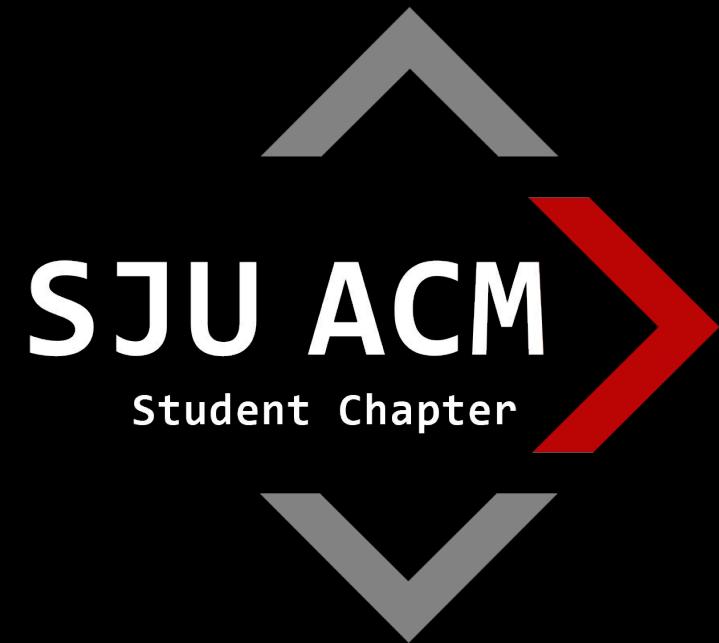




CLOUD INCIDENT RESPONSE + SJU ACM CLUE PT 2

SJU ACM STUDENT CHAPTER





INTRO TO CLOUD INCIDENT RESPONSE



WHAT IS AZURE?

- AZURE IS MICROSOFT'S CLOUD PLATFORM
 - EQUIVALENT TO AWS OR GOOGLE CLOUD
- BEST HYBRID CLOUD DUE TO MICROSOFT'S MARKET PRESENCE
IN PHYSICAL DEVICES AND THE WINDOWS OPERATING SYSTEM
- EXCELS IN SECURITY DUE TO SENTINEL, ITS CLOUD-NATIVE SIEM

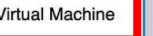
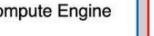
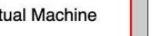
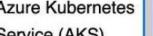
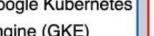
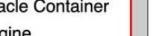
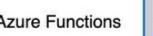
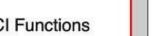
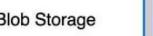
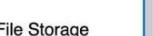
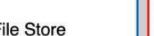
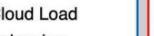
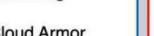
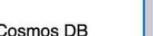
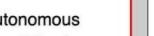
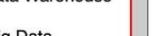
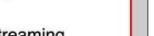
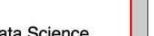
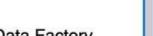
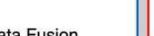
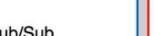
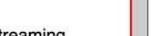
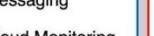
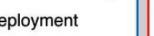
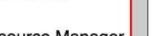
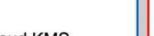




WHAT IS SENTINEL?

- MICROSOFT'S CLOUD-NATIVE SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM) PLATFORM
- AGGREGATES LOGS FROM ACROSS AZURE RESOURCES TO A CENTRALIZED PLACE
- DETECTS SECURITY INCIDENTS VIA CUSTOMIZABLE LOG ANALYTICS RULES
- CAN ENABLE AUTOMATED RESPONSES TO INCIDENTS

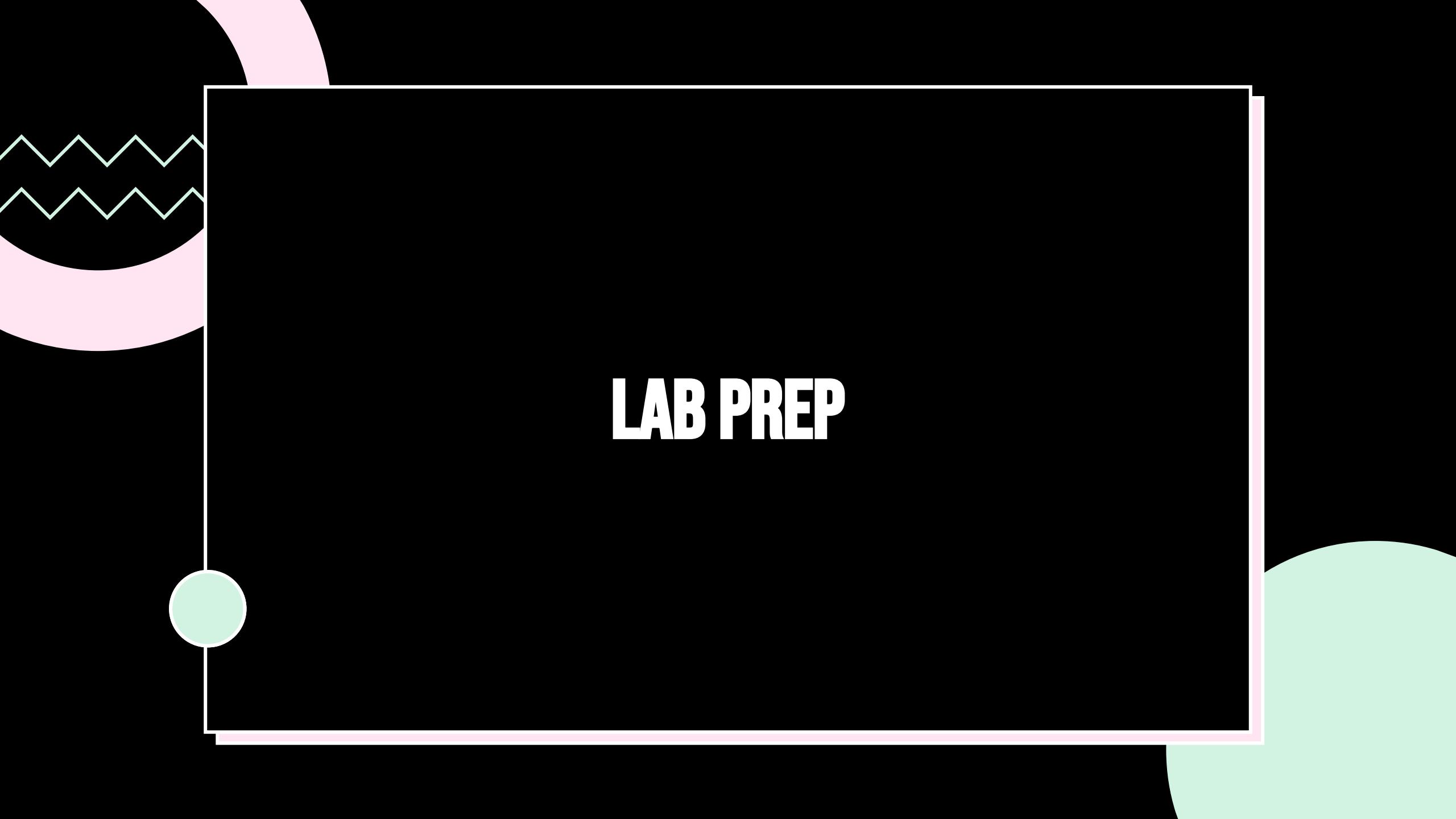


 AWS	 Azure	 Google Cloud	 ORACLE CLOUD
 Elastic Compute Cloud (EC2)	 Virtual Machine	 Compute Engine	 Virtual Machine
 Elastic Kubernetes Service (EKS)	 Azure Kubernetes Service (AKS)	 Google Kubernetes Engine (GKE)	 Oracle Container Engine
 Lambda	 Azure Functions	 Cloud Functions	 OCI Functions
 Simple Storage Service (S3)	 Blob Storage	 Cloud Storage	 Object Storage
 Elastic Block Store	 Managed Disk	 Persistent Disk	 Persistent Volume
 Elastic File System	 File Storage	 File Store	 File Storage
 Virtual Private Cloud	 Virtual Network	 Virtual Private Cloud	 Virtual Cloud Network
 Route 53	 DNS	 Cloud DNS	 DNS
 Elastic Load Balancing	 Load Balancer	 Cloud Load Balancing	 Load Balancer
 Web Application Firewall	 Web Application Firewall	 Cloud Armor	 Web Application Firewall
 RDS	 SQL Database	 Cloud SQL	 ATP
 DynamoDB	 Cosmos DB	 Firebase Realtime Database	 NoSQL Database
 Redshift	 Synapse Analytics	 BigQuery	 Autonomous Data Warehouse
 Elastic MapReduce	 HDInsight	 Dataproc	 Big Data
 Kinesis	 Streaming Analytics	 Dataflow	 Streaming
 SageMaker	 Machine Learning	 Vertex AI	 Data Science
 Glue	 Data Factory	 Data Fusion	 Data Integration
 EventBridge	 Event Grid	 Eventarc	 Events
 Simple Queuing Service	 Storage Queues	 Pub/Sub	 Streaming
 Simple Notification Service	 Service Bus	 Firebase Cloud Messaging	 Notifications
 CloudWatch	 Monitor	 Cloud Monitoring	 Monitoring
 CloudFormation	 Resource Manager	 Deployment Manager	 Resource Manager
 IAM	 Active Directory	 Cloud Identity	 IAM
 KMS	 Key Vault	 Cloud KMS	 Vault



Incident Response Lifecycle





LAB PREP



CREATING YOUR AZURE ACCOUNT

1. GO TO: [HTTPS://AZURE.MICROSOFT.COM/EN-US/FREE/STUDENTS](https://azure.microsoft.com/en-us/free/students)
2. CLICK “START FREE” AND LOG INTO YOUR MICROSOFT ACCOUNT
3. ENTER YOUR PERSONAL INFORMATION
4. PROVIDE US WITH YOUR ST. JOHN’S EMAIL TO GET ADDED TO THE AZURE ENVIRONMENT
5. ACCEPT EMAIL INVITATION
6. DOWNLOAD MICROSOFT AUTHENTICATOR APP
7. SET UP AUTHENTICATOR AND COMPLETE MFA LOGIN
8. SEARCH FOR “RESOURCE GROUPS” AND MAKE SURE YOU CAN SEE “ACMCLOUDRG”. IF IT’S NOT THERE,
REFRESH THE PAGE A COUPLE OF TIMES



LAB BRIEFING

SJU ACM

CLUE

An Incident in the Cloud



THE INCIDENT

The day is Wednesday, April 17. The St. John's ACM Student Chapter e-board is collaborating on their cloud platform to design a new workshop for their members. Upon logging in, they're met with an alert in their SIEM indicating that one of their workstations may have been infected with malware! The alert shows that a mysterious command was run on David's workstation, however, David claims that he was not logged into his workstation at the time of the alert and suspects that someone else on the e-board must have been the one behind this incident. The members of SJU ACM have agreed to investigate the alert in hopes of uncovering the true identity of the culprit. It's up to you to figure out who did it, where they did it, and what malware they used.

THE SUSPECTS



RAYMOND RAMDAT



JAKE ENEA



DAVID ROSOFF



TOMAS SANTOS
YCIANO



BEN HANIM



FAIROOZ EHSAN



AQUEENA ALEXANDER



AMRITA KAUR

THE BUILDINGS



THE MALWARE





THANK YOU!

