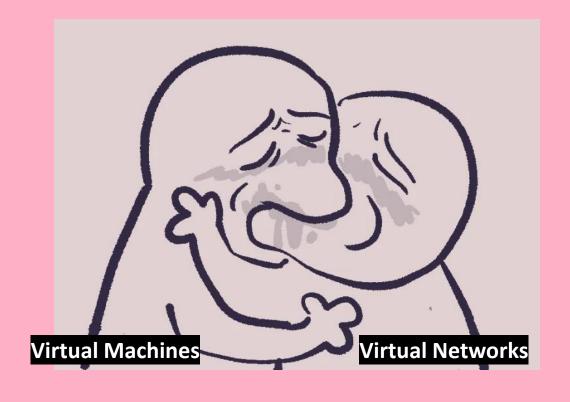


Virtual Networks Rev Shells





SNITCHES GET STITCHES >:3



Biju Issac















To: floyd.wakefield-wallis; nathalie.coughlan

Mon 10/14/2024 1:57 PM

Cc: Jeyamohan Neera

Hi Floyd and Nathalie,

I hope you are well.

I had feedback from a first NCS student saying even though he liked your session, you could deliver stuff in a more simple manner – not assuming any background knowledge.

I know this can be a challenge – to strike that balance between too simple and too tough. But I hope that helps to know.

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Thanks, biju

Please ask questions if needed <3



All of the guides on Github:

https://github.com/partiallySecure/CyberClinic





. We will not be getting microphones

. Please read the guides

. We will try to fill the lessons out more - weren't sure how quick you guys would be

. Keep us updated with suggestions please - WE LIVE TO PLEASE YOU

We are Disappointed.

What is the name of your first pet? 6 responses Ant Would you like my mother's maiden name too? DROP TABLE; Puszek betsy (rip girlie 🏄 🕄) megatron







Ethical Hacking (IT)

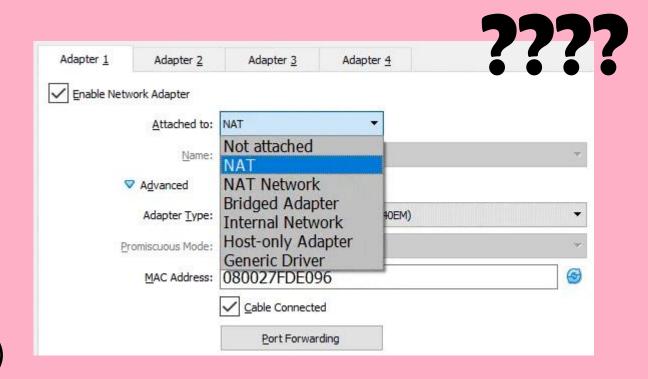


Your Company Name



Why do these exist????? (and mit are there so mant???)

- Virtual Networks simulate a real network (surprising I know)
- Allows for communication between VMs
- Removes the need for expensive hardware costs and maintenance
- Each has a different purpose (I think)





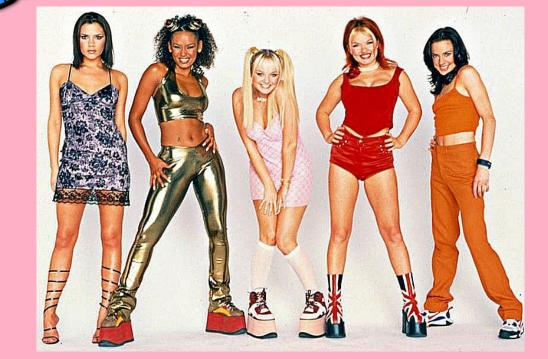
Not attached

NAT

NAT Network Bridged Adapter Internal Network Host-only Adapter Generic Driver

Potato Chips

OF RUE IN A STATE OF THE STATE



NOT ATTACHED





- Basically the virtual network equivalent of unplugging the ethernet cable
- NO NETWORK CONNECTION
- Literally useless because you can just turn off connection on other network types
- F Tier setting





(Network Address Translation)



- Default VirtualBox Network Setting
- Allows for communication with the internet
- Operates in a private network and is assigned a virtual IP address
- VM communicates with outside network through the host computer (which acts as a gateway)
- VM is isolated from the external network



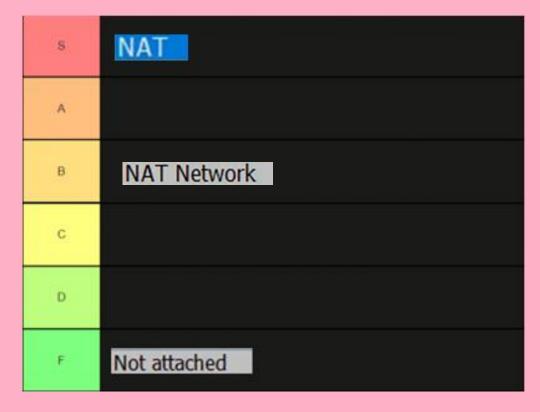
VMs in a NAT network





(yes there is a difference)

- Similar to NAT but provides a shared network between VMs
- VMs connected to the same NAT network can communicate with each other and share resources
- VMs on the NAT network CANNOT communicate with the host OR external networks without additional configuration (so much effort)

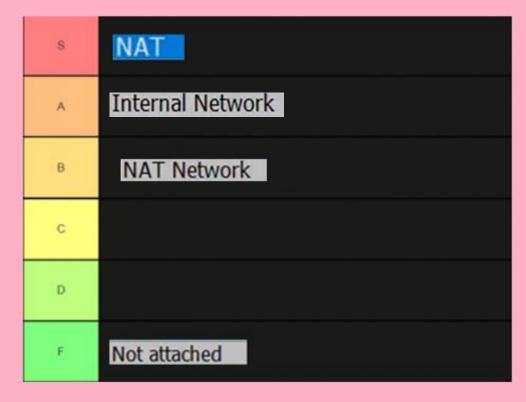








- Can communicate with other VMs in the internal network but NOT with the host machine OR external networks
- Can be used for modelling real networks
- Very safe





BRIDGED ADAPTER

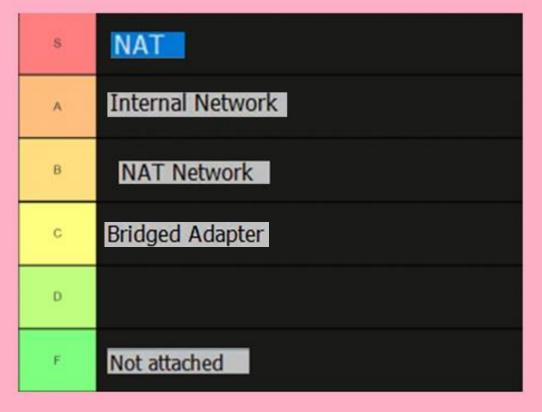
- VM acts as a standalone device on the network and is assigned a unique IP address
- Provides full access to the network BUT requires manual configuration of the VM's network settings

- Can be used to run servers on VMs that must be fully accessible from a physical local area

network



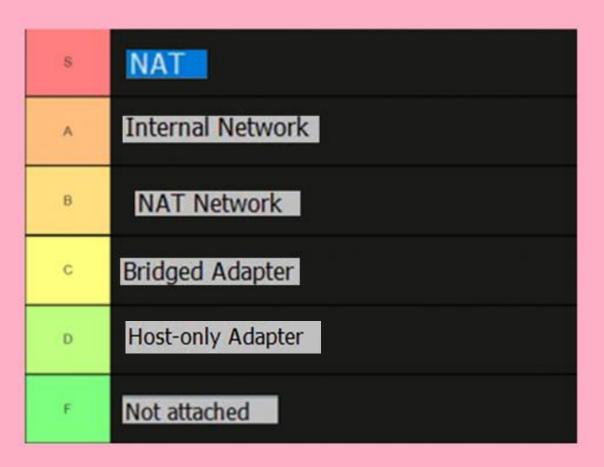




HOST-ONLY ADAPTER

- VM can communicate with other VMs connected to the host-only network AND the host machine
- Cannot communicate with any other devices outside of the host-only network
- Basically just internal network with access to the host



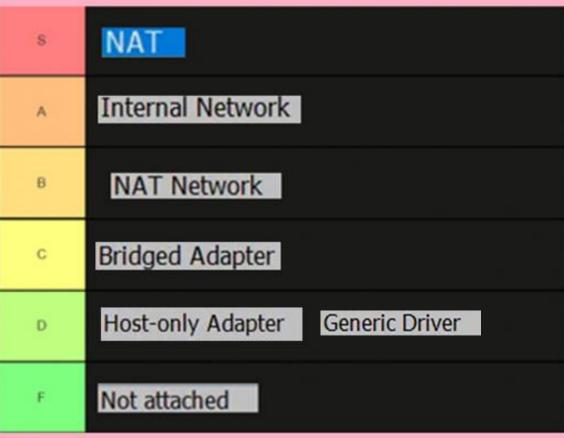


GENERIC DRIVER

- Kind of confusing IDK
- I'm sure it probably has a use for smart people?
- Sounds generic and boring
- Please don't ask me about this one

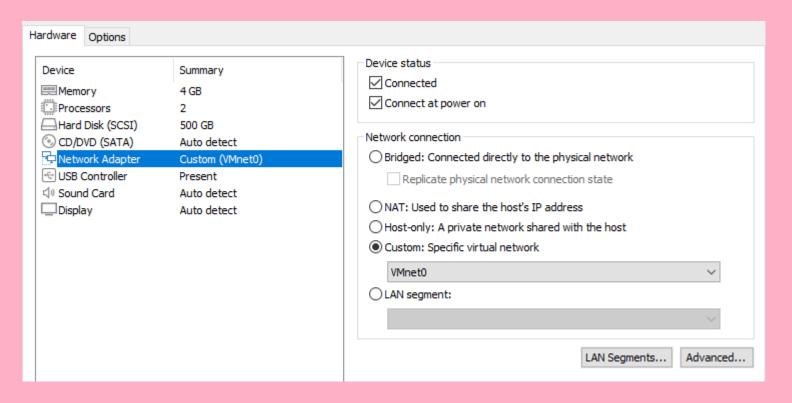








Custom: unassigned networks have access to each other AND the internet





IDK what a LAN segment is so it's probablyyyy not important?

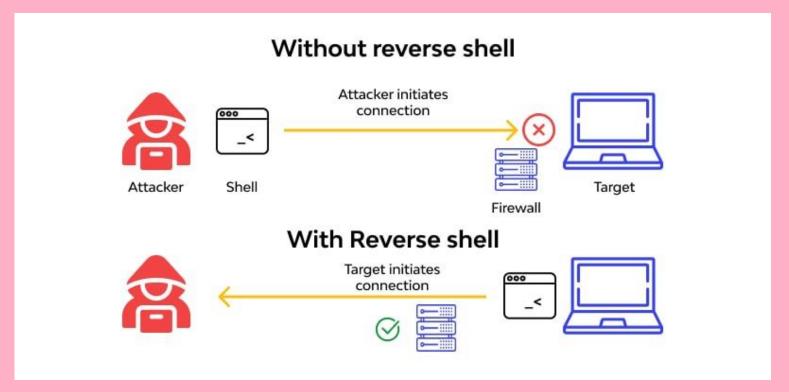




WHY ARE THE SHELLS REVERSING??

A reverse shell is a cyber attack that allows an attacker to remotely access a victim's computer

also known as remote shells or "connect-back shells"



02tCata

- A computer networking utility for reading from and writing to network connections using TCP or UDP
- Can be used for communication between devices
- Is used for port scanning and port listening

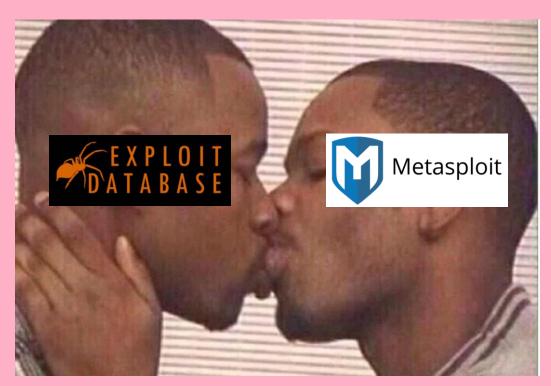
Netcat is listening on port 80





METASPLOITIIIIIIII





Linked to ExploitDB to bring you the latest and greatest exploit available in cmd!!

Command line-based application used for exploiting a range of vulnerabilities to get cool rev shells n stuff!





Has cool banner art