

Week 14

Unix/Linux
Network Controls



Tonight's Plan

- Questions from Last Week
- Review on-line posts
- □ In The News
- Network Controls
- Review for Test 2
- Assignment 4
- Next Week
- Quiz



Questions From Last Week

- Any Questions from last week?
- Review of quiz questions
 - How to you enable logging on Unix/Linux
 - Remember using iptables with (iptables -A INPUT -j LOGGING)
 - How do you watch the firewall log on Unix/Linux
 - Tail the messages file under logs
 - Kali CIS baseline
 - Know the half a dozen commands used to apply a baseline to Kali



Questions From Last Week (cont)

Any additional questions?



Review on-line posts

- Review of on-line posts
 - One post from Sev
 - IOT Hack
 - https://www.dailydot.com/debug/casino-hack-fishtank/?utm_content=casino-hack-fishtank&utm_medium=syndication&utm_source=LinkedIn&utm_name =linkedin-syndication
 - One post from Fred
 - Scans for home routers (Change router defaults)
 - https://www.us-cert.gov/ncas/alerts/TA18-106A



Review on-line posts (Cont)

□ Questions?



In the News

- When Identity Thieves Hack Your Accountant
 - The Internal Revenue Service has been urging tax preparation firms
 - https://krebsonsecurity.com/2018/04/when-identity-thieves-hackyour-accountant/
- Use of Secure VPN to use the internet
 - Protect you browsing from your ISP
 - http://thehackernews.com/2017/03/secure-vpn-services.html
- 'iTunes Wi-Fi Sync' Feature Could Let Attackers Hijack Your iPhone, iPad Remotely
 - Why you should always carry your...
 - https://thehackernews.com/2018/04/iphone-itunes-wifi-sync.html



In the News (Cont)

Questions?



- What is network controls?
- How do we use them?
- □ How do we configure them?
- How is this different from Windows networking controls?



- What is network controls?
 - A method of defining what computers are allowed to talk to services on our Unix/Linux system
 - This is similar to what we saw on Windows with the Network Controls, but Users and/or Computers allows or exceptions







- □ How do we use them?
 - Manage the .deny and the .allow file
 - Create rules that list where (ip address) services can connect to our operating system
 - In conjunction with FireWall rules
 - Review the man pages
 - man hosts.allow
 - man hosts.deny
 - Example:
 - /etc/hosts.deny
 - finger : ALL : DENY



- □ How do we configure them?
 - Modify the following for deny
 - /etc/hosts.deny
 - Modify the following for allow
 - /etc/hosts.allow



- How is this different from Windows networking controls?
 - These settings are part of the networking layer where as on Windows it is part of the FireWall layer
- Prevent Root from using SSH
 - Modify /etc/ssh/sshd_config
 - Change the line PermitRootLogin
- □ Demo



Review for Test 2

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- □ Review Quiz 5
- Review Quiz 6
- Review Quiz 7



Review for Test 2 (Quiz 5)

- Any Questions from last week?
 - Windows FireWall Logging
 - How do we enable it?
 - Server Manager
 - Windows FireWall configuration that protects protocols
 - Telent would an insecure protocol
 - IPSec is the configuration that protects insecure protocols
 - How do you turn this on?
 - These are listed under "Windows Security Rules"
 - What is as important as enabling logging?



Review for Test 2 (Quiz 6)

- Any Questions from last week?
- Review of quiz questions
 - How do you create a Unix/Linux script?
 - Remember you need to create it and use chmod to set the execution bit
 - SHA 1 has been cracked
 - Why is sha256
 - CRC is used for communication verification not mathematical summations
 - How do you get the members of a group
 - Right: getent group <Group Name>
 - Wrong: cat /etc/group



Review for Test 2 (Quiz 7)

- Any Questions from last week?
- Review of quiz questions
 - What are Unix/Linux start-up modes? Run Levels? Init Levels? (40%)
 - /etc/rc*.d
 - service --status-all
 - How would you uninstall a package? (42%)
 - Remember installing and removing packages uses apt-get
 - Kali CIS baseline
 - Know the half a dozen commands used to apply a baseline to Kali



Assignment 4 Review

- Shared VM's with the Wade's class
- Will get the results
- Will post the grades; may have a field trip or Saturday class to talk about the findings and/or corrections



Next Week

- Test 2 will be based on this week's Network Controls and slides from the second half of the class.
- Review of Assignment 4 findings
- □ Test 2



We can start the Quiz

