# **Cybersecurity 100 MCQ Practice Quiz**

Topics: Bandit Lab Commands (20), OSI Model (20), Subnetting (20), Ports (10), OSINT (15), SSH & Networking Security (15).

# **Bandit Lab Commands (20)**

Bandit Lab Commands (20)
<ul><li>1. Which command displays file contents?</li><li>A) Is</li><li>B) cat</li><li>C) cd</li><li>D) chmod</li></ul>
2. List hidden files? A) Is -a B) Is -h C) Is -I D) Is -r
<ul><li>3. Show current directory?</li><li>A) pwd</li><li>B) dir</li><li>C) Is</li><li>D) cd</li></ul>
<ul><li>4. Copy a file?</li><li>A) mv</li><li>B) cp</li><li>C) scp</li><li>D) copy</li></ul>
<ul><li>5. Move or rename file?</li><li>A) mv</li><li>B) rm</li><li>C) rename</li><li>D) del</li></ul>
6. Delete file? A) remove B) rm C) del D) erase
7. Show permissions? A) Is -I B) chmod C) whoami D) cat
<ul><li>8. Change file permission?</li><li>A) chmod</li><li>B) chown</li><li>C) sudo</li><li>D) perm</li></ul>
<ul><li>9. Change file owner?</li><li>A) chmod</li><li>B) chown</li><li>C) own</li><li>D) su</li></ul>

10. Show manual?

A) help B) man

C) doc D) guide 11. Search text inside files? A) grep B) find C) locate D) cat 12. Find files by name? A) locate B) search C) grep D) whereis 13. Show first 10 lines? A) head B) top C) less D) more 14. Show last 10 lines? A) bottom B) tail C) last D) more 15. Read file one page at a time? A) more B) less C) cat D) grep 16. Count words in file? A) count B) wc C) grep D) echo 17. Connect remote host? A) ssh user@host B) ftp C) connect D) telnet 18. Display processes? A) ps B) proc C) show D) top 19. Kill a process? A) stop

B) kill PID C) end D) rm

A) gzip B) tar C) zip

20. Compress a file?

D) All of the above

### OSI Model (20)

- 21. How many OSI layers?
- A) 5
- B) 6
- C) 7
- D) 8
- 22. Layer responsible for routing?
- A) Network
- B) Data Link
- C) Transport
- D) Session
- 23. Physical layer deals with?
- A) Bits
- B) Packets
- C) Frames
- D) Segments
- 24. Transport layer protocol?
- A) TCP/UDP
- B) IP
- C) ARP
- D) ICMP
- 25. Network layer uses?
- A) IP
- B) MAC
- C) Port
- D) DNS
- 26. Data link layer function?
- A) Framing
- B) Routing
- C) Encryption
- D) Segmentation
- 27. Session layer function?
- A) Connection control
- B) Routing
- C) Framing
- D) Error check
- 28. Application layer example?
- A) HTTP
- B) TCP
- C) IP
- D) Ethernet
- 29. Which layer ensures reliable delivery?
- A) Transport
- B) Network
- C) Data Link
- D) Session
- 30. MAC address works in which layer?
- A) Data Link
- B) Network
- C) Physical
- D) Transport
- 31. Encapsulation starts from?
- A) Application
- B) Physical
- C) Network

- D) Transport
- 32. Decapsulation starts from?
- A) Physical
- B) Application
- C) Network
- D) Transport
- 33. DNS works at which layer?
- A) Application
- B) Network
- C) Data Link
- D) Session
- 34. ARP works at which layer?
- A) Data Link
- B) Network
- C) Physical
- D) Transport
- 35. Which layer handles logical addressing?
- A) Network
- B) Data Link
- C) Transport
- D) Physical
- 36. Which layer segments data?
- A) Transport
- B) Network
- C) Session
- D) Physical
- 37. SMTP operates at?
- A) Application
- B) Session
- C) Network
- D) Transport
- 38. Frame check sequence belongs to?
- A) Data Link
- B) Physical
- C) Network
- D) Application
- 39. ICMP operates at?
- A) Network
- B) Data Link
- C) Transport
- D) Session
- 40. Flow control is at?
- A) Transport
- B) Network
- C) Application
- D) Session

### Subnetting (20)

- 41. How many hosts in /24?
- A) 254
- B) 255
- C) 256
- D) 512
- 42. Subnet mask of /26?
- A) 255.255.255.192
- B) 255.255.255.128
- C) 255.255.254
- D) 255.255.255.0
- 43. /30 gives how many usable IPs?
- A) 2
- B) 4
- C) 6
- D) 8
- 44. /28 usable hosts?
- A) 14
- B) 16
- C) 12
- D) 10
- 45. Class C default mask?
- A) 255.255.255.0
- B) 255.255.0.0
- C) 255.0.0.0
- D) 255.255.255.128
- 46. /25 means how many subnets?
- A) 2
- B) 4
- C) 8
- D) 16
- 47. 192.168.10.64/26 usable range?
- A) 192.168.10.65-192.168.10.126
- B) 192.168.10.64-192.168.10.127
- C) 192.168.10.62-192.168.10.124
- D) 192.168.10.63-192.168.10.125
- 48. Broadcast address of 10.0.0.0/8?
- A) 10.255.255.255
- B) 10.0.0.255
- C) 10.255.255.0
- D) 10.10.10.255
- 49. Private IP range?
- A) 192.168.0.0-192.168.255.255
- B) 172.16.0.0-172.31.255.255
- C) 10.0.0.0-10.255.255.255
- D) All of the above
- 50. /16 hosts?
- A) 65534
- B) 254
- C) 512
- D) 1024
- 51. CIDR means?
- A) Classless Inter-Domain Routing
- B) Class In Domain Range
- C) Connectionless Data Routing

D) Circuit Data Route
52. What is 255.255.255.240 in CIDR? A) /28 B) /29 C) /30 D) /31
53. Network ID of 192.168.15.77/28? A) 192.168.15.64 B) 192.168.15.72 C) 192.168.15.80 D) 192.168.15.0
54. Which subnet mask gives 8 hosts? A) /29 B) /28 C) /27 D) /30
55. First usable in 172.16.10.0/24? A) 172.16.10.1 B) 172.16.10.0 C) 172.16.10.254 D) 172.16.10.255
56. Broadcast in /29 (example .0/29)? A) .7 B) .8 C) .6 D) .5
57. How many /24 networks fit into /22? A) 4 B) 8 C) 16 D) 1
58. IPv6 address size? A) 128 bits B) 64 bits C) 32 bits D) 256 bits
59. Link-local IPv6 prefix? A) fe80::/10 B) fd00::/8 C) ff00::/8 D) fc00::/7
60. Multicast IPv6 prefix? A) ff00::/8 B) fe80::/10 C) fc00::/7 D) fd00::/8
61. Usable hosts in /31? A) 0 B) 1 C) 2 D) None

# **Ports (10)**

- 62. SSH port?
- A) 22
- B) 23
- C) 80
- D) 21
- 63. FTP port?
- A) 20/21
- B) 22
- C) 25
- D) 110
- 64. HTTP port?
- A) 80
- B) 443
- C) 8080
- D) 22
- 65. HTTPS port?
- A) 443
- B) 80
- C) 25
- D) 22
- 66. DNS port?
- A) 53
- B) 110
- C) 143
- D) 25
- 67. SMTP port?
- A) 25
- B) 110
- C) 143
- D) 53
- 68. POP3 port?
- A) 110
- B) 25
- C) 53
- D) 80
- 69. IMAP port?
- A) 143
- B) 25
- C) 53
- D) 110
- 70. RDP port?
- A) 3389
- B) 80
- C) 21
- D) 22
- 71. Telnet port?
- A) 23
- B) 22
- C) 21
- D) 80

#### **OSINT (15)**

- 72. What does OSINT stand for?
- A) Open Source Intelligence
- B) Open Security Internet
- C) Online Surveillance Intelligence
- D) None of the above
- 73. Tool used for email reconnaissance?
- A) theHarvester
- B) Hydra
- C) Nmap
- D) Wireshark
- 74. Tool for metadata extraction?
- A) ExifTool
- B) Hashcat
- C) Netcat
- D) Aircrack-ng
- 75. Tool for social media analysis?
- A) Maltego
- B) Wireshark
- C) Hydra
- D) Nikto
- 76. Google dork example?
- A) site:example.com
- B) port:80
- C) find:admin
- D) url:search
- 77. Tool to find breached emails?
- A) HavelBeenPwned
- B) Nmap
- C) Sublist3r
- D) Wireshark
- 78. Social media username hunter?
- A) Sherlock
- B) Gobuster
- C) Hashcat
- D) Nikto
- 79. Subdomain enumeration tool?
- A) Sublist3r
- B) Gobuster
- C) Dirb
- D) Hydra
- 80. Website scanning tool?
- A) Nikto
- B) Wireshark
- C) Aircrack-ng
- D) John the Ripper
- 81. DNS information tool?
- A) nslookup
- B) Nmap
- C) Nikto
- D) Gobuster
- 82. What is Shodan?
- A) Search engine for internet-connected devices
- B) Malware
- C) Proxy

- D) Port scanner
- 83. OSINT focuses on?
- A) Publicly available data
- B) Hacking servers
- C) Brute force attacks
- D) Malware development
- 84. Recon-ng is used for?
- A) OSINT automation
- B) Packet capture
- C) Password cracking
- D) Malware analysis
- 85. Tool for IP geolocation?
- A) ipinfo.io
- B) Hydra
- C) Hashcat
- D) Wireshark
- 86. What is SpiderFoot?
- A) OSINT automation tool
- B) Password cracker
- C) Port scanner
- D) Proxy tool

#### **SSH & Networking Security (15)**

- 87. SSH full form?
- A) Secure Shell
- B) Super Server Host
- C) Safe Socket Handler
- D) Secure Host Handler
- 88. Generate SSH key?
- A) ssh-keygen
- B) ssh-add
- C) ssh-copy-id
- D) ssh-config
- 89. Default SSH directory for user keys?
- A) ~/.ssh
- B) /etc/ssh
- C) /root/ssh
- D) /home/keys
- 90. Copy SSH key to remote host?
- A) ssh-copy-id user@host
- B) scp id\_rsa user@host:~
- C) rsync id rsa user@host:~
- D) ftp id\_rsa user@host
- 91. SSH protocol runs over which transport?
- A) TCP
- B) UDP
- C) ICMP
- D) Both TCP and UDP
- 92. Local port forwarding flag?
- A) -L
- B) -R
- C) -D
- D) -P
- 93. Dynamic port forwarding flag (SOCKS proxy)?
- A) -D
- B) -L
- C) -R
- D) -T
- 94. SSH config for server settings?
- A) /etc/ssh/sshd\_config
- B) ~/.ssh/config
- C) /etc/ssh/ssh\_config
- D) /etc/config
- 95. Which key type is recommended modern default?
- A) Ed25519
- B) DSA
- C) RSA (1024)
- D) MD5
- 96. Command to add private key to ssh-agent?
- A) ssh-add ~/.ssh/id ed25519
- B) ssh-add -I
- C) ssh-keygen -t ed25519
- D) ssh-copy-id
- 97. Disable password authentication in SSH config?
- A) PasswordAuthentication no
- B) PasswordAuth no
- C) UsePassword no

- D) NoPassword yes
- 98. Which file holds authorized public keys on remote?
- A) ~/.ssh/authorized\_keys
- B) ~/.ssh/known\_hosts
- C) /etc/ssh/ssh\_known\_hosts
- D) ~/.ssh/id\_rsa.pub
- 99. Agent forwarding allows?
- A) Use local keys on remote host
- B) Copy keys to remote
- C) Disable authentication
- D) Change passwords remotely
- 100. How to run a remote command over SSH?
- A) ssh user@host 'command'
- B) ssh -cmd user@host
- C) ssh -r user@host command
- D) ssh user@host -c command
- 101. Which tool can test SSH on a server during pentest?
- A) Nmap with ssh-brute scripts or Hydra
- B) Nikto
- C) ExifTool
- D) SpiderFoot

## **Answer Key**

- 1. B) cat
- 2. A) Is -a
- 3. A) pwd
- 4. B) cp
- 5. A) mv
- 6. B) rm
- 7. A) ls -l
- 8. A) chmod
- 9. B) chown
- 10. B) man
- 11. A) grep
- 12. A) locate
- 13. A) head
- 14. B) tail
- 15. B) less
- 16. B) wc
- 17. A) ssh user@host
- 18. A) ps
- 19. B) kill PID
- 20. D) All of the above
- 21. C) 7
- 22. A) Network
- 23. A) Bits
- 24. A) TCP/UDP
- 25. A) IP
- 26. A) Framing
- 27. A) Connection control
- 28. A) HTTP
- 29. A) Transport
- 30. A) Data Link
- 31. A) Application
- 32. A) Physical
- 33. A) Application
- 34. A) Data Link
- 35. A) Network
- 36. A) Transport
- 37. A) Application
- 38. A) Data Link
- 39. A) Network
- 40. A) Transport
- 41. A) 254
- 42. A) 255.255.255.192
- 43. A) 2
- 44. A) 14
- 45. A) 255.255.255.0
- 46. A) 2
- 47. A) 192.168.10.65-192.168.10.126
- 48. A) 10.255.255.255
- 49. D) All of the above
- 50. A) 65534
- 51. A) Classless Inter-Domain Routing
- 52. A) /28
- 53. A) 192.168.15.64
- 54. A) /29
- 55. A) 172.16.10.1
- 56. A) .7
- 57. A) 4
- 58. A) 128 bits
- 59. A) fe80::/10

- 60. A) ff00::/8
- 61. A) 0
- 62. A) 22
- 63. A) 20/21
- 64. A) 80
- 65. A) 443
- 66. A) 53
- 67. A) 25
- 68. A) 110
- 69. A) 143
- 70. A) 3389
- 71. A) 23
- 72. A) Open Source Intelligence
- 73. A) the Harvester
- 74. A) ExifTool
- 75. A) Maltego
- 76. A) site:example.com
- 77. A) HavelBeenPwned
- 78. A) Sherlock
- 79. A) Sublist3r
- 80. A) Nikto
- 81. A) nslookup
- 82. A) Search engine for internet-connected devices
- 83. A) Publicly available data
- 84. A) OSINT automation
- 85. A) ipinfo.io
- 86. A) OSINT automation tool
- 87. A) Secure Shell
- 88. A) ssh-keygen
- 89. A) ~/.ssh
- 90. A) ssh-copy-id user@host
- 91. A) TCP
- 92. A) -L
- 93. A) -D
- 94. A) /etc/ssh/sshd\_config
- 95. A) Ed25519
- 96. A) ssh-add ~/.ssh/id\_ed25519
- 97. A) PasswordAuthentication no
- 98. A) ~/.ssh/authorized\_keys
- 99. A) Use local keys on remote host
- 100. A) ssh user@host 'command'
- 101. A) Nmap with ssh-brute scripts or Hydra