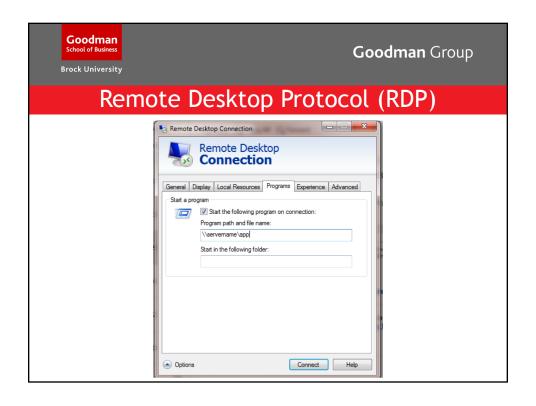
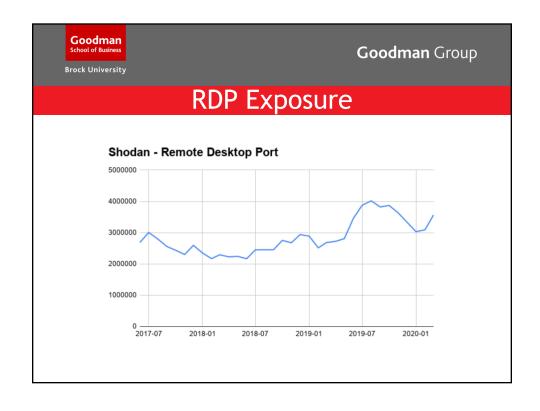






- How has COVID-19 shaped the security issues?
- What are the security risks associated with working at home?
- What practical steps can individuals take to minimize security risks?
- What kind of security infrastructure should we build after COVID-19?

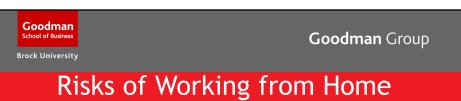




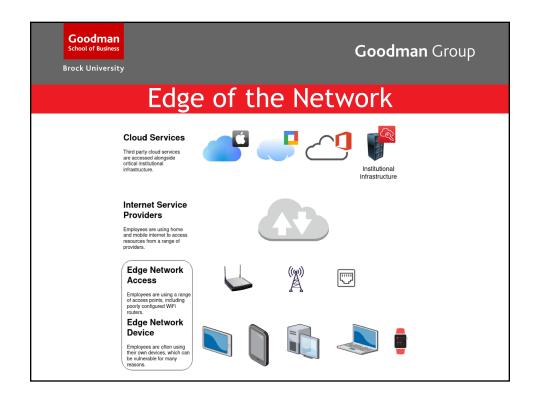


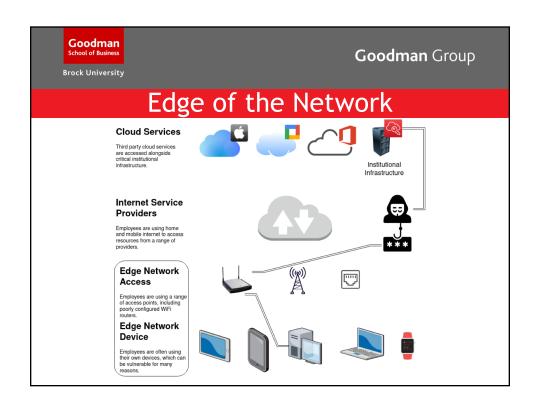


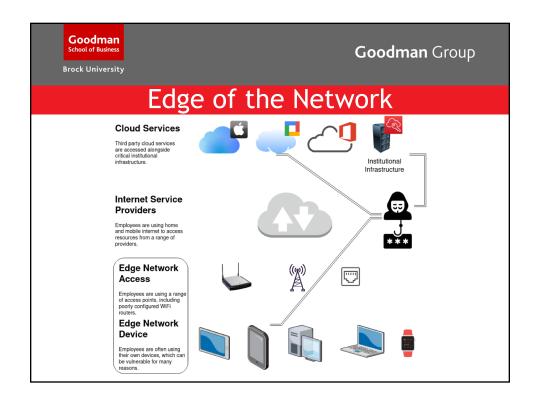




- Bring your own device (BYOD)
- Residential Internet Service Provider (ISP)
- Employee configured WiFi access
- Disrupted or irregular communication patterns









## At Home Security Practices

- BYOD
  - Update your operating system regularly
  - Use strong passphrases
  - Use Second Factor Authentication (2FA)
  - Use a mainstream browser
  - Update your browser regularly
  - Avoid browser plugins
  - Avoid Electron based desktop apps
  - Use mobile device for simple tasks



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#### At Home Security Practices

- Network Access
  - Buy a new WiFi router
  - Update router firmware
  - Use strong passphrases
  - · Avoid naming your router in an identifying way
  - Configure your router:
    - Avoid Wired Equivalent Privacy (WEP)
    - Disable Wi-Fi Protected Setup (WPS)
    - Use Wi-Fi Protected Access 2 (WPA2)
    - If able, also use Advanced Encryption Standard (AES)



### At Home Security Practices

- Regular Communication Practices:
  - Separate personal and professional communication
  - Use a single platform to communicate
  - · Do not load images by default in email
  - Do not open unexpected files
  - Seek confirmation from sender before opening
  - Hover over links to ensure the correct destination
  - Slow down
  - When in doubt, ask



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#### Post COVID-19 Security

- Working remotely (in part) is our new normal
- Edge network access and devices will be varied and unpredictable
- Threat actors are technical, international, and highly motivated
- Ransomware attacks are proliferating and can cripple corporations, public institutions, and governments
- Cybersecurity insurance costs are increasing



# Post COVID-19 Security

- Zero trust architecture is a new, evolving standard predicated on the following:
  - Single strong source of user identity
  - User authentication
  - Machine authentication
  - Additional context, such as policy compliance and device health
  - Authorization policies to access an application
  - Access control policies within an application





Thank you for joining us.

See you in 2021!

Next session will take place on January 13, 2021

Taking businesses, careers and ideas to the next level



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