



Applied!

# Data & Network Security

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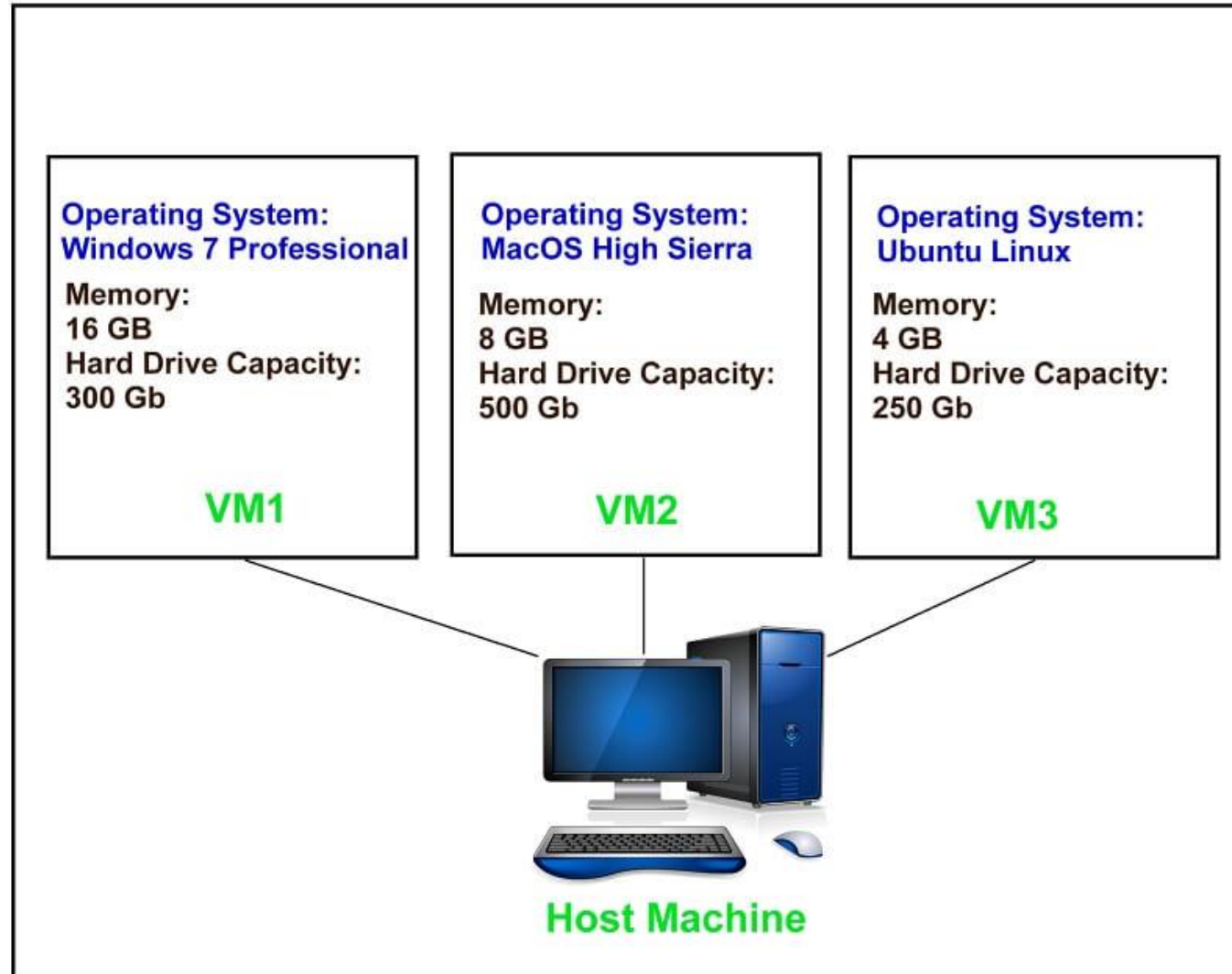
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# Useful Tools

# Virtual Machine

- A virtual machine (VM) is a software-based emulation of a physical computer that runs an operating system.
- VMWare workstation
- Virtual Box

# Virtual Machine

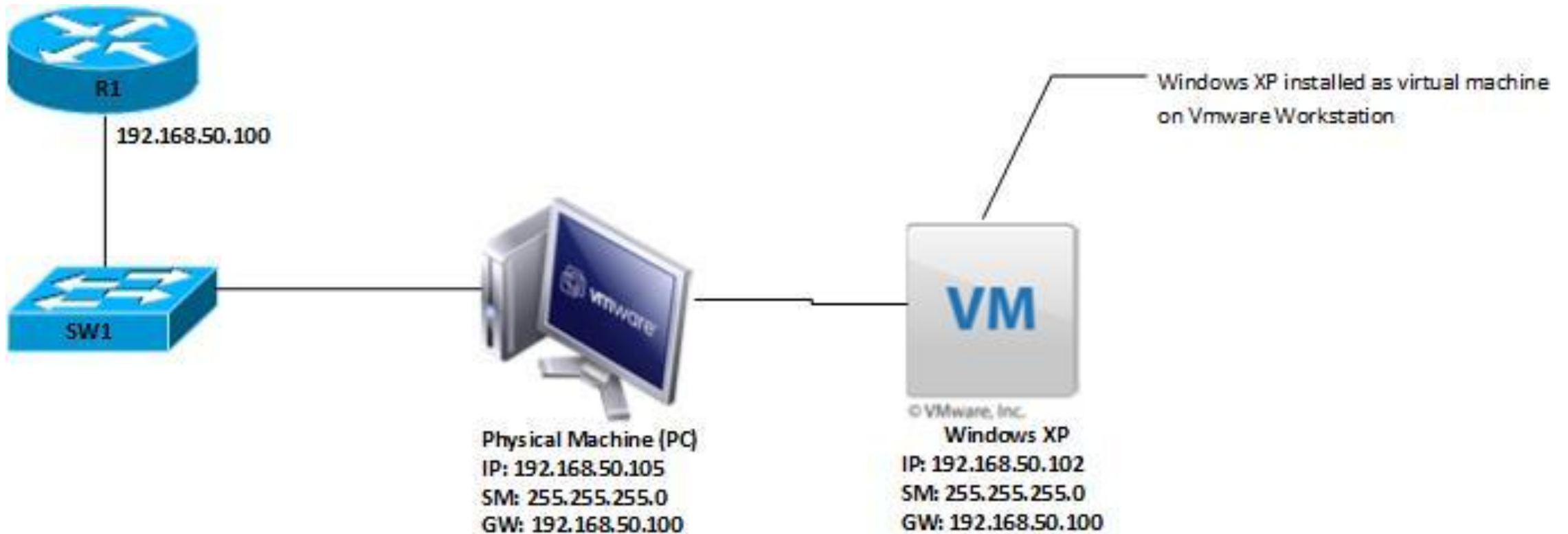


# Virtual Machine Usage

- Install another OS like Linux on windows
- Isolation of main OS from changes and damage
- Test tools or malware

# Virtual Machine Network

- Use Physical Machine network



# Kali Linux



- Kali Linux is a Debian-based Linux distribution
- Designed for penetration testing, ethical hacking, and network security
- It is widely used by security professionals, ethical hackers, and cybersecurity researchers
- Free & Open-Source
- Pre-installed Tools: Kali Linux comes with a vast array of pre-installed security tools and applications – **Save Install Time**

# Other

- There are several other operating systems similar to Kali Linux
  - Parrot OS
  - BlackArch
- We use Kali because it is easy and has more training resources
- You can test and use other distributions