

# **Cybersecurity Home Lab**

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# **The Main Idea**

There are many different technologies that a cybersecurity professional will have to be familiar with. Things like Domain Controllers, SIEMS, Vulnerability Scanners, and virtualized machines will all be a part of the environments we are meant to protect. That is why I have decided to create a Home Lab in order to emulate an enterprise environment and the different technologies that will likely be a large part of my career. This Lab environment is an opportunity to get real-world experience with different tools and showcase the knowledge that I have gained from university and certifications.

Here is what the lab will consist of:

- The Main PC
- The Domain Controller (Windows Server 2016 VM)
- Windows 10 Pro VMs
- Ubuntu VMs
- Vulnerable Windows 10 Pro VM
- RDP Server
- PFSense Firewall(VM)
- Vulnerability Scanner (Tenable Nessus VM)
- SIEM (Splunk VM)

# The Environment Diagram

