

Palo Alto Firewalls

*****More specific rules must precede the more general ones (rules are evaluated top to bottom)*****
Configure mode prompt: #, normal mode prompt: >

DON'T FORGET TO COMMIT

1. Find management IP: `show interface management`
****Web GUI is only accessible via HTTPS****
No web gui: knowledgebase.paloaltonetworks.com/KCSArticleDetail?id=kA10g000000Cll0CAC
 - a. Set static management IP address:
`configure, set deviceconfig system type static, set deviceconfig system ip-address <ip address> netmask <netmask> default-gateway <default gateway> dns-setting servers primary <DNS ip address>`
 - i. Set static IP: **Device-> Setup -> Interfaces -> Management**
 - ii. Set DNS server: **Device -> Setup -> Services**
 - iii. Go to the new IP you set to manage the firewall
2. Change passwords:
 - a. Admin: **Device -> Administrators -> Click on username, change password**
 - i. `configure, set mgt-config users admin password`
 - ii. Other admins: `show admins, delete mgt-config users <admin>`
 - b. Local Users: **Device -> Local User Database**
 - i. `show user user-ids all`
 - ii. `configure, set mgt-config users <name> password`
 - c. Adding a new user:
`configure`
`set mgt-config users <name> password`
`set mgt-config users <name> permissions role-based <role profile>`
3. Check for user certificates: see guide
4. Check for SSH keys: see guide
5. ACL for accessing management interface: **Device-> Setup -> Interfaces -> Management**
`configure, set deviceconfig system permitted-ip <ipaddress/netmask>`
6. Go through Network tab to get a better understanding of what's going on
`show config running`
7. Check security rules: **Policies -> Security**
 - a. Disable rules allowing unneeded services
 - b. These rules are applied top to bottom
 - c. Remember that these rules are evaluated after DoS Protection Policies
 - d. Overall vision for applying security policies:
 - i. Create a grouping (could be an object/zone/whatever...)
 - ii. Create security profiles (can group security profiles into a security profile group)
 - iii. Apply policies using security profiles/security profile groups
8. Check NAT rules: **Policies -> NAT**
9. Check port forwarding rules: **Policies -> Policy Based Forwarding**
10. Check service definitions (someone may've bound a bad port to a service): **Objects -> Services**
11. Prevent defined attacks: **Objects -> Enable Security Profiles**