

Cisco CCNA (200-301)

Identify Elements of Password Policy

Learning Objectives: Define elements of a password policy.

Description: In business, security begins and ends with policy. You will learn about one example of a pervasive policy dealing with end-users and how they access resources across the network.

Q: What do you mean by password management on Cisco Devices?

- Management
 - How are passwords managed on Cisco Devices?
 - enable password
 - Username/password database
 - Line console password
 - line vty password
 - Locally stored on router in startup-config
 - Can use Remote Authentication
 - RADIUS/TACACS+
 - password-recovery 0x2142

Q: Can you remind about password complexity?

- Complexity
 - Passwords should not be easy
 - Should involve level of complexity
 - No names, dates, sequence of numbers
 - Should include alphabetic, numbers, special characters
 - Min of 8 characters
 - e.g. NOT: Password1. but P4t@2B9\$7VJb%xYt

Q: Is it possible to have some password complexity on Cisco devices?

- ```
NYEDGE1#
NYEDGE1#show passwords configuration
NYEDGE1#configure terminal
NYEDGE1(config)#security password min length 8
NYEDGE1#show passwords configuration
```

#### Q: What alternatives do we have than just relying on passwords?

- Password Alternatives
  - multifactor authentication (2 of 3)
    - Something you know (PIN, Pattern or Password)
    - Something you have (e.g. Yubikey)
    - Something you are
      - biometrics (Fingerprint, FaceID, Iris ID)
  - certificates (digital)
    - `crypto key generate rsa`

#### Endnotes, External and Etc.

- 5.4 Describe security password policies elements, such as management, complexity, and password alternatives (multifactor authentication, certificates, and biometrics)