Chewy GDPR compliance and Data Loss Prevention Project

MID GROUP PROJECT:

401n2

Cyberia Security .

AGENDA

1. Team member Introductions

2. Problem Domain & Project Solution

3. Application Demonstration

4. Documentation

5. Q&A

Team Members Introduction

OUR TEAM

Diogo Figueiredo

“I try every day to become a better version of myself.
I believe that my diverse background in biology and hospitality will make a huge contribution to my aspiring cybersecurity career.”

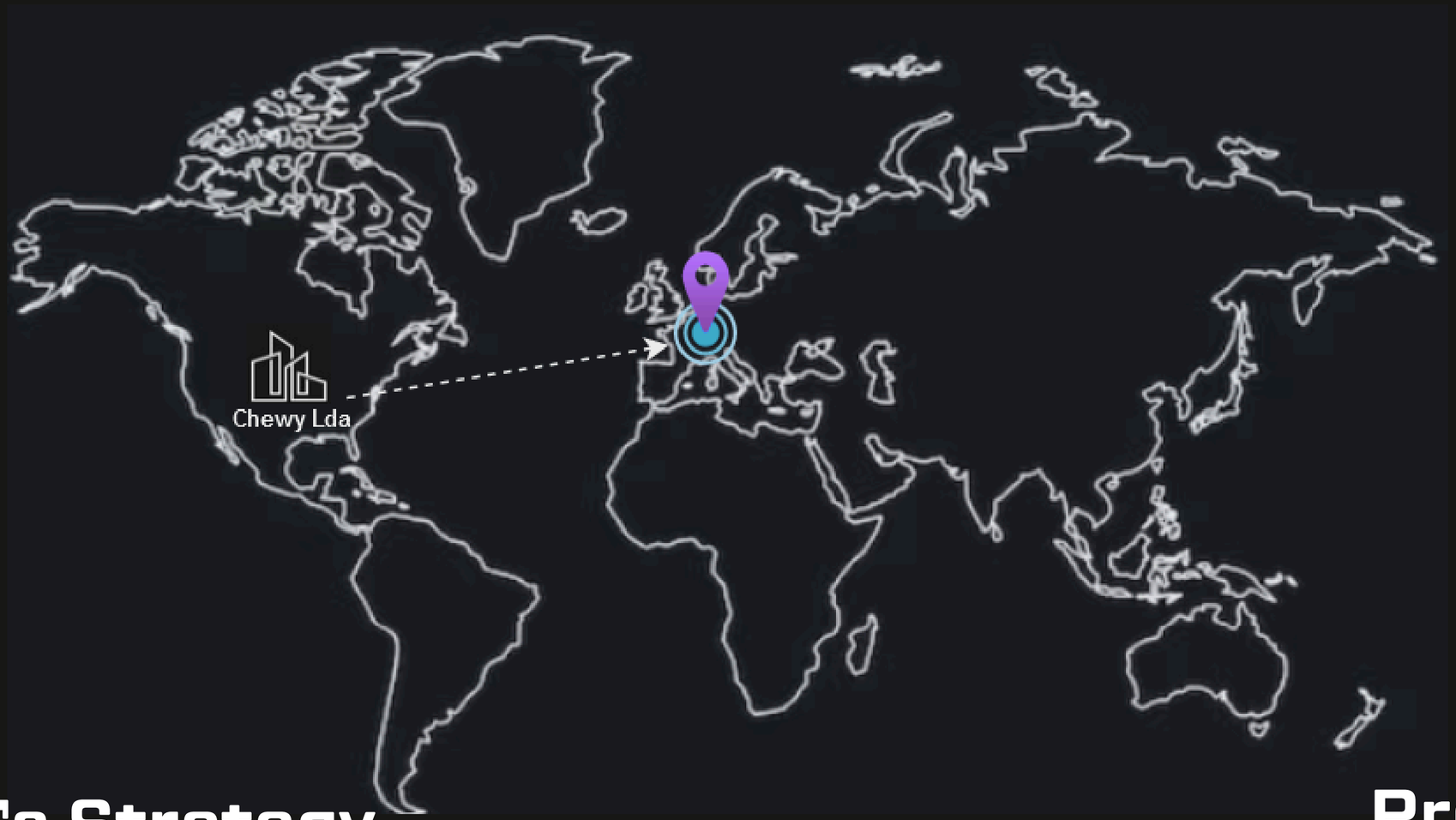
Hélio Ferreira

"I am a cybersecurity enthusiast who's guided by the values of professionalism and good faith. With a background in accounting and insurance, I hope in the future I can use that knowledge in multiple Cybersecurity areas."

Tomás Ferreira

“I specialize in cloud cybersecurity.
I am fascinated about understanding how hackers think and operate.
I believe that by studying their techniques, we can develop more effective defenses.”

Problem Domain



Chewy's Strategy

Sales growth in International markets

Problem

Europe GDPR compliance

Protect PCI/PII Data

PROJECT SOLUTION

Proper IAM Implementation

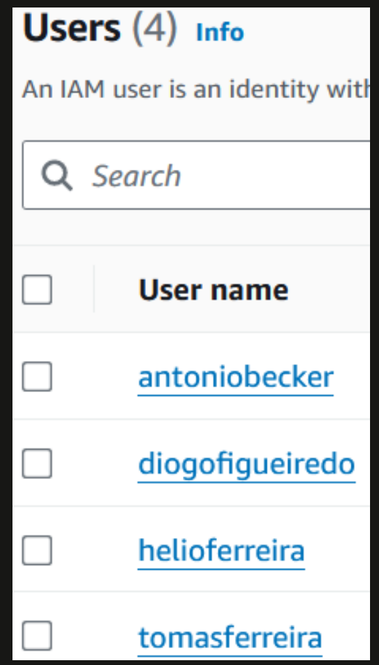
-Create individual IAM users for each team member.

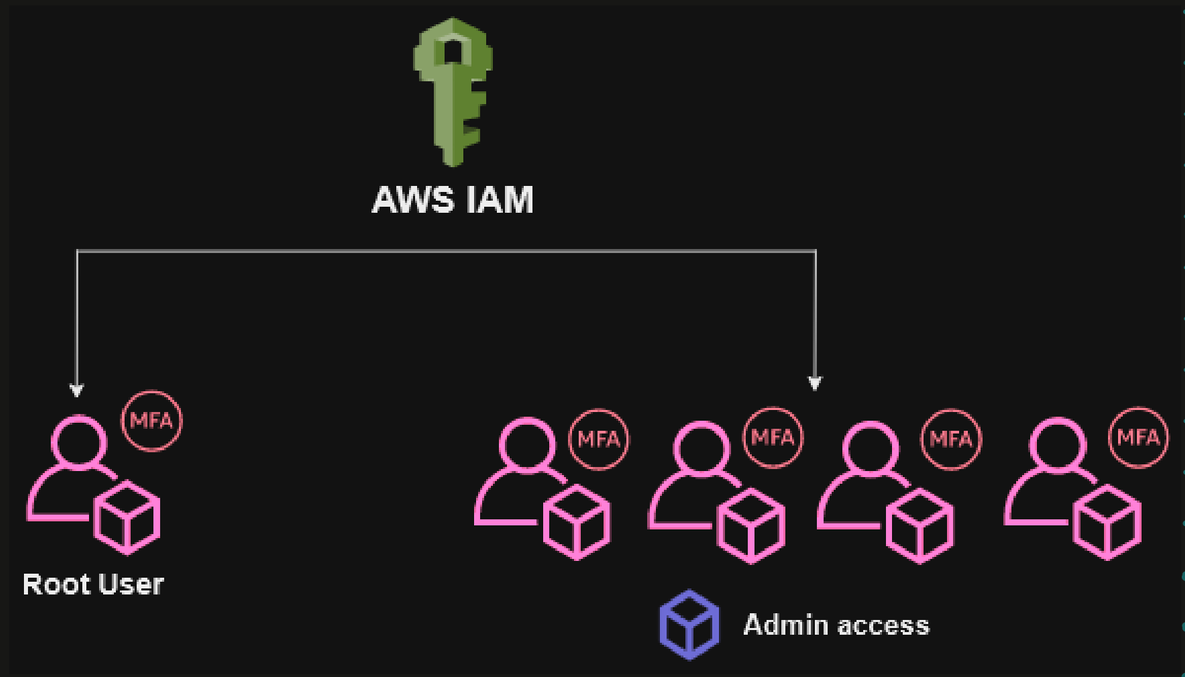
-Assign least-privilege permissions to users based on their roles.

-Enable MFA for all users with high-level access.

IAM Implementation

1.





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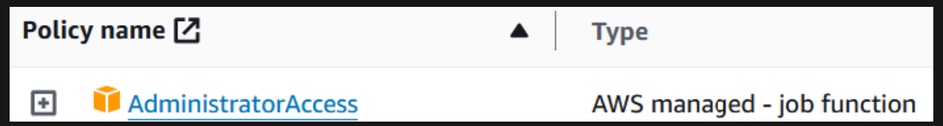

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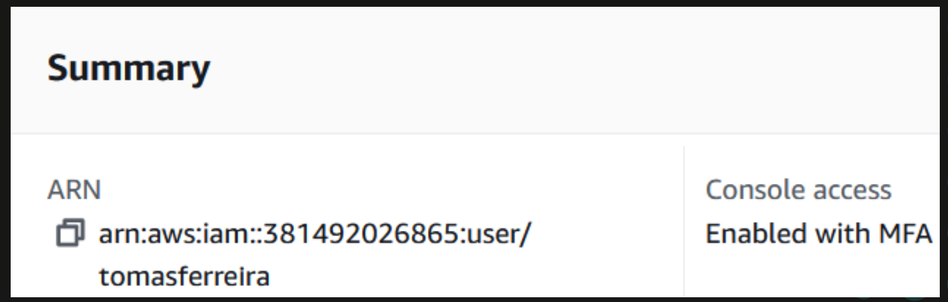
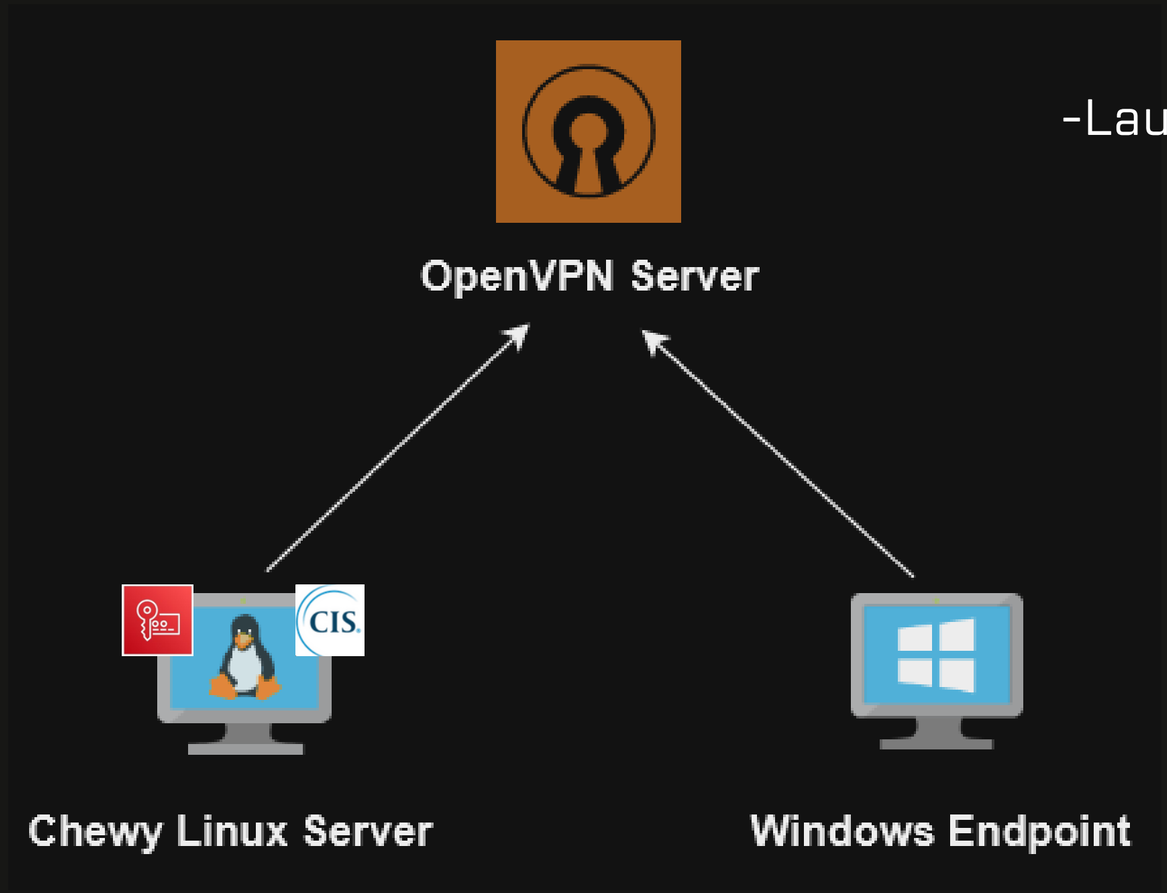
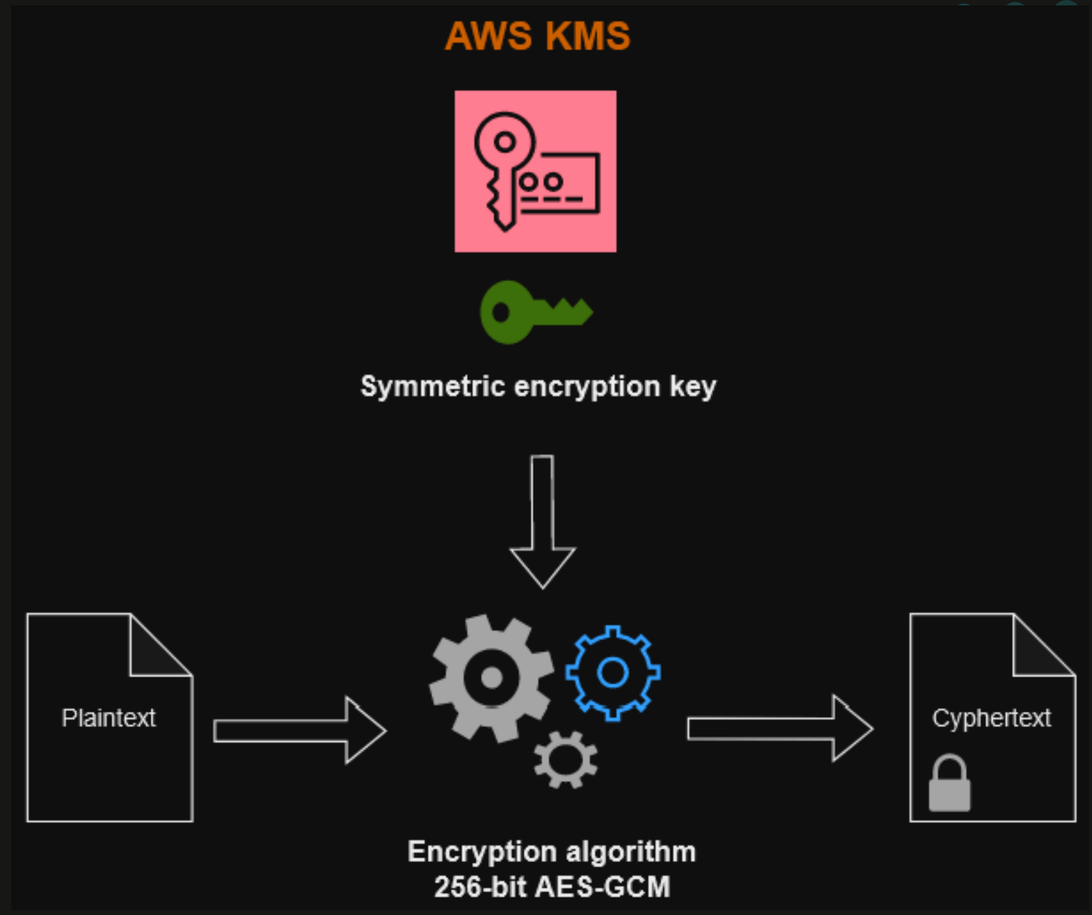


CIS Compliant Data Server



-Launch a Linux EC2 instance and configure it according to CIS benchmarks.



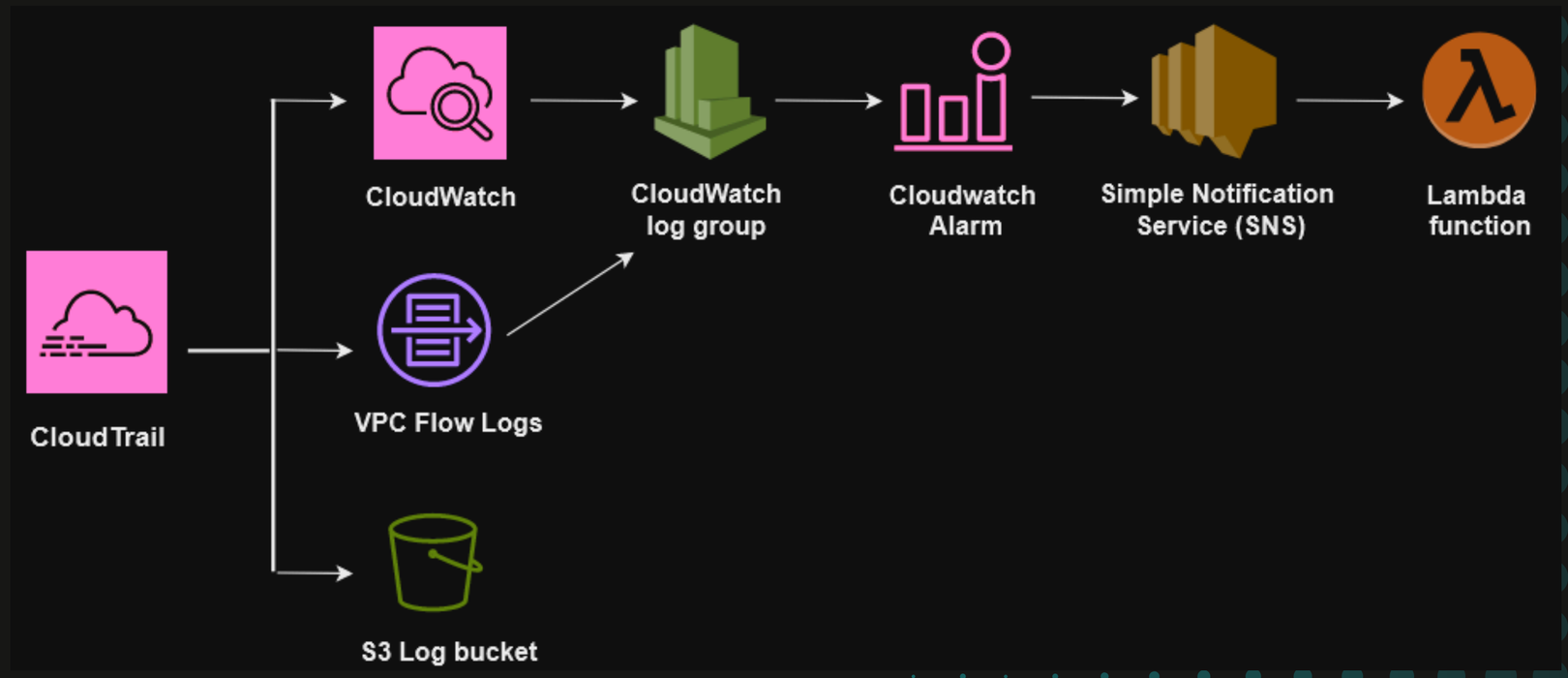
-Use AWS KMS to manage encryption keys and encrypt EBS volumes attached to the instance.

SIEM/Log Aggregation System

-Set up the chosen SIEM tool and integrate it with AWS services.

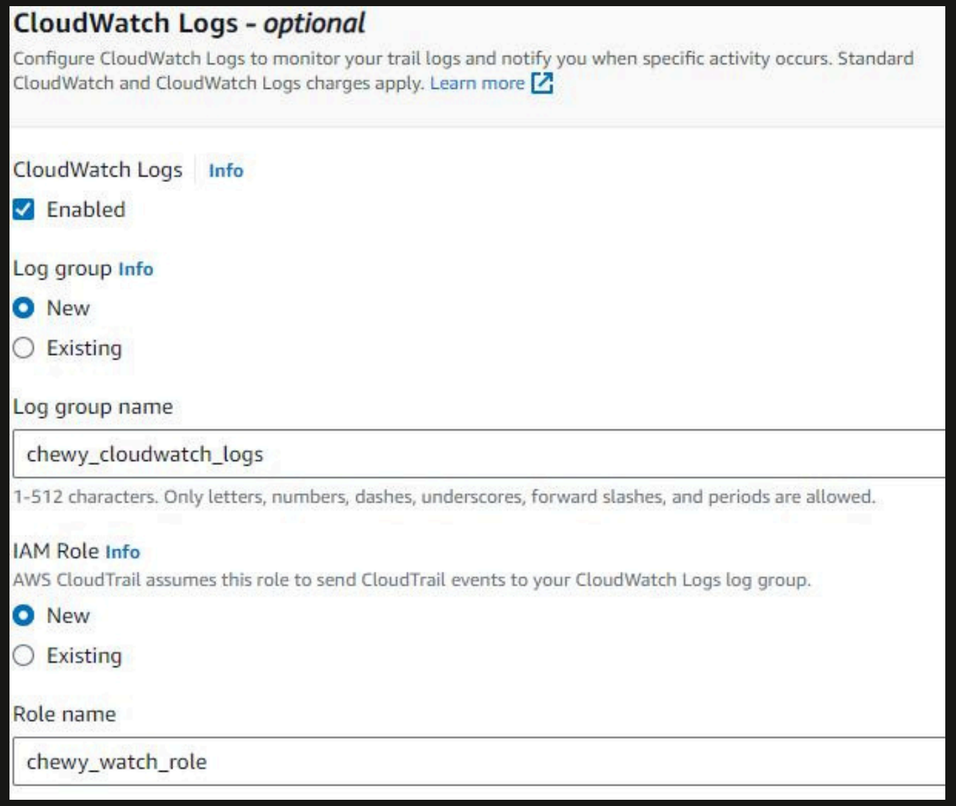
-Configure CloudTrail, CloudWatch Logs, and VPC Flow Logs.

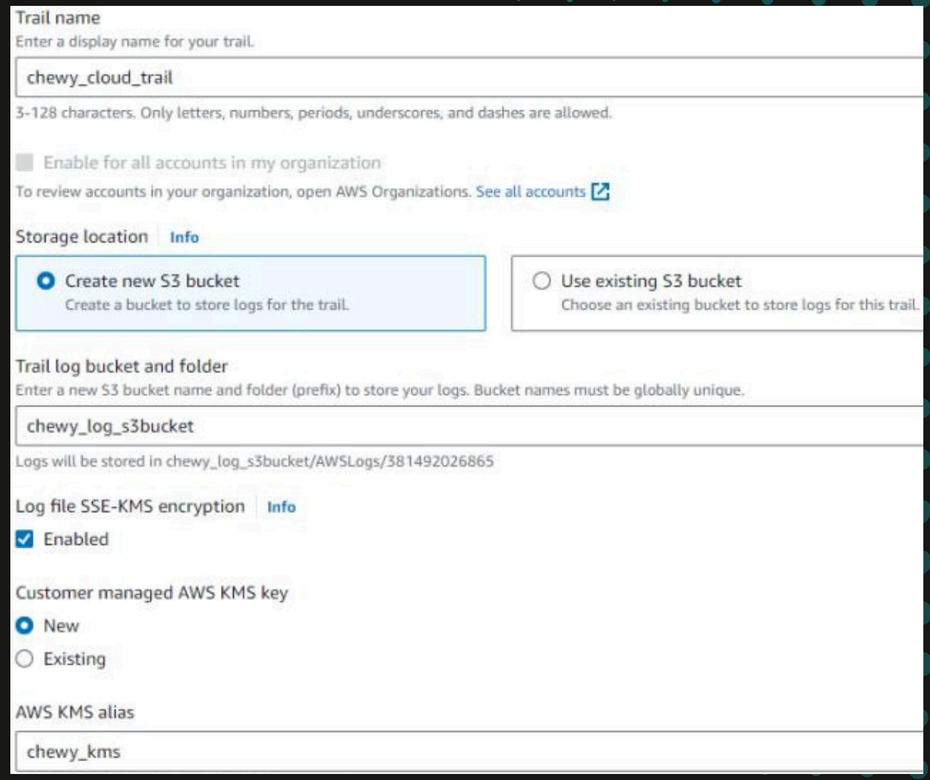
-Set up notification channels (email) to alert administrators.



SIEM/Log aggregation system

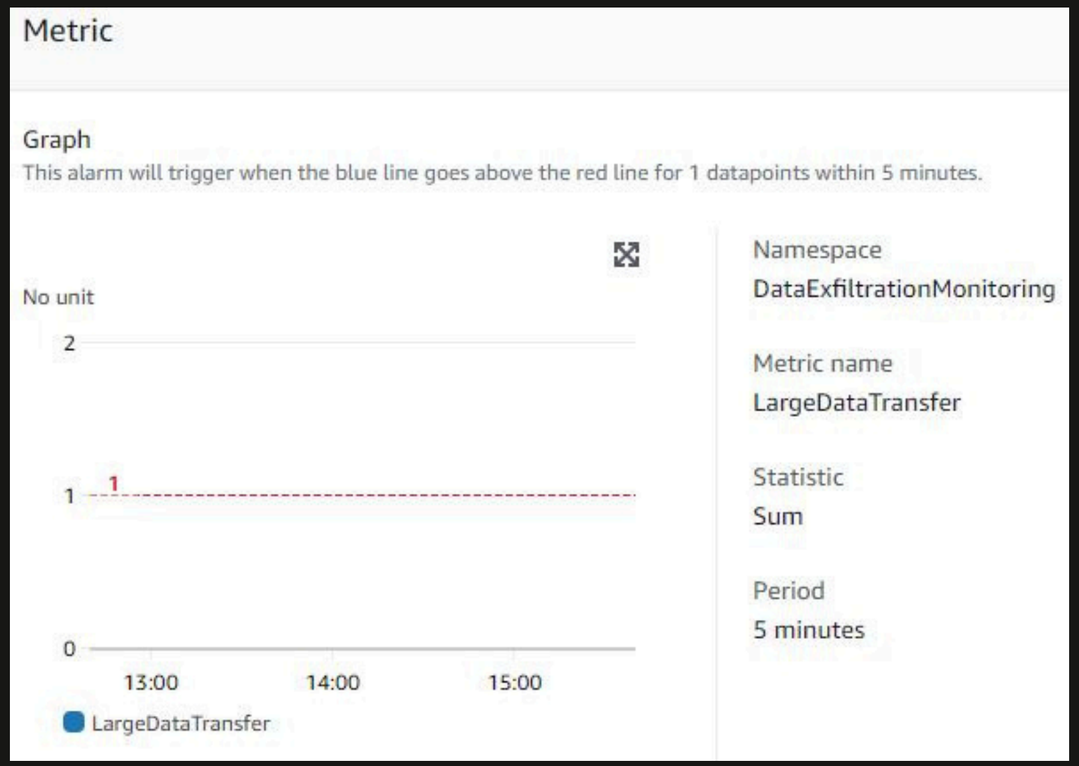
1. Configure CloudTrail

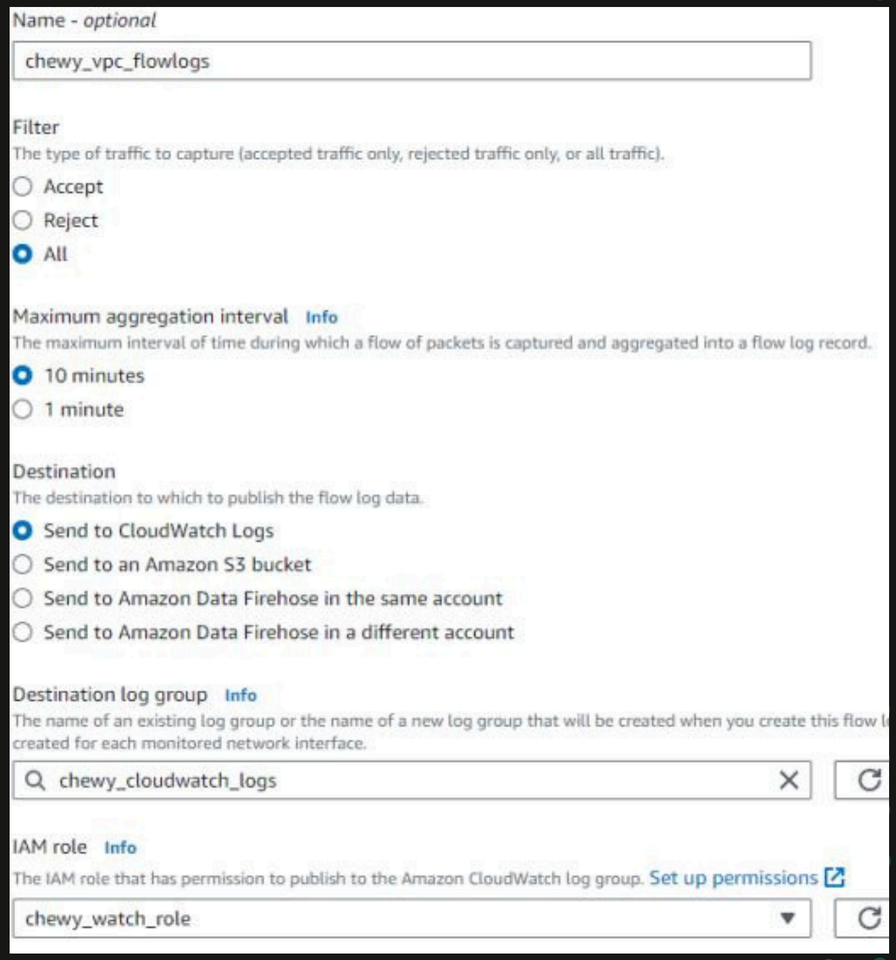




2. Configure CloudWatch

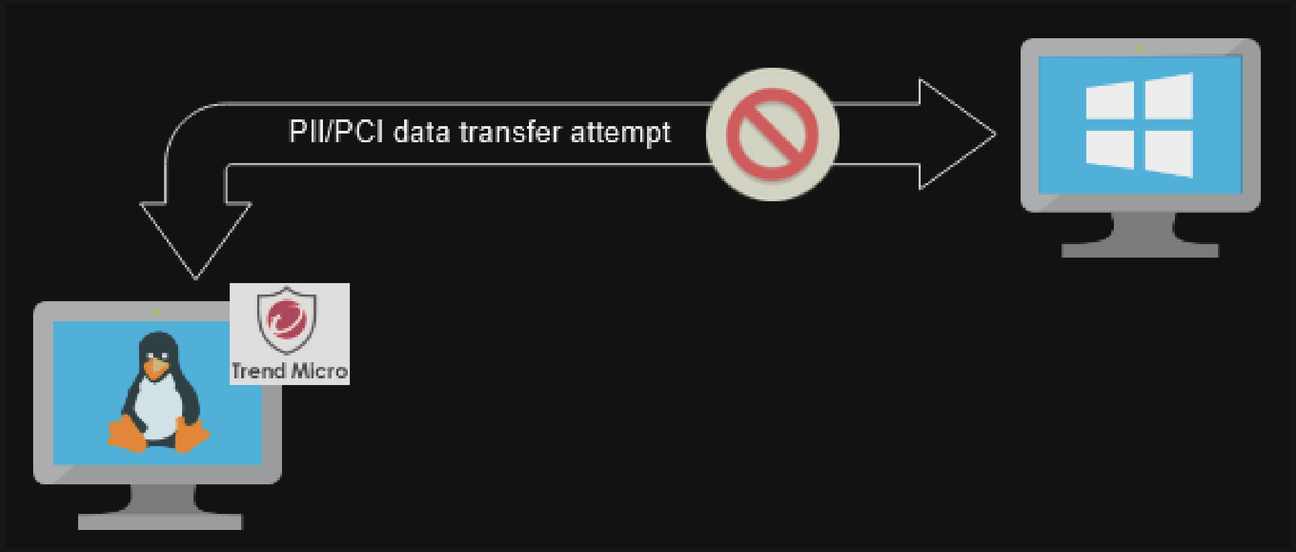
3. Create VPC Flow logs





4. Add Data Exfiltration Metric

Data Loss Prevention (DLP) Controls



-Select a DLP solution compatible with AWS [Trend Micro].

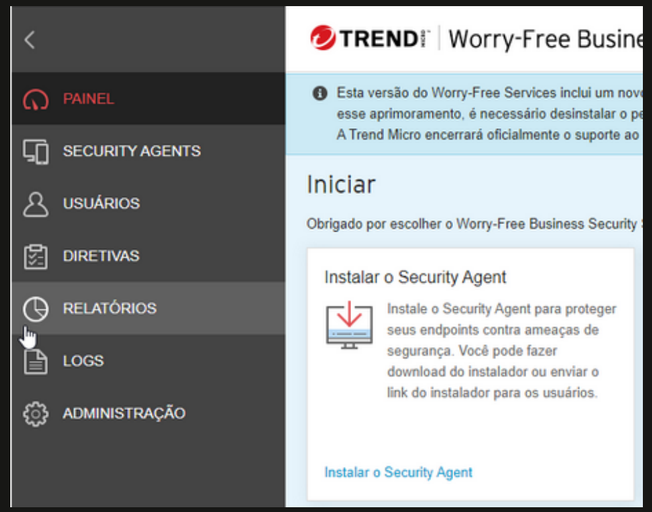
-Configure policies to detect and prevent the transfer of PII and PCI data.

-Test the DLP solution to ensure it effectively blocks unauthorized data exfiltration.

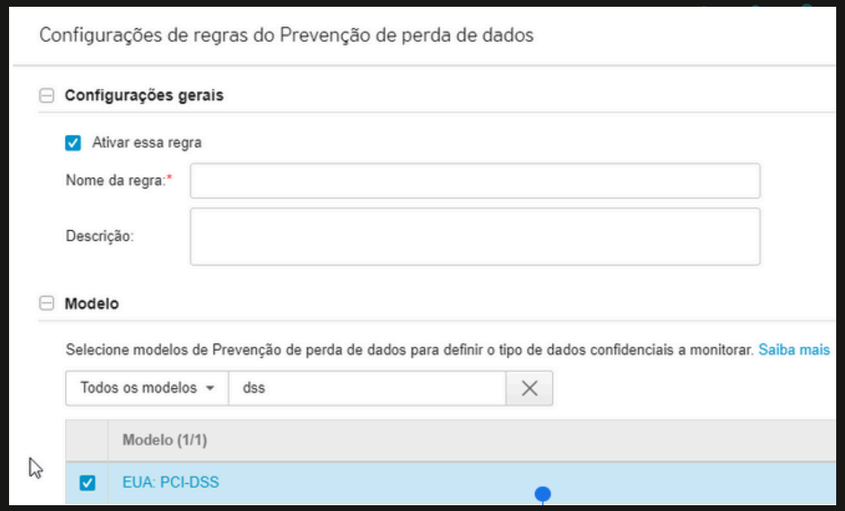
DLP tool

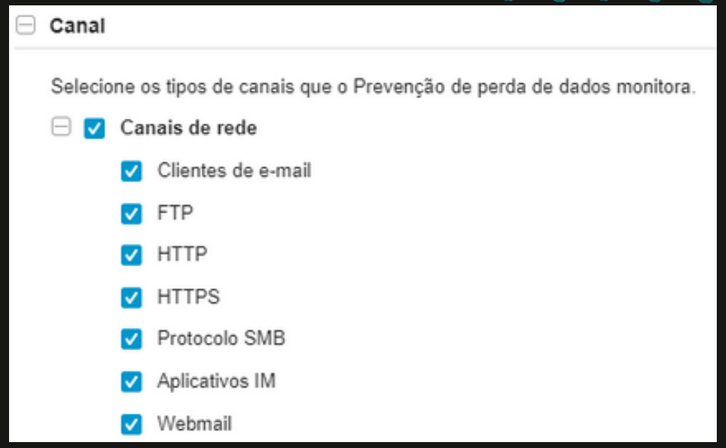
1. Create Trend Micro account

2. Trend Micro installation



3. Policy configuration





APPLICATION & DEMONSTRATION

DEMO

DOCUMENTATION

Report

Project Repo

THANK YOU