

Drinking from the Fire Hose

ONE YEAR INTO INCIDENT RESPONSE

PRESENTED BY GOLGOTHUS (ZACH, HE/HIM)

Whoami: Golgothus / Zach (he/him)

Work Experience

- Cyber Security Associate Engineer (Incident Response, 1 year)
- Previously Endpoint Protection (3 years)
- Help Desk UTA (1 year)

Accreditations

- CySA+
- Pentest+

Social Media

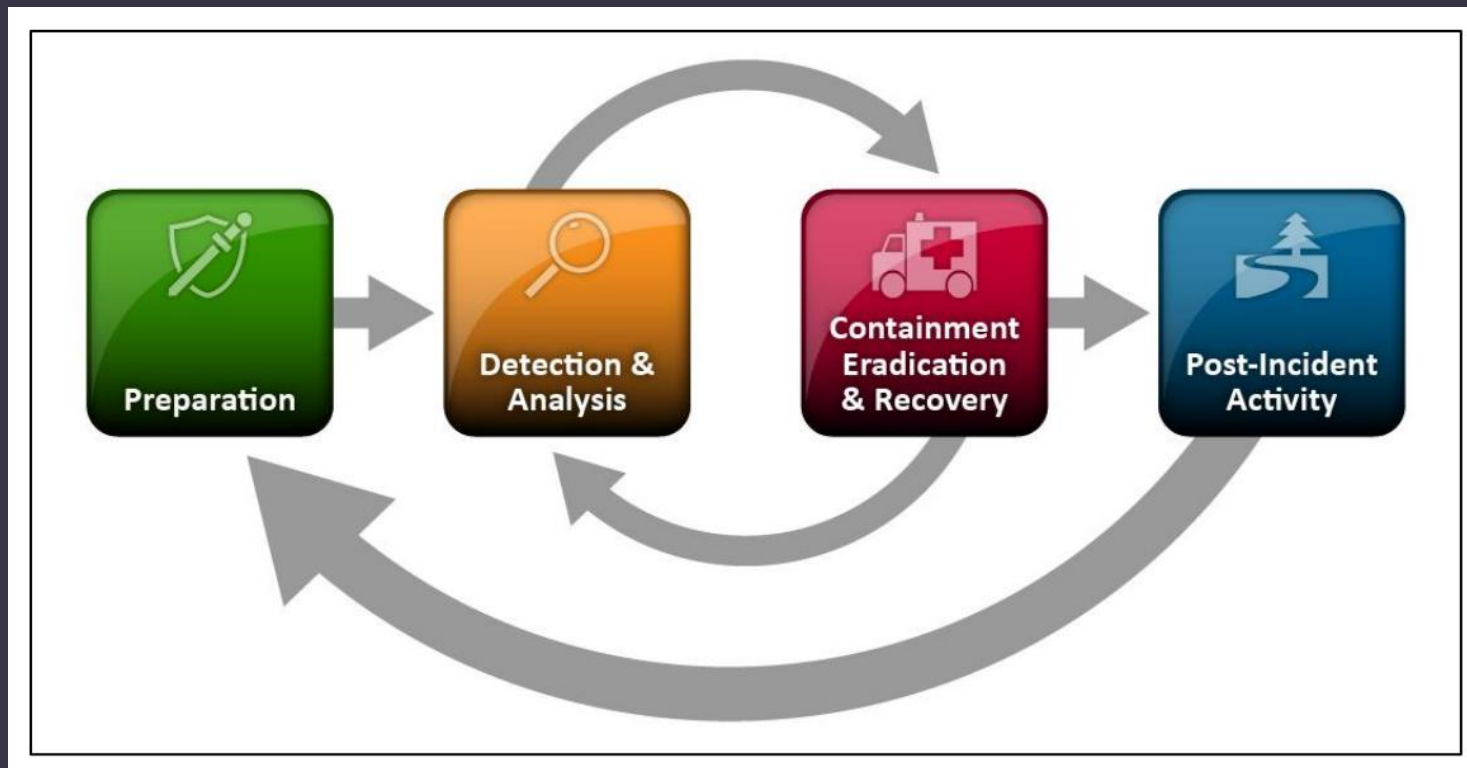
- [ghost\\$ \(golgothus.tech\)](#)
- [Golgothus \(Zach He/Him\) \(@Golgothus\) / Twitter](#)

In the Beginning

- Incident Response is a tough, but fun job
- Knowing your environment is beneficial
- Logs are your life source
- Every organization is different
- Know your process
 - “Who, What, When, Where, Why”
- Take notes!
- “Teamwork to makes the dream work”

In the Beginning (Cont.)

Incident Response Process:



Know Your Scope

- Advice I've received:
 - Know the difference between a security incident vs. security compliance
- Verify your alert activity
 - Sometimes the "NMAP Scan" won't be "true positive" activity
 - No point in burning cycles to investigate known normal / benign activity
- Keep communication channels open, and get to know your team

Tools of the trade

URL

- [Remnux](#) + Burpsuite to review re-direct links for payloads
- [URL Redirect Checker | WhereGoes](#)
- [URL and website scanner - urlscan.io](#)
- [Shodan Search Engine](#)

Hash

- [VirusTotal - Home](#)
- [AlienVault - Open Threat Exchange](#)
- [ANY.RUN - Interactive Online Malware Sandbox](#)

Work Smarter, Not Harder

- If documentation doesn't exist, make it
- Prevent alert burnout by reducing the noise
- Incorporate searches / sub-searches to enrich your data
- Throwback to notation. Playbooks, 'case templates', or case management systems can be priceless to your team
- <https://twitter.com/Cyb3rSn0rlax/status/1549179670406512641>

The Future is Now

- Don't spread yourself too thin
- It's OK to specialize, just share the knowledge
- Current outlook
 - Azure Pipelines and Azure DevOps
 - Azure Kubernetes Service
 - Azure LAWS / Sentinel
 - Kubernetes / Docker

The Future is Now (cont.)

Detections as Code (DaC)

- Splunk has a few solid blog posts on this (referenced in notes)
- Usage of streamlined processes to create refined detections

CI/CD Pipeline

- Azure Boards help correlate tasks to specific Pull Requests, this can be useful for Change Advisory Boards and metrics
- Automate updates and deployments via the DevOps Pipeline
- Review modifications to branches, code, environment from a single pane

DevSecOps

- Usage of DevOps pipeline / tooling
 - Git (local repo)
 - Github
 - Bitbucket
 - GitLab
- [Azure DevOps Services | Microsoft Azure](#)
- [Terraform](#)
- [Azure DevOps Hands-On Labs | Azure DevOps Hands-on-Labs \(azuredevopslabs.com\)](#)

Resources

- [Azure Repos documentation - Azure DevOps | Microsoft Docs](#)
- [Microsoft Certified: Azure Administrator Associate - Learn | Microsoft Docs](#)
- [Exam AZ-400: Designing and Implementing Microsoft DevOps Solutions - Learn | Microsoft Docs](#)
- [Exam SC-200: Microsoft Security Operations Analyst - Learn | Microsoft Docs](#)

Honorable Mentions:

- [SiegeCast: Azure Ad Basics with Alex Norman and Justin Palk – YouTube](#)
- [Penetration Testing Azure for Ethical Hackers | Packt \(packtpub.com\)](#)
- [Welcome to Kubernetes Goat | Kubernetes Goat \(madhuakula.com\)](#)
- [12 Days of Defense - Day 1: PDF and Office Doc Malware IOC Extraction - YouTube](#)