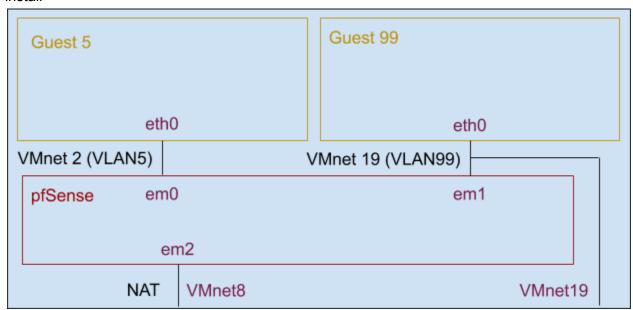
Network Administration/System Administration (NTU CSIE, Spring 2019) Homework #4

Network Administration

1. pfSense

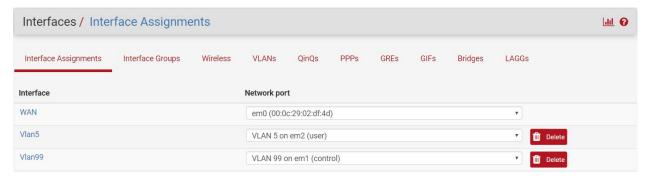
1. install



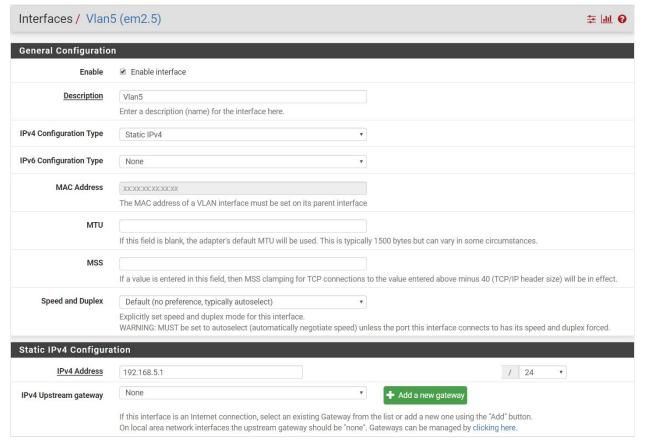
2. Interfaces > VLANs



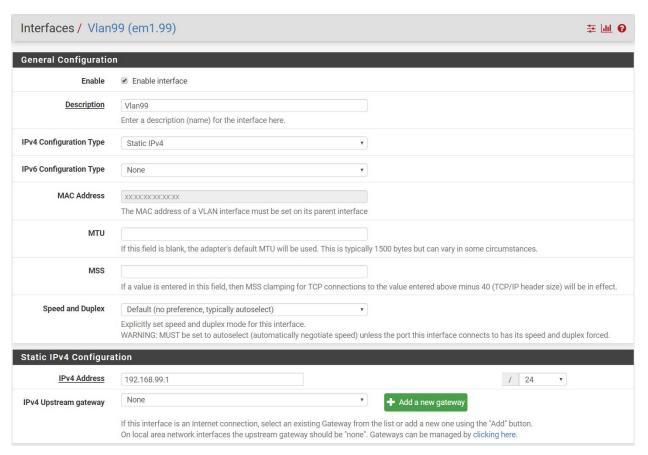
3. Interfaces > Assignments



4. Interfaces > Vlan5 (em2.5)

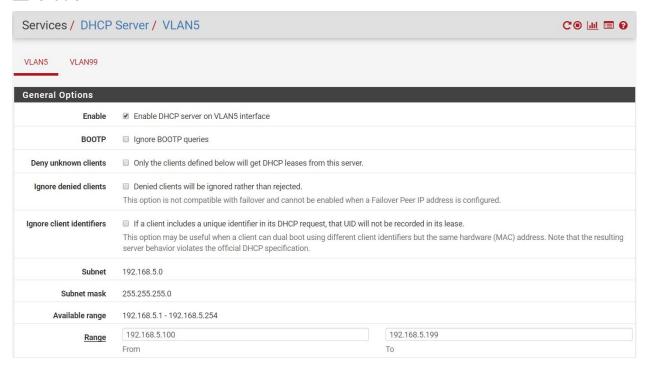


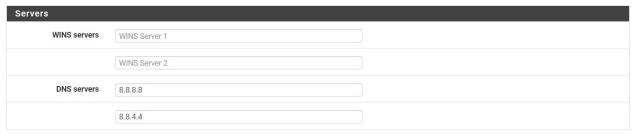
5. Interfaces > Vlan99 (em1.99)



6. DHCP Server > VLAN5

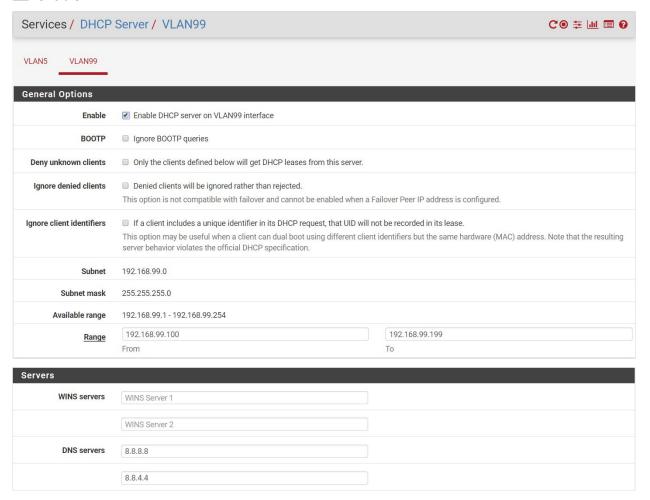
enable





7. DHCP Server > VLAN99

enable



8. System > Advance

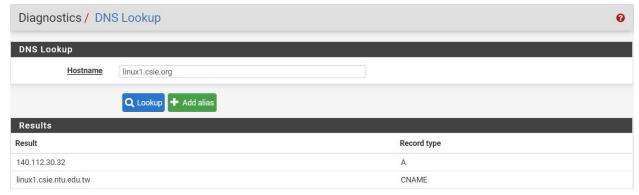
✓ Enable Secure Shell

Reference:

https://docs.netgate.com/pfsense/en/latest/usermanager/granting-users-access-to-ssh.html

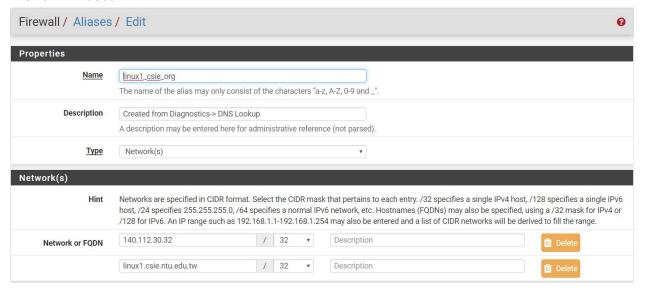
9. Alias

Diagnostics > DNS Lookup



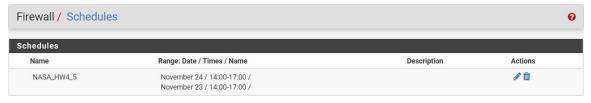
Add alias

Firewall > Aliases > IP

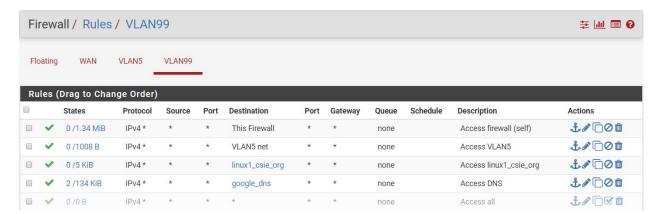


10. Firewall > Schedules

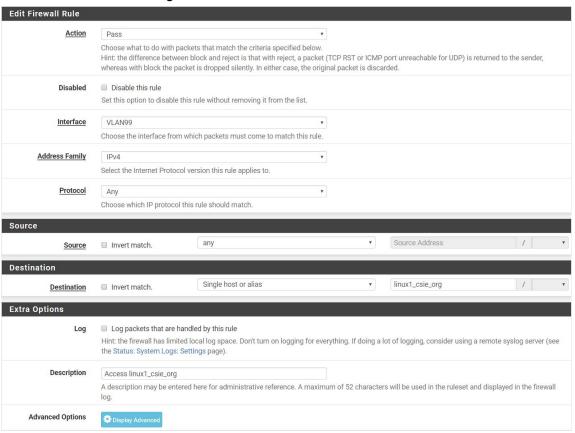
Add NASA_HW4_5



11. Firewall > Rules > VLAN99

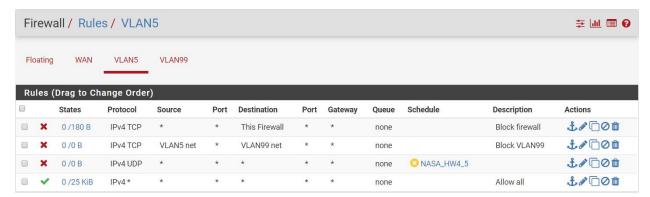


- 1. Add Access firewall (self)
- 2. Add Access VLAN5
- 3. Add Access linux1.csie.org



google_dns for linux1.csie.org

12. Firewall > Rules > VLAN5



- 1. Add block access to firewall (self)
- 2. Add block access to VLAN99
- 3. Add block any ⇔ any udp with schedule NASA_HW4_5
- 4. Add Allow any ⇔ at the end
- 13. Firewall > Rules > WAN



1. Add Block firewall (self)

14. Tip

Manual set adapter's tag

