



# IT Infrastructure Update

CARL Committee  
September 22, 2020



# Key Infrastructure Metrics

By the Numbers



# Security – Blocked Attacks

## August 2019

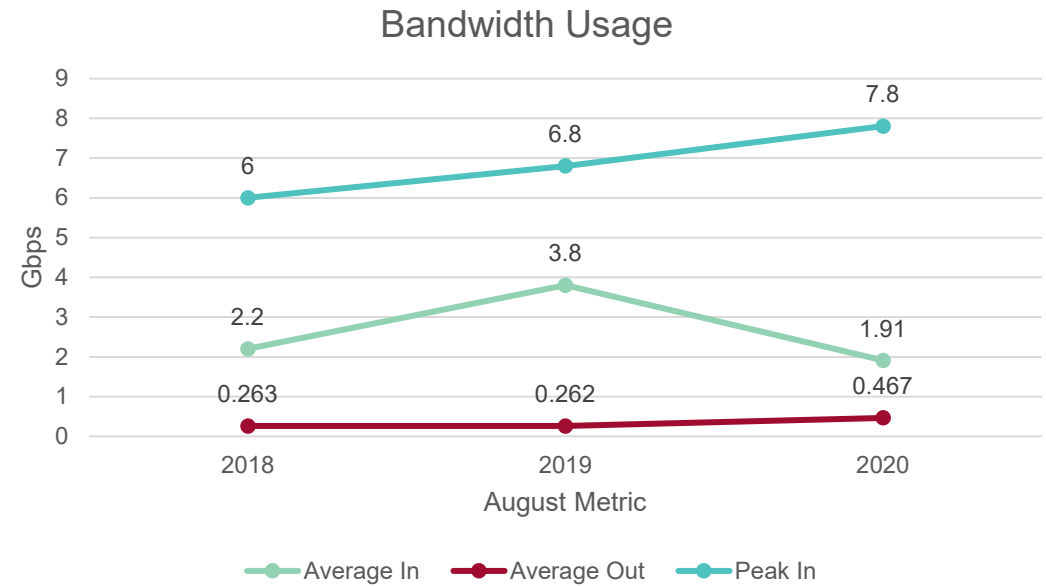
- Firewall/IDS
  - Total blocked: 137,603,384
  - Avg/second: 51.3
- Umbrella
  - Total blocked: 1,841,845
  - Avg/second: .68

## August 2020

- Firewall/IDS
  - Total blocked: 118,434,560
  - Avg/second: 44.2
- Umbrella
  - Total blocked: 3,220,322
  - Avg/second: 1.2

# Network

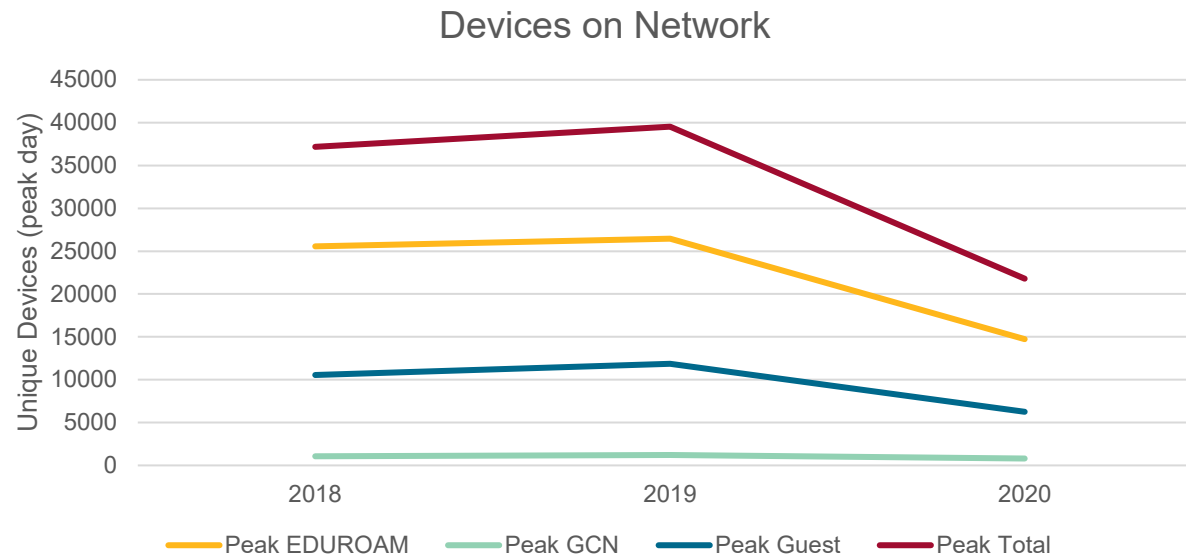
- Volume:
  - 595TB downloaded in August
    - equivalent to streaming 395 movies/hour
  - Peaked at 37.4TB on August 25th
- Speed:
  - Average is down 50%
  - Peak is up 14%





# Wireless Devices

- August Total: 48,232 (unique)





# iSpartan Account Logins

## 2019

- August Total: 1,096,420
- Peak: 69,806 (August 20<sup>th</sup>)

## 2020

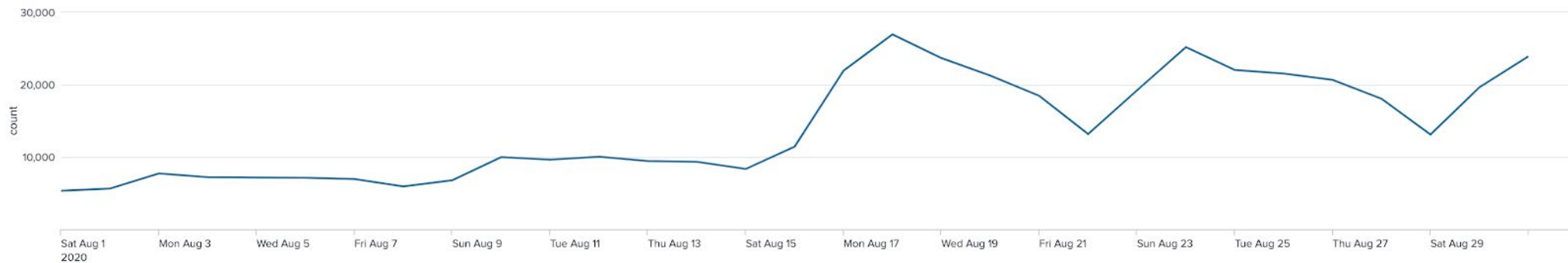
- August Total: 1,263,093
- Peak: 76,273 (August 18<sup>th</sup>)



Find your way here

# Services - Canvas

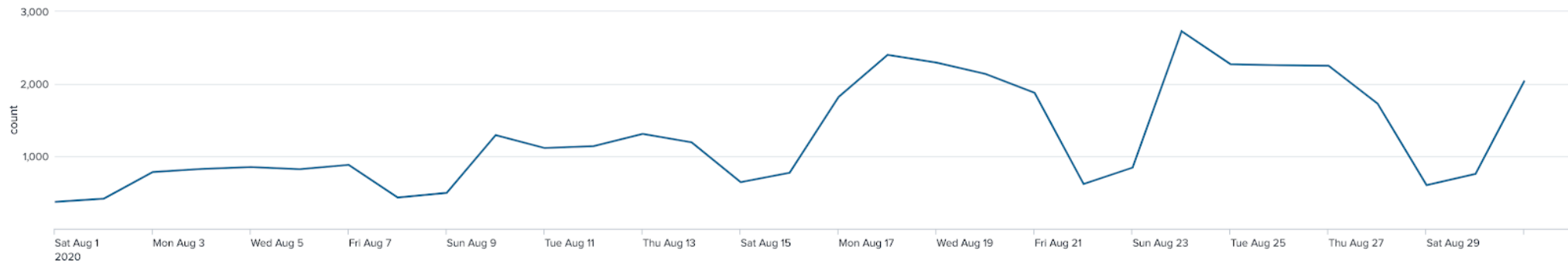
- August Daily Average: 14,092
- Peak Daily: 26,854 (August 18<sup>th</sup>)
- August Total: 436,854





# Services - Zoom

- August Daily Average: 1,289
- Peak Daily: 2,729 (August 24<sup>th</sup>)
- August Total: 39,980





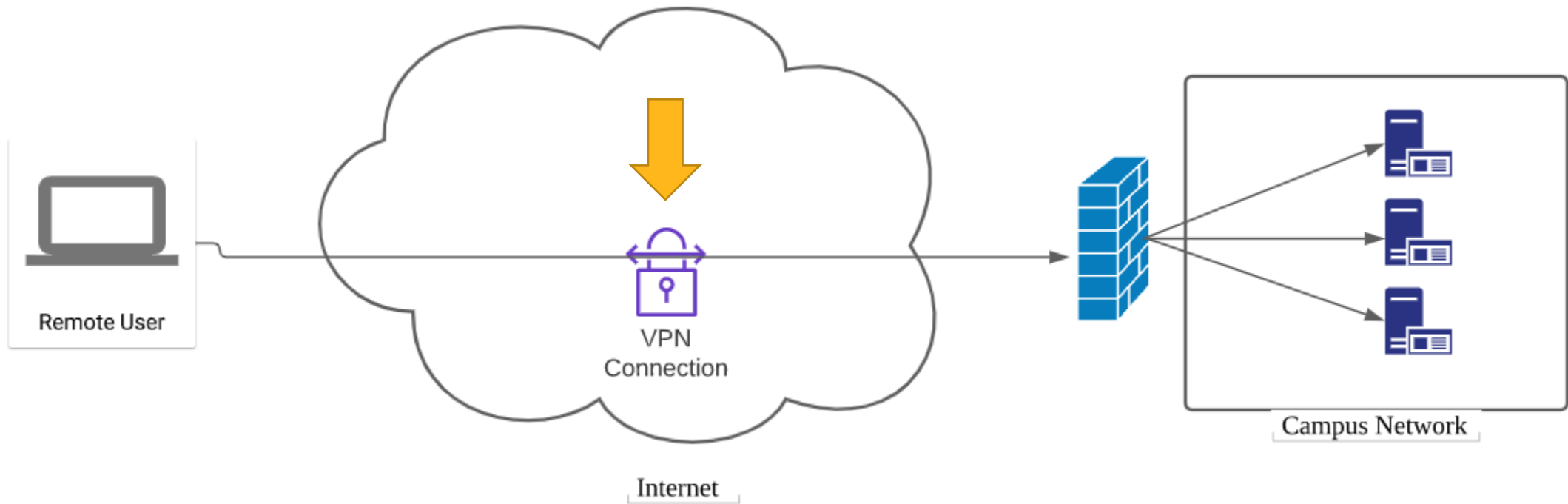


# Services - VPN

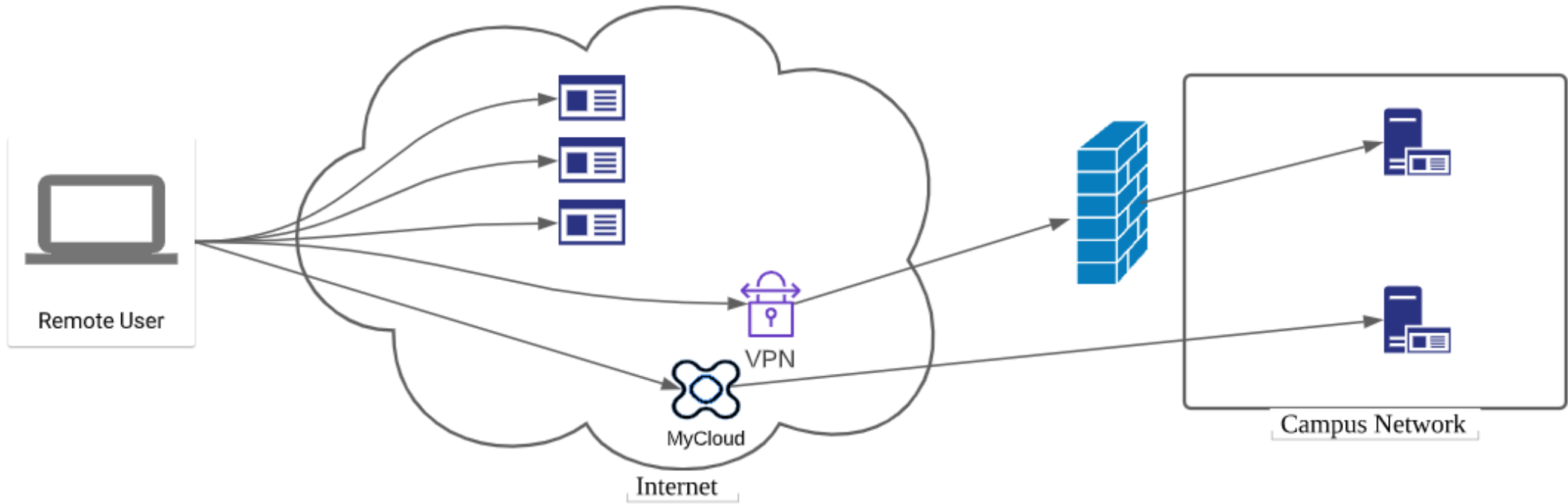
- August Peak Concurrent: 168 (August 19<sup>th</sup>)
- August Total: 64,655



# Typical Infrastructure



# UNCG Infrastructure





*Find your way here*

# 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



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**GREENSBORO**

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