Multi-Factor Authentication
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Background
Multi-Factor Authentication (MFA):

• NRAO risk register item:

| CYB-31 | O, I | Lack of Multifactor Authentication for remote access | Multifactor authentication greatly reduced the potential for account compromise |

• Pre-condition for Ransomware Insurance
• Now required by JAO
• Definition: Something you know & something you have
  – Usually a Passphrase and a unique/secure “item”
• MFA roll-out has been documented in memo: NRAO-476-1739
  – VPN first
  – Thereafter other key services: SSH, E-mail, Web-services, computer login etc.
Executive summary: MFA for VPN

Current: Password only

With MFA

Multi-Factor Authentication for NRAO
Adoption of Duo App and YubiKey USB “dongle”

VPN login options

• Documentation on the info site: Computing Guide/Network access/Cisco Duo MFA

• There will be an extra step when you enter your VPN password:

  Option 1: Enter password then “,” and a 6-digit code from the Duo App

  Option 2: Enter password then “,” and tap the YubiKey logo

  Option 3: “Approve” the Duo pop-up alert (App needs network)
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