

Agenda

- 1. Intro to your SilverLine Security Team
- 2. Problem Domain Synopsis
- 3. Team Process & Documentation
- 4. Application Demonstration
- 5. Q&A

Team SilverLine

- 1. Benjamin Hobbs
- 2. Raheem Reed
- 3. David Siebert
- 4. Natasha Siramarco
- 5. Nick Van Noort



Benjamin Hobbs

Cybersecurity Engineer

- Background:
 - Supply-Chain/Logistics
 - Real Estate Agent
- Why Cyber?:
- My Experience:
 - Military
 - Business School
 - Life



Fun fact: Trivia Enthusiast

Career Goals: To create a widely-used tool in cybersecurity

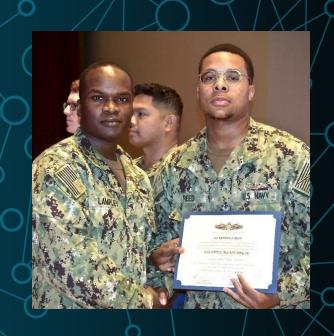
Raheem Reed

Cybersecurity Professional

Background:US Navy Veteran and Culinary arts

Why Cyber? I always wanted to help people and have a career where I can keep learning. My interest in cybersecurity has been Something I wanted to pursue since I was a kid and Im glad im taking this journey now.

Fun Facts: I have a love for boxing, anime, reading and chess



David Siebert

Cybersecurity Professional

Background
Retired US Army
Licenced Healthcare & Finance careers

Why Cyber?

The ever evolving world of data protection!

Fun Fact: Automotive enthusiast.



Natasha Siramarco

CyberSecurity Professional

- Previous experience: Military
- Reason: Solving puzzles, change in career, teach others
- Interesting/fun fact:
 - I spend free time doing brain-teasers Puzzles
 - Travel and bake with my children



Nick Van Noort

- 12 Years of experience as a Certified Financial Planner(CFP)
- 10 Years in the Army
- Unique skill set in identifying and mitigating vulnerabilities for organizations in an ever-evolving digital landscape



Problem Domain

Demonstrably improve processes and systems pertaining to cybersecurity

- Stated Client Priorities include:
 - Logging
 - Access Control (IAM)
 - Monitoring
 - Visibility of Activity
 - Threat Detection and Response



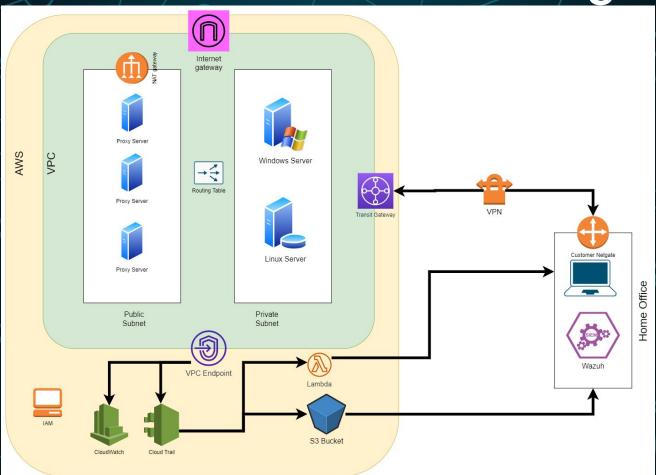


 We chose the NIST 800-53 (Rev 4) to map our compliance to



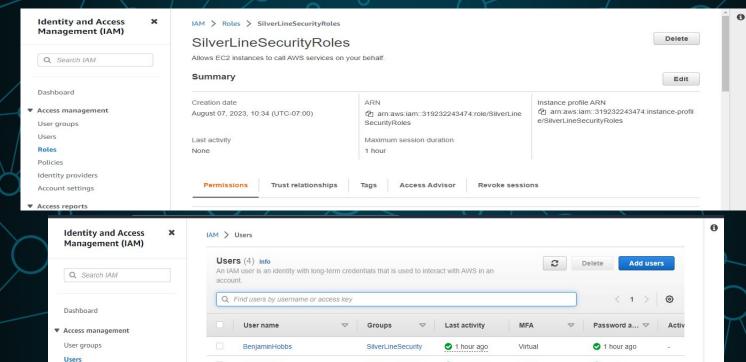


Cloud Infrastructure Design



Demo-Raheem Identity Access Management (IAM) **IAM Best Practices**

IAM Best Practices



SilverLineSecurity

SilverLineSecurity

SilverLineSecurity

1 hour ago

Never

Never

Virtual

Virtual

Virtual

1 hour ago

1 hour ago

1 hour ago

DavidSiebert

NatashaSiramarco

NicholasVanNort

Roles

Policies
Identity providers

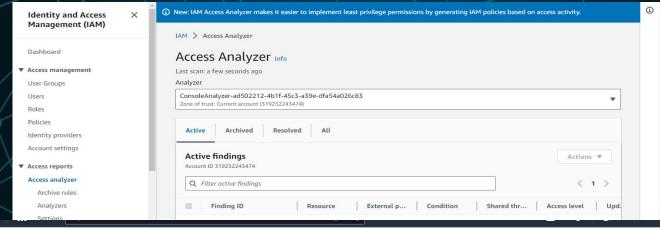
Account settings

▼ Access reports

Access analyzer

Archive rules

IAM Best Practices

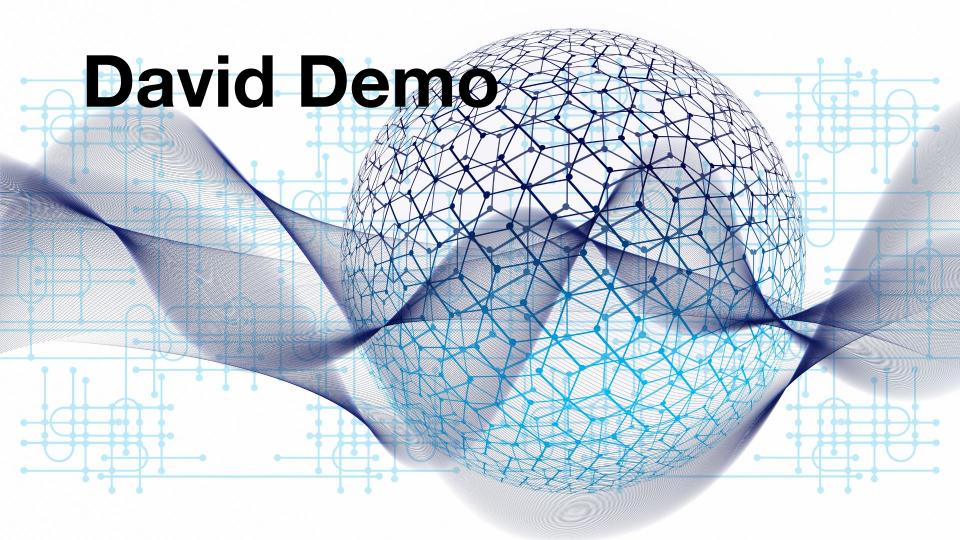


	Management (IAM)	~
	Q Search IAM	
	Dashboard	
	Access management	
	User groups	
	Users	
	Roles	
	Policies	
	Identity providers	
	Account settings	
•	Access reports	

Identity and Assess

Policy name ☑ ▽	Type ▽	Description
⊕	AWS managed - job function	Provides full access to AWS services and reso
⊕	AWS managed	Provides access to AWS CloudFormation via t
⊕ CloudFrontFullAccess	AWS managed	Provides full access to the CloudFront console.
⊕	AWS managed	Provides full access to all CloudHSM resources
⊕ CloudFrontReadOnlyAccess	AWS managed	Provides access to CloudFront distribution co
⊕ CloudSearchFullAccess	AWS managed	Provides full access to the Amazon CloudSear
⊕ GloudWatchFullAccess	AWS managed	Provides full access to CloudWatch.
⊕ CloudWatchLogsFullAccess	AWS managed	Provides full access to CloudWatch Logs
AWSDirectConnectFullAccess	AWS managed	Provides full access to AWS Direct Connect vi
⊕	AWS managed	Provides full access to Amazon EC2 via the A









Always encrypt new EBS volumes

Enables encryption by default for newly create



Default encryption key

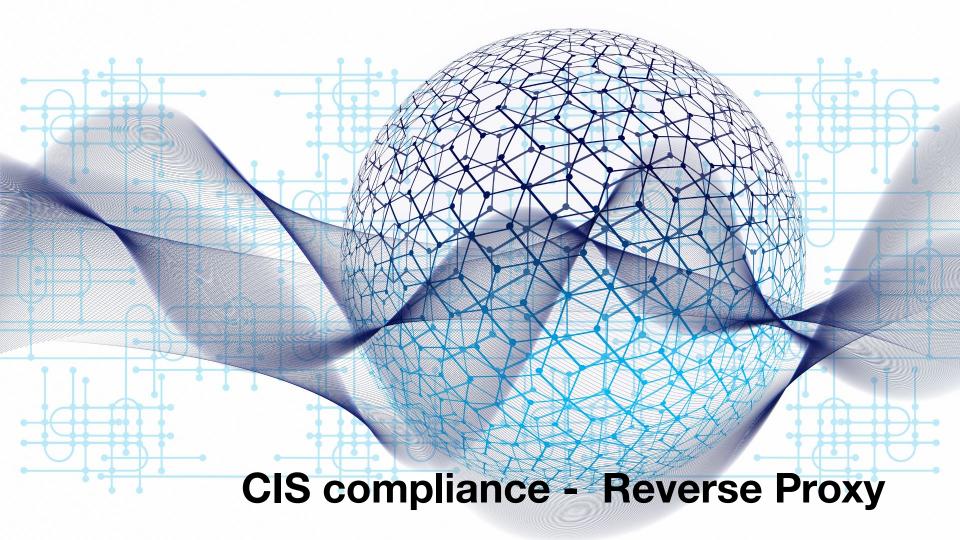
Specify the master key to encrypt your volume

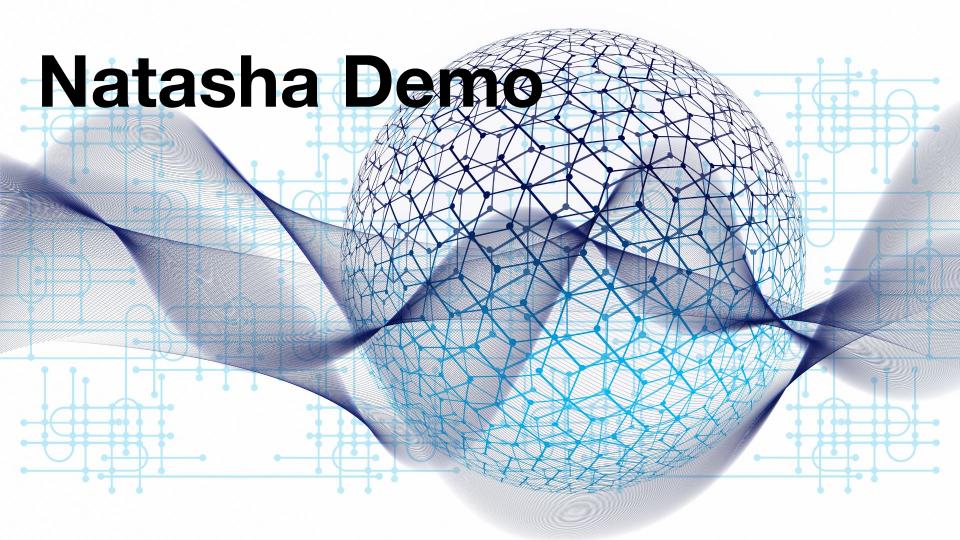
Q Set Encryption Key

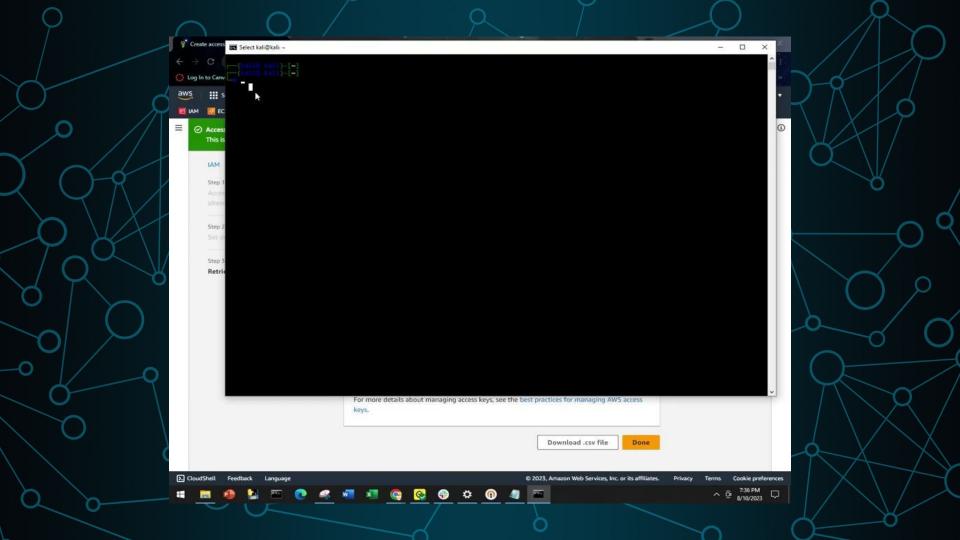
arn:aws:kms:us-east-2:529033817561 aws/ebs

CIS compliance = EBS (Full Disk Encryption)

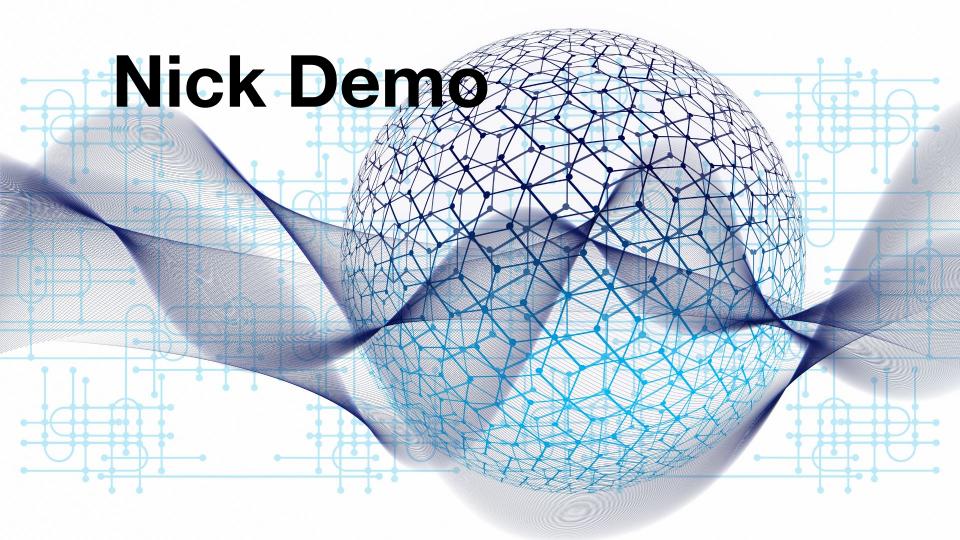




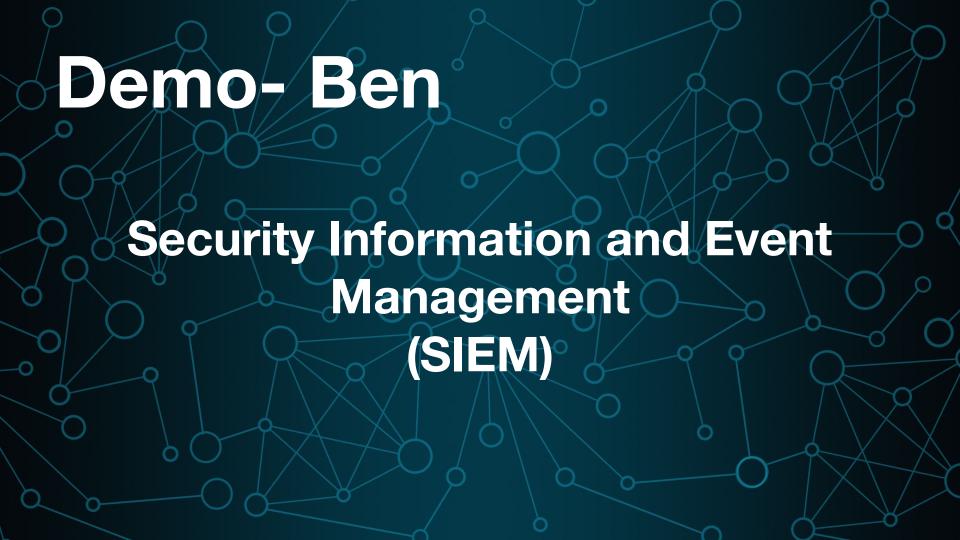


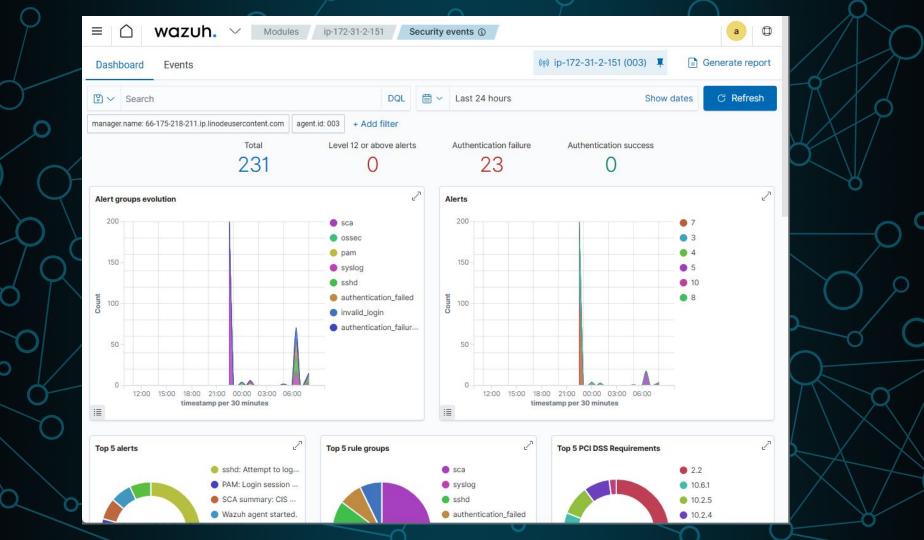


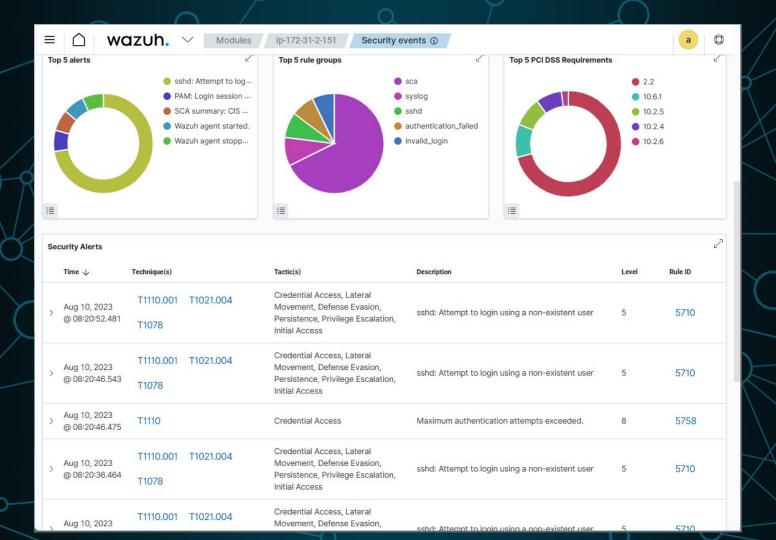
```
ssh -i /usr/share/python3/SLSecKey.pem ubuntu@52.88.45.109 "python3 describeInstances.py"
 'Reservations': [{'Groups': [], 'Instances': [{'AmiLaunchIndex': 0, 'ImageId': 'ami-0c65adc9a5c1b5d7c', 'InstanceId': 'i-024bdf23631a40305', 'InstanceType':
 't2.micro', 'KeyName': 'SLSecKey', 'LaunchTime': datetime.datetime(2023, 8, 10, 4, 58, 16, tzinfo=tzlocal()), 'Monitoring': {'State': 'enabled'}, 'Placement
 : {'AvailabilityZone': 'us-west-2c', 'GroupName': '', 'Tenancy': 'default'}, 'PrivateDnsName': 'ip-172-31-2-151.us-west-2.compute.internal', 'PrivateIpAddre
ss': '172.31.2.151', 'ProductCodes': [], 'PublicDnsName': 'ec2-52-88-45-109.us-west-2.compute.amazonaws.com', 'PublicIpAddress': '52.88.45.109', 'State': {'C
ode': 16, 'Name': 'running'}, 'StateTransitionReason': '', 'SubnetId': 'subnet-06ef193843ec12809', 'VpcId': 'vpc-064db35c71b2b7c9e', 'Architecture': 'x86_64'
 'BlockDeviceMappings': [{'DeviceName': '/dev/sda1', 'Ebs': {'AttachTime': datetime.datetime(2023, 8, 8, 23, 31, 33, tzinfo=tzlocal()), 'DeleteOnTermination
: True, 'Status': 'attached', 'VolumeId': 'vol-03c6610ea27472df7'}}], 'ClientToken': 'e920cf55-245d-470e-a665-b475bf75622d', 'EbsOptimized': False, 'EnaSupp
ort': True, 'Hypervisor': 'xen', 'NetworkInterfaces': [{'Association': {'IpOwnerId': '319232243474', 'PublicDnsName': 'ec2-52-88-45-109.us-west-2.compute.ama
zonaws.com', 'PublicIp': '52.88.45.109'}, 'Attachment': {'AttachTime': datetime.datetime(2023, 8, 8, 23, 31, 32, tzinfo=tzlocal()), 'AttachmentId': 'eni-atta
ch-0309f18db16d320af', 'DeleteOnTermination': True, 'DeviceIndex': 0, 'Status': 'attached', 'NetworkCardIndex': 0}, 'Description': '', 'Groups': [{'GroupName
: 'RevProx-SG', 'GroupId': 'sg-0d0ccf5b42d3f2ef3'}], 'Ipv6Addresses': [], 'MacAddress': '0a:4b:e2:67:e9:af', 'NetworkInterfaceId': 'eni-03566e334942a6cd8',
'OwnerId': '319232243474', 'PrivateDnsName': 'ip-172-31-2-151.us-west-2.compute.internal', 'PrivateIpAddress': '172.31.2.151', 'PrivateIpAddresses': [{'Assoc
<u>iation': {'IpOwnerId': '319232243474', '</u>PublicDnsName': 'ec2-52-88-45-109.us-west-2.compute.amazonaws.com', 'PublicIp': '52.88.45.109'}, 'Primary': True, 'Pr
ivateDnsName': 'ip-172-31-2-151.us-west-2.compute.internal', 'PrivateIpAddress': '172.31.2.151'}], 'SourceDestCheck': True, 'Status': 'in-use', 'SubnetId':
subnet-06ef193843ec12809', 'VpcId': 'vpc-064db35c71b2b7c9e', 'InterfaceType': 'interface'}], 'RootDeviceName': '/dev/sda1', 'RootDeviceType': 'ebs', 'Securit
yGroups': [{'GroupName': 'RevProx-SG', 'GroupId': 'sg-0d0ccf5b42d3f2ef3'}], 'SourceDestCheck': True, 'Tags': [{'Key': 'Name', 'Value': 'SLSec-UbuntuSrv20-Rev
Prox1'}], 'VirtualizationType': 'hym', 'CpuOptions': {'CoreCount': 1, 'ThreadsPerCore': 1}, 'CapacityReservationSpecification': {'CapacityReservationPreferen
ce': 'open'}, 'HibernationOptions': {'Configured': False}, 'MetadataOptions': {'State': 'applied', 'HttpTokens': 'optional', 'HttpPutResponseHopLimit': 1, 'H
ttpEndpoint': 'enabled', 'HttpProtocolIpv6': 'disabled', 'InstanceMetadataTags': 'disabled'}, 'EnclaveOptions': {'Enabled': False}, 'PlatformDetails': 'Linux
/UNIX', 'UsageOperation': 'RunInstances', 'UsageOperationUpdateTime': datetime.datetime(2023, 8, 8, 23, 31, 32, tzinfo=tzlocal()), 'PrivateDnsNameOptions': {
'HostnameType': 'ip-name', 'EnableResourceNameDnsARecord': False, 'EnableResourceNameDnsAAARecord': False}, 'MaintenanceOptions': {'AutoRecovery': 'default'
 , 'CurrentInstanceBootMode': 'legacy-bios'}], 'OwnerId': '319232243474', 'ReservationId': 'r-071851397e894756e'}], 'ResponseMetadata': {'RequestId': 'cda999
39-a545-4e50-9016-5959ef39d51b', 'HTTPStatusCode': 200, 'HTTPHeaders': {'x-amzn-requestid': 'cda99939-a545-4e50-9016-5959ef39d51b', 'cache-control': 'no-cach
e, no-store', 'strict-transport-security': 'max-age=31536000; includeSubDomains', 'vary': 'accept-encoding', 'content-type': 'text/xml;charset=UTF-8', 'trans
fer-encoding': 'chunked', 'date': 'Thu, 10 Aug 2023 23:16:40 GMT', 'server': 'AmazonEC2'}, 'RetryAttempts': 0}}
```











Resources & Thanks









Natasha Siramarco





Raheem Reed





Nick Van Noort



Benjamin Hobbs



David Siebert





