CodePath

Week 9 (Cont'd)

Homework

Week 9 Homework Report 11/11 @ 11:59 PM

- Still CodePath Week 9
- Milestones 1 5 for CodePath **Assignment**
- Submit on Collab

Homework

Week 9 CodePath Assignment 11/11 @ 11:59 PM

- Submit according to CodePath guidelines

Topics

Week 9 (Cont'd)

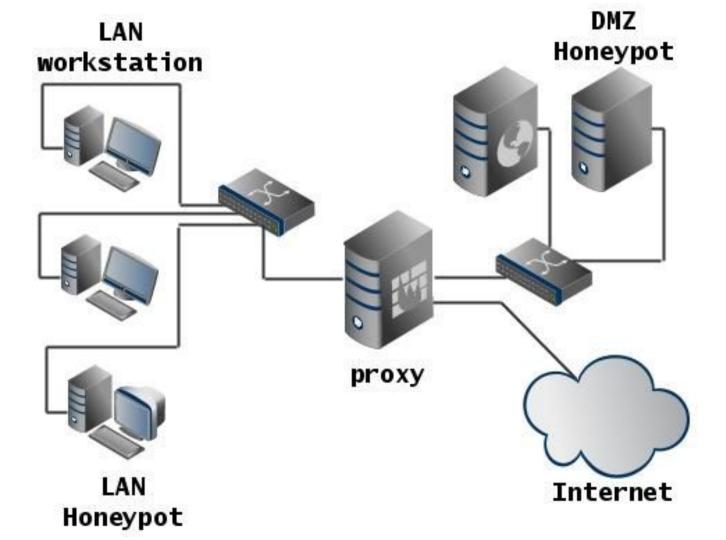
Readings on course website

- NetSec Crash Course
- Firewalls

- Intrusion Detection System
- Risk Assessment
- Penetration Testing
- Threat Monitoring
- Incident Response

Honeypots

- A honeypot is a decoy application, server, or other networked resource
- Purpose
 - Attract and trap hackers
 - Learn technique the hacker uses to enter network
 - Allows for a profile to be built
 - Learn new or unconventional hacking methods



Honeypots

- Low-interaction honeypots: Simulation of target resources
 - Usually virtualization
 - Example: Emulated SSH server
- High-interaction honeypots: Expose a real target's resources to attract sophisticated attackers
 - Example: Real SSH server with misconfigured settings to be vulnerable on purpose

Goals

- Configure and deploy your own honeypot server
 - Has an attack surface that is vulnerable to a network-based attack
 - Network security feature such as an IDS configured to detect and log such attacks

Modern Honey Network (MHN)

- Open source honeypot you will be using for the assignment
 - Need 2 VM's
 - Admin VM
 - Used to deploy honeypots
 - Honeypot VM

Google Cloud

- Will need a cloud service provider in order to host the honeypots
- Use Google Cloud platform
- It is free, but you will need to delete and shut down your service by the time you are done with it

Notes

- Read all instruction carefully
- Install all required software/utilities as stated in the directions
- Will be accessing honeypots mainly through a terminal
- Should work on host machine, but if not try a VM
- Can take at least 30-40 minutes so don't procrastinate

Office Hours

Monday / Thursday / Sunday : 5 - 7 PM @ Rice 226