IT Infrastructure Update

CARL Committee
September 22, 2020
Key Infrastructure Metrics
By the Numbers
Security – Blocked Attacks

August 2019
• Firewall/IDS
  • Total blocked: 137,603,384
  • Avg/second: 51.3
• Umbrella
  • Total blocked: 1,841,845
  • Avg/second: .68

August 2020
• Firewall/IDS
  • Total blocked: 118,434,560
  • Avg/second: 44.2
• Umbrella
  • Total blocked: 3,220,322
  • Avg/second: 1.2
Network

• Volume:
  • 595TB downloaded in August
    • equivalent to streaming 395 movies/hour
  • Peak at 37.4TB on August 25th

• Speed:
  • Average is down 50%
  • Peak is up 14%
Wireless Devices

• August Total: 48,232 (unique)
iSpartan Account Logins

2019
• August Total: 1,096,420
• Peak: 69,806 (August 20th)

2020
• August Total: 1,263,093
• Peak: 76,273 (August 18th)
Services - Canvas

- August Daily Average: 14,092
- Peak Daily: 26,854 (August 18th)
- August Total: 436,854
Services - Zoom

- August Daily Average: 1,289
- Peak Daily: 2,729 (August 24th)
- August Total: 39,980
Services - VPN

- August Peak Concurrent: 168 (August 19th)
- August Total: 64,655
Typical Infrastructure

[Diagram showing the connection between a remote user, a VPN connection, and a campus network via the internet.]
UNCG Infrastructure
Related IT Projects

Completed
• Student Desktop
• Remote Lab Access
• Zoom/SLMS

In Process
• Internet Bandwidth Increase
• Virtual Lab Service Offering
• Cloud Managed Desktop
• Cloud Scalable Citrix Infrastructure
• Voice Migration
Related Security Threats

- Ransomware
- University Owned Devices
- LMS Security Assessment