

# Network Security - Cybersecurity Track

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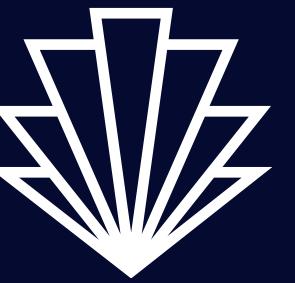
# Topics



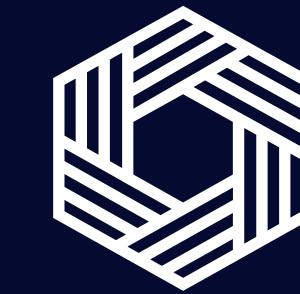
**What is it?**



**How is it  
related to  
Cybersecurity?**

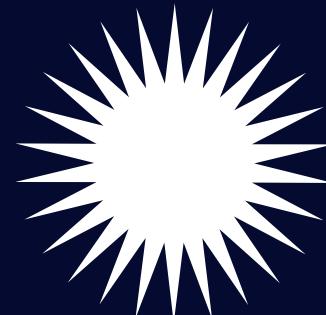


**Learning Plan**

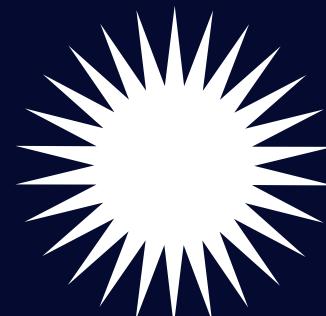


**Final Project**

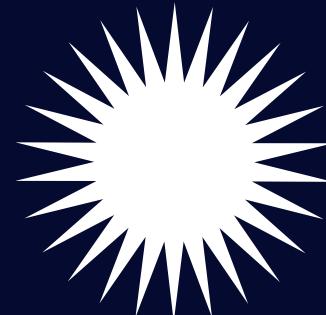
# What is Network Security?



Network Security is a field in Cybersecurity



Provides security for computer networks

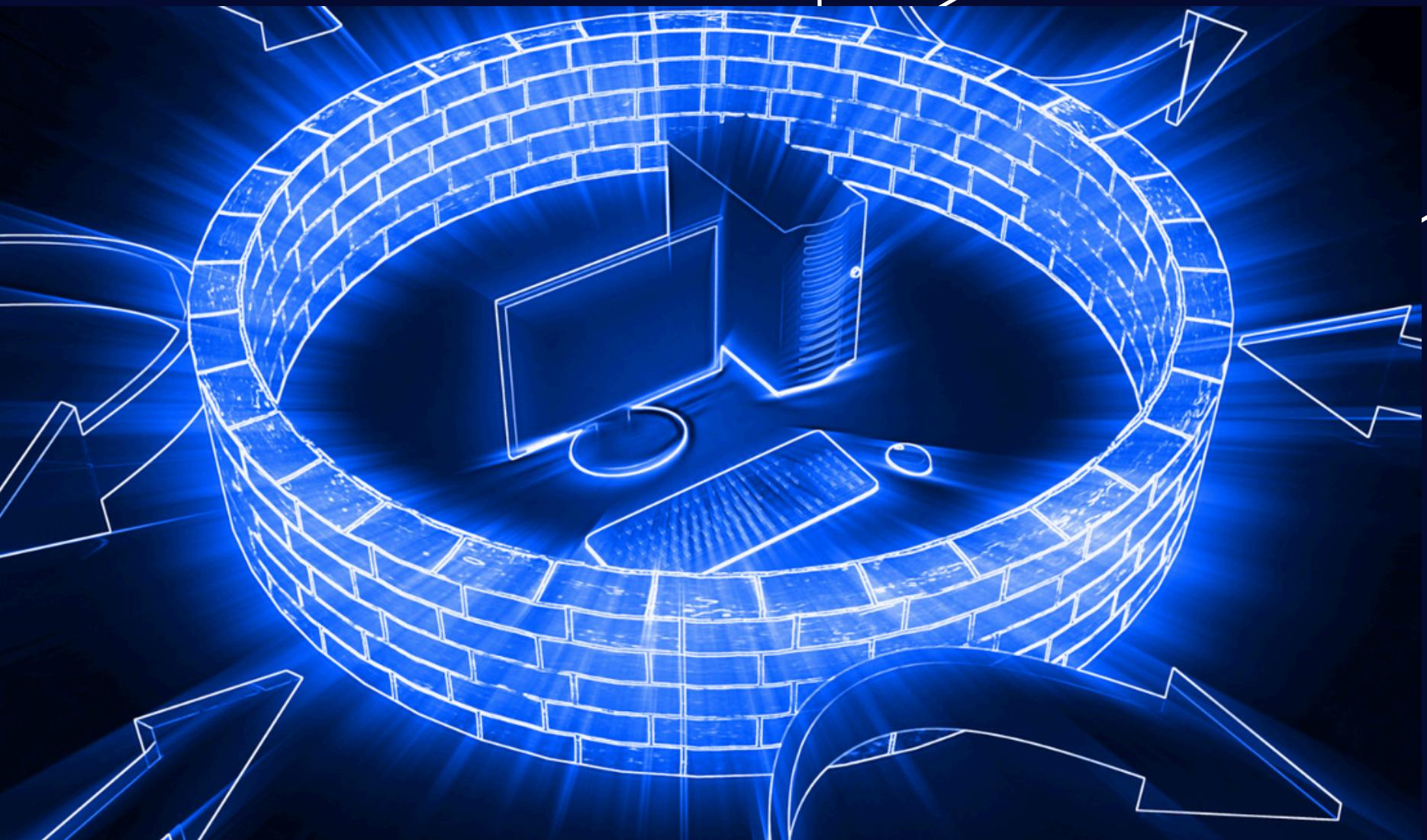


Policies, processes, and practices to detect and prevent malicious threats



# How Does It Relate to Cybersecurity?

- Uses anti-virus software, firewalls, and VPNs (Virtual Proxy Networks)
- Application Security and Network Analysis used to detect threats
- Uses cutting-edge technologies to constantly detect new threats daily



# Learning Plan

- Reinforcing the basics; honing the fundamental skills for Cybersecurity
- Expanding my knowledge on Python, JavaScript, C-based languages, and low-level such as Assembly
- Start curating my final project to cap off my learning

```
1 <?php
2
3 class foo {
4     public $file = "test.txt";
5     public $data = "text";
6     function __destruct()
7     {
8         file_put_contents($this->file, $this->data);
9     }
10 }
11
12 $file_name = $_GET['session_filename'];
13 print "Readfile " . $file_name . "<br>";
14 if(!file_exists($file_name))
15 {
16     print "no file\n";
17 }
18 else
19 {
20     unserialize(file_get_contents($file_name));
21 }
22 }
23 }
```

# Final Project

- Consists of majority of knowledge learned over the 10 month program
- White hat, ethical tool used to find and detect malicious activity inside a network before damage occurs
- Eradicates it from the system, able to alter protocols in the network to do that
- Can be used for detection on home/personal networks primarily, business use is time dependent



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