedin:

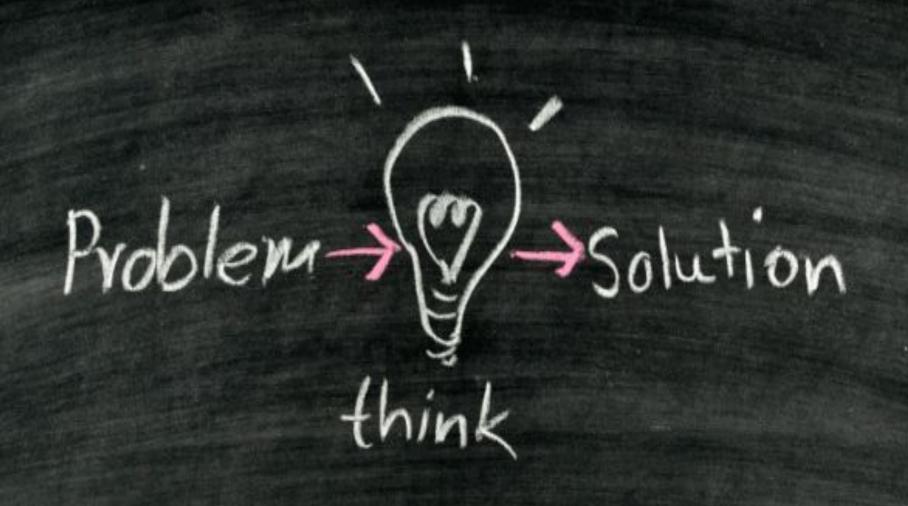


Problem Domain

Cyber Guardians has been contracted to improve the cybersecurity processes and systems for the clients company.

Focuses include:

- Logging-Cloud Trail
- Monitoring-Cloud Watch
- Detection of adversarial activity on cloud infrastructure.





Security systems requirements

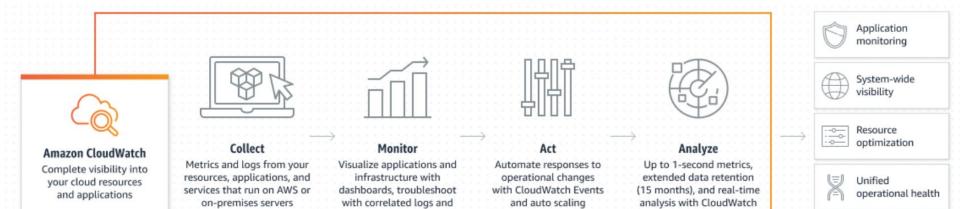
- Identity and Access Management (IAM)
- Network and Infrastructure Security
- Data Protection and Encryption
- Security Monitoring and Incident Response
- Security Auditing and Compliance
- Vulnerability Management and Patching
- Secure Configuration Management



AWS CloudWatch

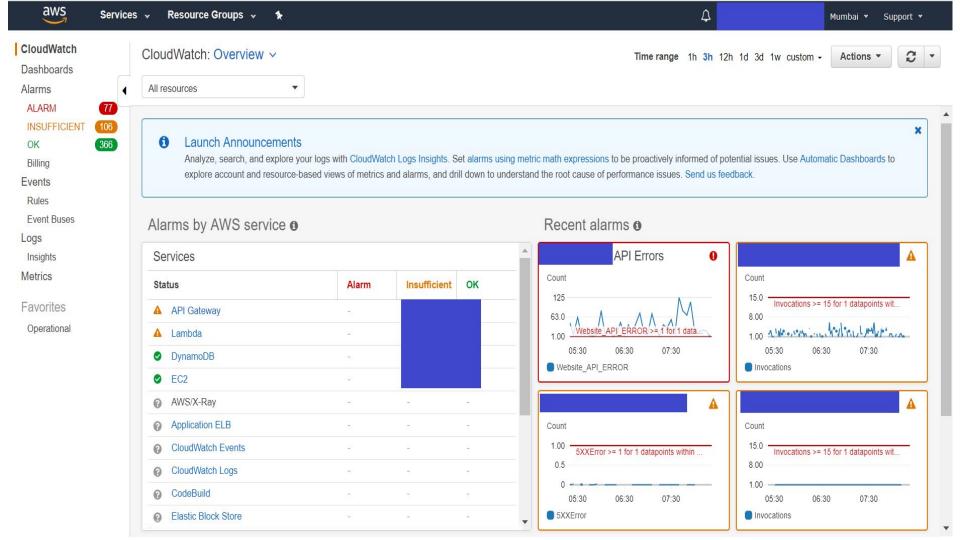


Unified cross-account observability



metric math

metrics, and set alerts





AWS CloudTrail

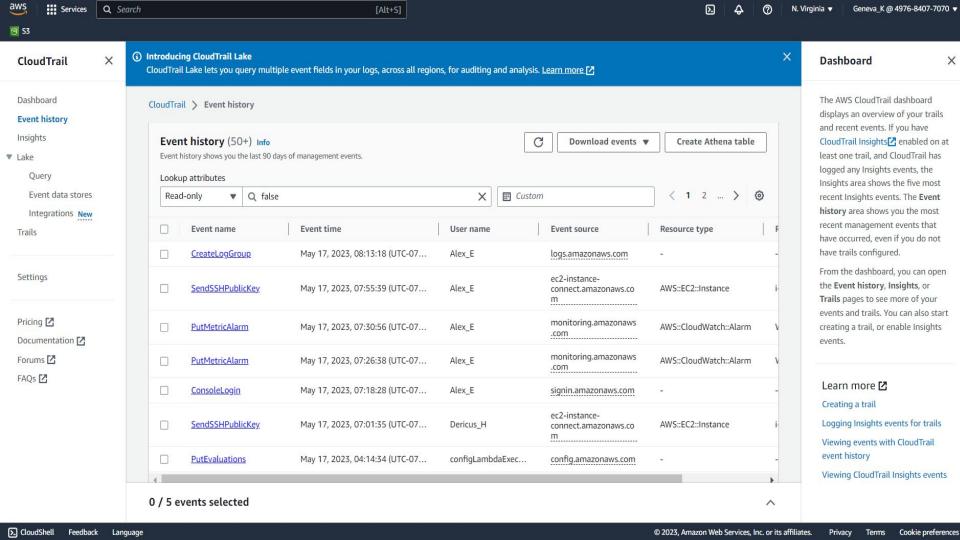


Audit

Operational

Troubleshooting





AWS Lambda

Invoked in Response to the Events

Execute Only When Needed, Automatic Scale

Access Any Service







Dynamo DB S₃ Events

Kinesis



Events





Cloudtrail **Events**



Cognito **Events**



Custom Events



Lambda **Functions**

Any Custom Services



Any AWS Services









Amazon GuardDuty

Amazon GuardDuty is a threat detection service that continuously monitors for malicious or unauthorized behavior to protect your AWS accounts and workloads



Enable GuardDuty

With a few clicks in the console, monitor all your AWS accounts without additional security software or infrastructure to deploy or manage



CloudTrail Logs



VPC Flow Logs



DNS Logs

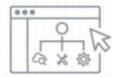
Continuously analyze

Automatically analyze network and account activity at scale, providing broad, continuous monitoring of your AWS accounts



Intelligently detect threats

GuardDuty combines managed rule-sets, threat intelligence from AWS Security and 3rd party intelligence partners, anomaly detection, and ML to intelligently detect malicious or unauthorized behavior



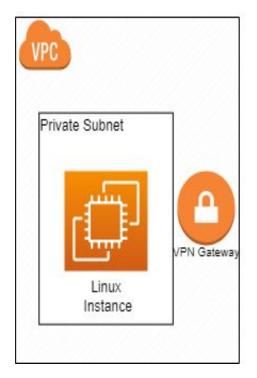
Take action

Review detailed findings in the console, integrate into event management or workflow systems, or trigger AWS Lambda for automated remediation or prevention

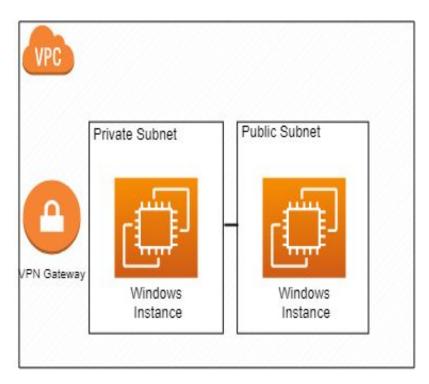


Quick View



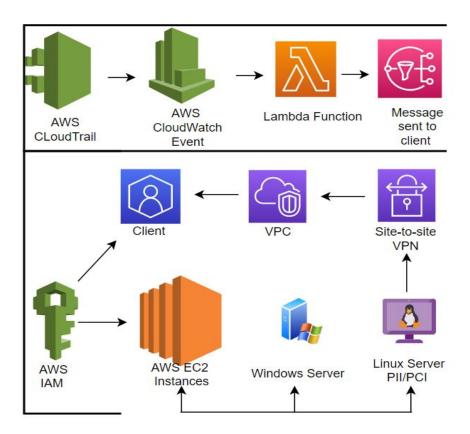














Resources & Thanks

We would like to thank the 401 cohort, to include staff, instructors, TA and peers for collectively helping us grow and learn and all the family members who support us!



















