

# VyOS Exam Preparation Guide 2020



**Exam Details:** VCNE consists of 9-12 troubleshooting tasks with a passing score of 100. Candidates are given 120 minutes to complete the exam.

**Certification Information:** You will have 6 VyOS routers connected via BGP and OSPF through Ethernet and VTI links. All peers might use route filters and firewall rules. Main goal - solve all troubleshooting steps.

**Minimally Qualified Candidate:** The minimally qualified candidate (MQC) has twelve months of hands-on experience installing, configuring, and managing VyOS routers. The candidate possesses skills in deploying and administering VyOS routers, connect routers via BGP/OSPF, filter import and export routes, serve and configure IPSec VTI tunnels. Configuring stateless and stateful firewall.

## References\*

<https://docs.vyos.io/en/crux/interfaces/index.html>

<https://docs.vyos.io/en/crux/firewall.html>

[https://docs.vyos.io/en/crux/vpn/site2site\\_ipsec.html](https://docs.vyos.io/en/crux/vpn/site2site_ipsec.html)

<https://docs.vyos.io/en/crux/routing/bgp.html>

<https://docs.vyos.io/en/crux/routing/ospf.html>

<https://docs.vyos.io/en/crux/routing/static.html>



## Sample Questions:

Sample questions presented here are examples of the types of questions candidates may encounter and should not be used as a resource for exam preparation.

1. How many /24 can you get from a /16
  - A. 256
  - B. 150
  - C. 50
  - D. 255
2. Which multicast groups utilize OSPF
  - A. OSPF use only broadcast
  - B. OSPF use only unicast
  - C. 224.0.0.1 and 224.0.0.2
  - D. 224.0.0.5 and 224.0.0.6
3. Which of the following ports use BGP protocols
  - A. TCP and UDP 179
  - B. UDP 179
  - C. TCP 179
  - D. BGP use multicast
4. Which one is not a BGP metric attribute?
  - A. Load
  - B. Origin
  - C. Local preference
  - D. AS-path
5. Which of the following ports reserved for IPSec
  - A. 450 and 500
  - B. 500
  - C. 500 and 4500
  - D. 443
6. Which action use Firewall by default (if action not configure)
  - A. Accept
  - B. Reject
  - C. Drop
  - D. Log
7. How many rule allow configure in rule-set
  - A. 1000
  - B. 10000
  - C. 9999
  - D. 99999



8. Which one Firewall rule block DNS

- A. set firewall name DNS rule 10 action 'accept'  
set firewall name DNS rule 10 destination port '53'  
set firewall name DNS rule 10 protocol 'udp'
- B. set firewall name DNS rule 10 action 'drop'  
set firewall name DNS rule 10 source port '53'  
set firewall name DNS rule 10 protocol 'udp'
- C. set firewall name DNS rule 10 action 'drop'  
set firewall name DNS rule 10 destination port '35'  
set firewall name DNS rule 10 protocol 'tcp'
- D. set firewall name DNS rule 10 action 'reject'  
set firewall name DNS rule 10 source port '53'  
set firewall name DNS rule 10 protocol 'tcp'

9. What does BGP protocol use for detecting whether the BGP connection is internal or external ?

- A. AS number
- B. AS\_path
- C. remote-as
- D. router-id

10. Which one of these is NOT OSPF message:

- A. Hello
- B. Database Description (DBD)
- C. Database Backup (DBB)
- D. Link State Request (LSR)
- E. Link State Update (LSU)
- F. Link State Acknowledgment (LSAck)