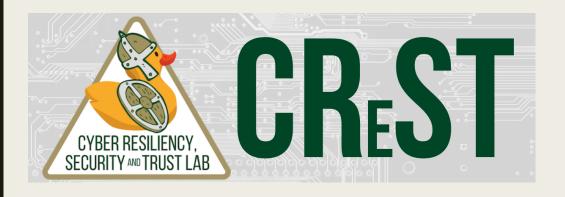
# A HACKERS GUIDE TO CHEAP NGFW'S



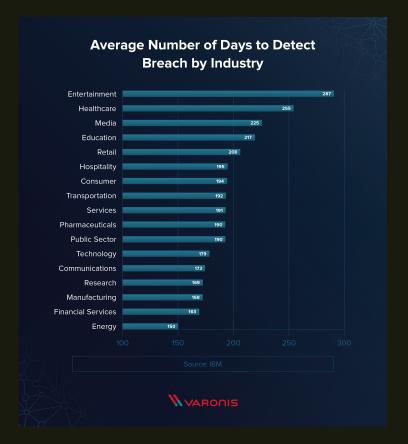
### Who am I

- PhD Student at UNC Charlotte
- Director of Education for Ethical Hacking Club
- Defense Competition Enthusiast



# Area of Research

- Resilient and Autonomic Systems
- Agile network environments
- Software Defined Networks and Linux Containers



#### **Autonomic**

- Self-\*(x)
- Resilient by Default
- Automated Intelligence
- IT and Cybersecurity Oriented

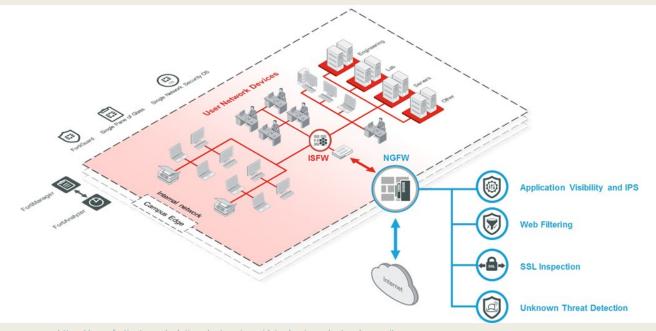
https://www.varonis.com/blog/data-breach-response-times/

### **NGFW**

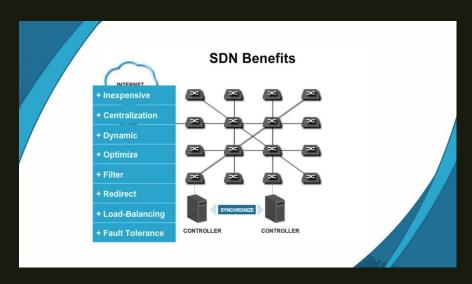
- Next generation firewall
- Policy Enforcement
- Sandboxing
- Intrusion Prevention



 $\underline{https://computersecuritypgp.blogspot.com/2016/04/next-generation-firewalls.html}$ 



https://www.fortinet.com/solutions/enterprise-midsize-business/network-security



https://www.youtube.com/watch?v=IPL\_oQT9tmc

# Software Defined Networking

- Programmatically managing a network
- Powering the Cloud and Datacenters
- Southbound management
- Northbound integration

#### Demo

- Snort Integration with Controller
- Automating Sandboxing of Scan

## NGFW

- Next generation firewall
- Policy Enforcement
- Sandboxing
- Intrusion Prevention



https://computersecuritypgp.blogspot.com/2016/04/next-generation-firewalls.html

Why is the important?

### Takeaways

- Automation needs to intelligently built in
- Software defined networks
- Making tools work for you

### Thank you

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- https://trevon.dev
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