

Cybersecurity Intern Matt, Naji, TerpSys



Alert Triaging &

- Threat Hunting
 Microsoft Sentinel (SIEM)
 Microsoft Defender (XDR)
 DarkTrace (NDR)

Collaboration

- Meeting with Ryan Bateman
 Meeting with Nick Martin
 Shadowing Andrew Hartman
 Tabletop simulation

HoxHunt

Phishing Training Platform

Technical Skills Development

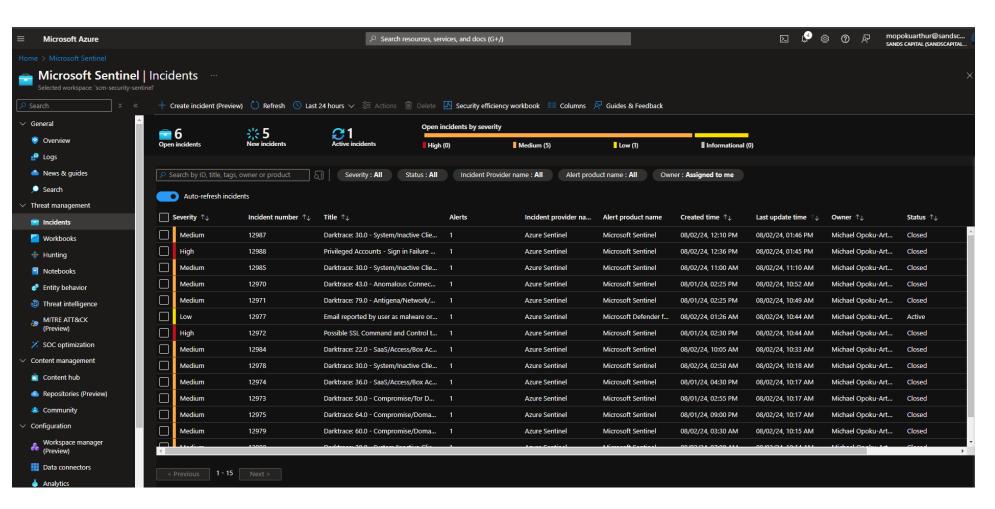
- KQL
- Python scripting

Alert Triaging & Threat Hunting

Rules and policies are established within our various security tools to protect the firm's environment. When an event triggers one of these rules or policies, our systems flag the incident, an alert is generated, and it is logged into our SIEM (Microsoft Sentinel)

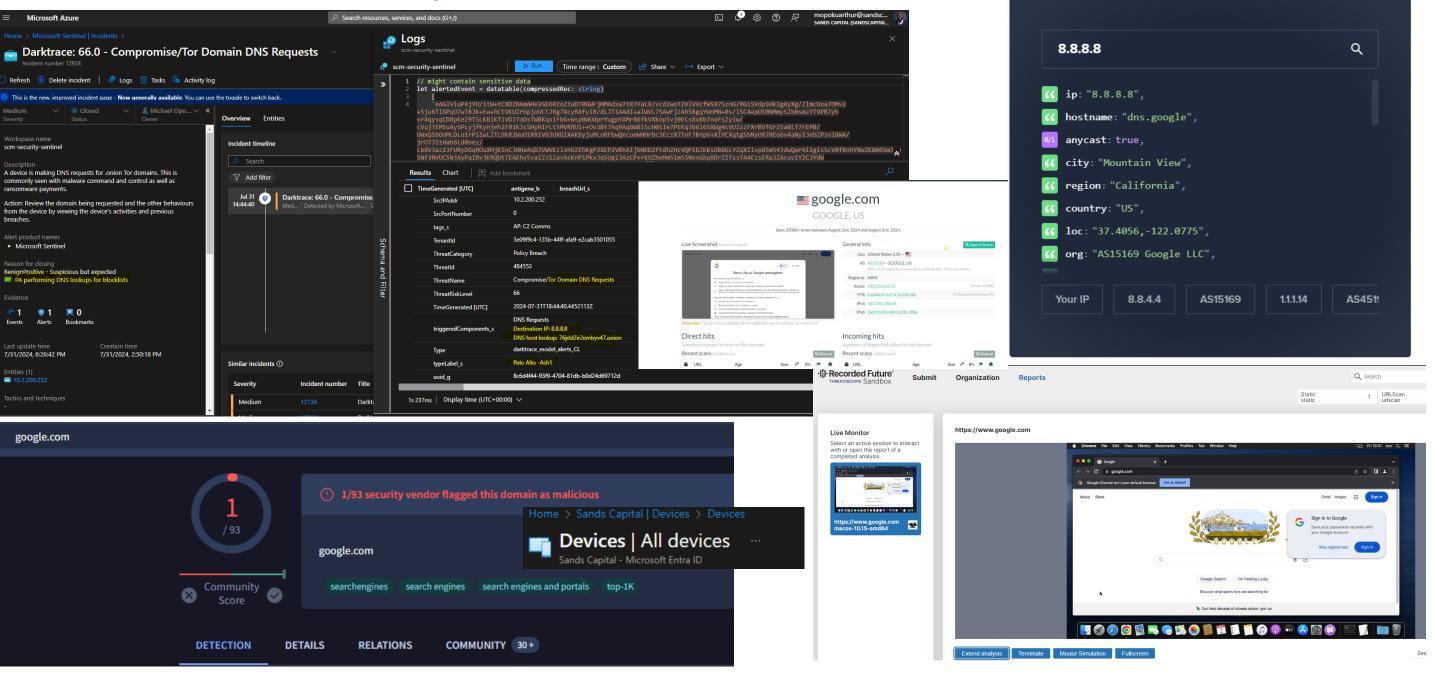
- Alert Triaging
 - Reviewing, prioritizing and filtering out incidents
- Threat Hunting
 - Investing further any incident that may stand out
- Memorable Moment:
 - Taking over the duty of monitoring Sentinel board

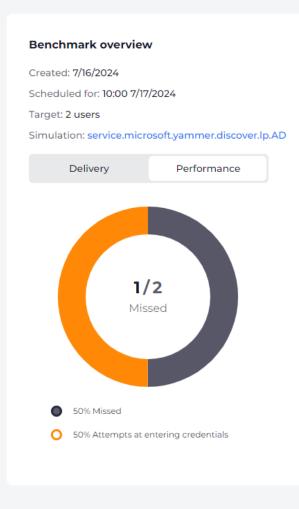
Alert Triaging



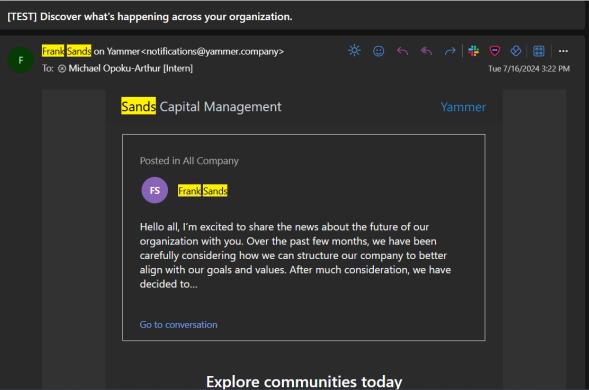


Threat Hunting

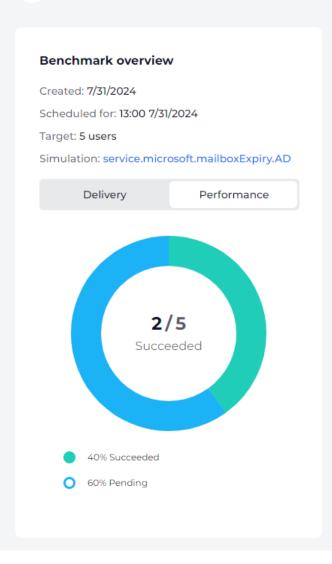




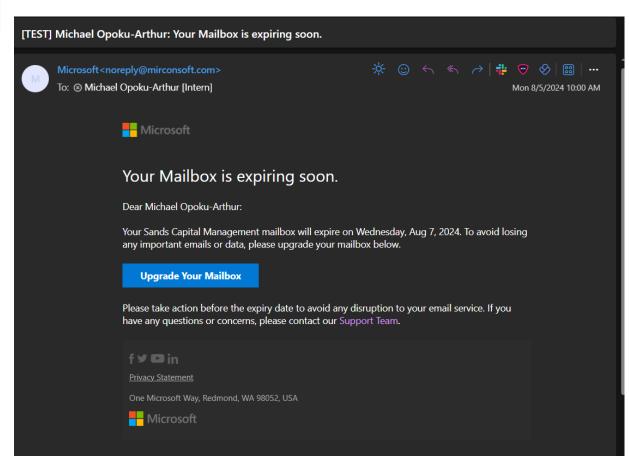


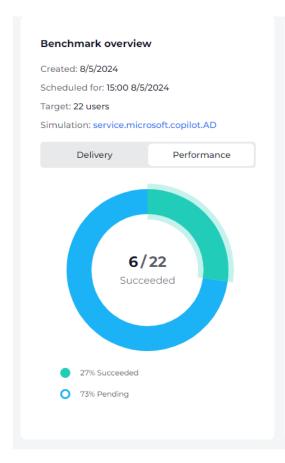


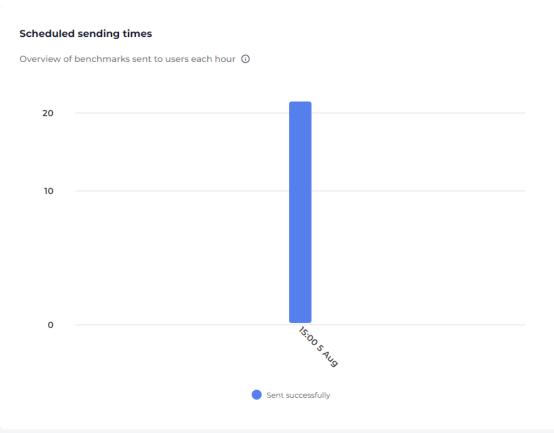
Intern Phish 3 Waiting for results

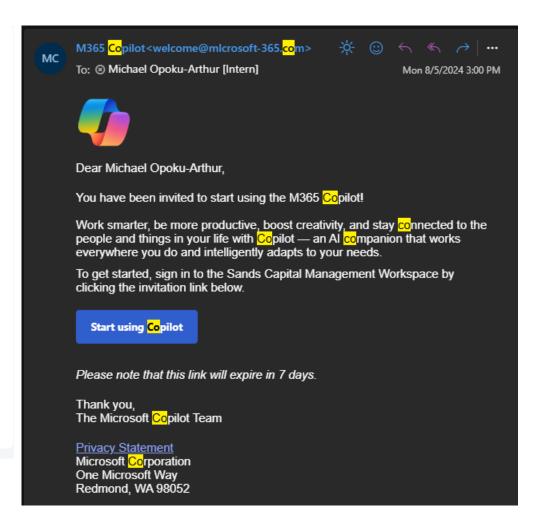


Scheduled sending times Overview of benchmarks sent to users each hour ① Sent successfully







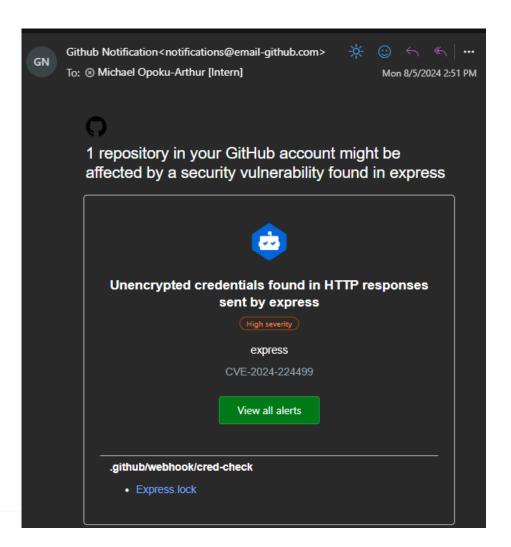


Created: 8/5/2024
Scheduled for: 15:03 8/5/2024
Target: 4 users
Simulation: service.github.vulnerabilityFound.lp

Delivery Performance

4/4
Sent





Collaboration – Ryan Bateman

- Key takeaways:
 - CISO & CTO
 - History of Sands IT Team
 - Received advice as an aspiring cyber professional
 - Learned about his journey into IT within the Financial Services Industry
 - Tabletop Simulation

Collaboration – Nick Martin

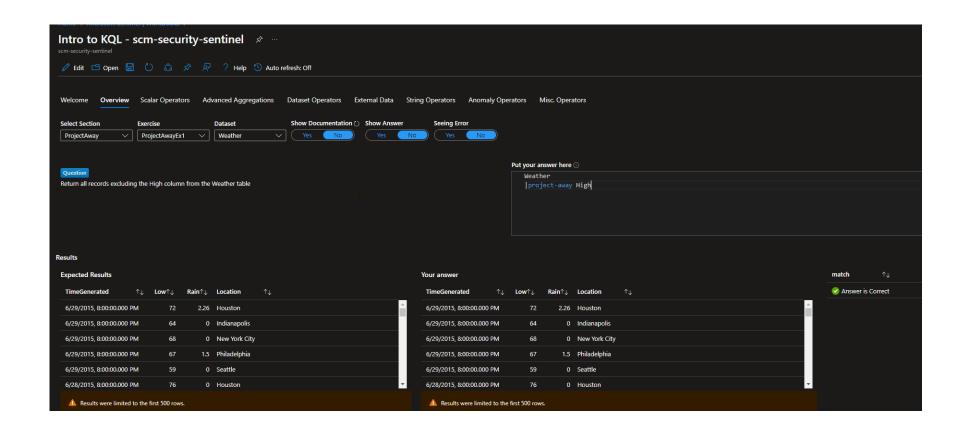
- Key Takeaways
 - Director of Al Solutions
 - Crash course of Al
 - Addressed common misconceptions
 - Discussed how he has implemented AI within the firm and how he plans to continue

Collaboration – Andrew Hartman

- Key Takeaways:
 - DMZ Takedown
 - Setup of Canary Honeypots
 - Sentinel alert deep dive

Technical Skill Development

- KQL (Kusto Query Language)
 - a query language used to interact and analyze data sets within Microsoft products
 - KQL training allowed me to understand the common functions, operators, and statements to efficiently query our datasets and logs



Technical Skill Development

- Script Refactoring Mini project that I worked on with Naji
 - Refactor the script we use to generate the data for our weekly security meetings
 - Eliminate Tech Debt/Reliance on Python 3.7
 - One objective was to integrate the Azure Key Vault API into the script so that we are securely storing our secret keys and pulling for Azure compared to storing keys in the code

```
with open("config.json") as item_to_read:
    json_config_object = json.load(item_to_read)
    TOP_PATH = json_config_object["TOP_PATH"]
    TODAY_PATH = os.path.join(TOP_PATH, DATE_COMMON)
    ATP_SECRET = json_config_object["TOP_PATH"]
```

```
credential = DefaultAzureCredential()
secret_client = SecretClient(vault_url="https://

Tenant_ID = secret_client.get_secret("TenantID").value
App_ID = secret_client.get_secret("AppID").value
App_Secret = secret_client.get_secret("AppSecret").value
```

