English

CCDC Palo Alto Playbook V2.0

** Create a saved configuration snapshot often incase HTF **

General Hardening:

- 1. Change admin passwords
- 2. Logout logged in administrators
- 3. Disable insecure services on management interface
- 4. Remove management profiles on external interfaces
- 5. Create security policies

Incident Response:

Use show admins to check for remote sessions to both console and webUI.

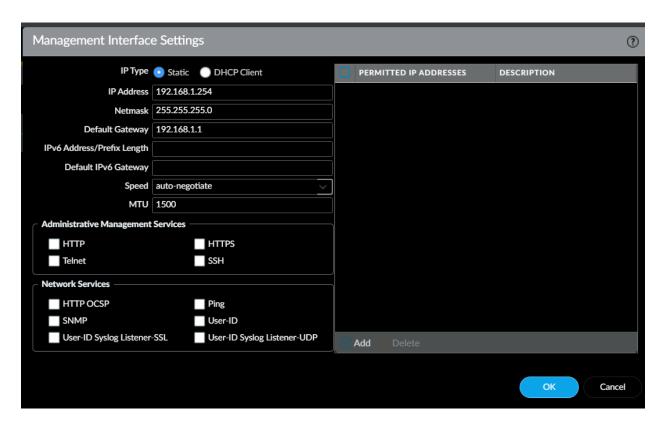


Remove all sessions: '> delete admin-sessions '

> delete admin-sessions username <username>

Regaining GUI Access:

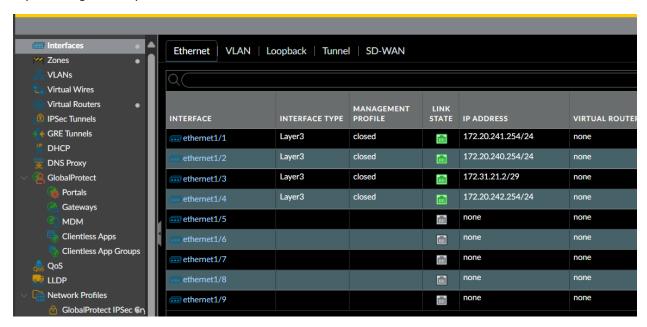
If you committed something like this by accident:



Set deviceconfig system service disable-https no

commit

If you configured all your interfaces to block outside administration.



set network interface ethernet ethernet1/4 layer3 interface-management-profile open-mgmt

Troubleshooting Steps

1. Dashboard Tab



Various widgets allow for quick display of interfaces up/down and some logs

2. Monitor Tab - Threat and Traffic

It is typical for UDP traffic to display end-reason 'aged=out'

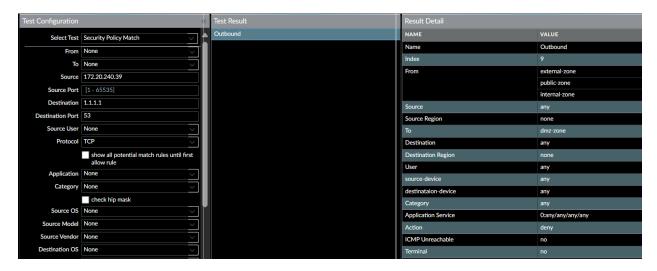
Session End Reasons

Reason	Explanation
threat	A threat was detected and the rule action was "reset," "drop," or "block."
policy-deny	The session matched a rule with the action set to "deny" or "drop."
decrypt-cert-validation	The certificate was expired, untrusted, status unknown or otherwise "bad."
decrypt-unsupport-param	An unsupported protocol version, cipher, or SSH algorithm was requested.
decrypt-error	Policy was set to block on "other" SSL errors or decryption was unavailable.
tcp-rst-from-client	The client sent a TCP reset to the server.
tcp-rst-from-server	The server sent a TCP reset to the client.
resources-unavailable	A system resource limitation on out-of-order packets, for example, was reached.
tcp-fin	One or both nodes sent TCP packets with the finish (FIN) flag set.
tcp-reuse	The session was closed for reuse before the final time-wait period expired.
decoder	Within a protocol such as HTTP-Proxy, the decoder detected a new connection.
aged-out	Packets stopped flowing and the wait time expired—a typical end for UDP.
unknown	The log is being read on a system released prior to the introduction of the end reason.

3. Ping

Ping command available via cli or through GUI

4. Test Matching Security Policies



5. Packet Capture

CLI packet capture

- > tcpdump capture packets on management interface
- > view-pcap view packet capture files generated on the firewall

Display current sessions

> show sessions all filter [?]

Will display all current sessions matching enter filter. Filters are similar to filtering in GUI:

```
ID Application State Type Flag Src[Sport]/Zone/Proto (translated IP[Port])

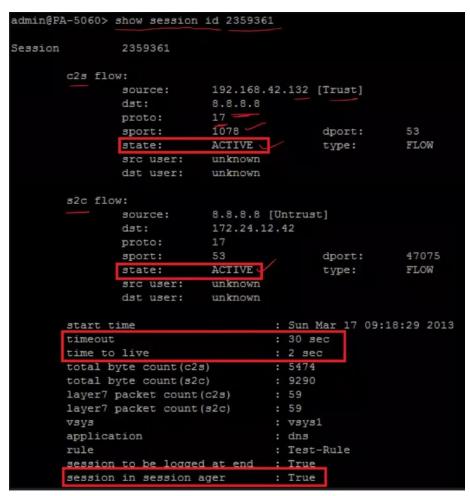
Vsys — Dst[Dport]/Zone (translated IP[Port])

41496 ping ACTIVE FLOW NS 192.168.33.202[1024]/trust-L3/1 (10.66.24.33[1024])

vsys1 — 4.2.2.2[53056]/untrust-L3 (4.2.2.2[53056])
```

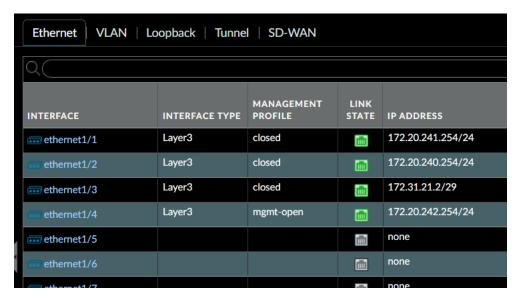
> show session id [id #]

Displays all information about a session.



6. Check network configuration if network can't reach out to internet:

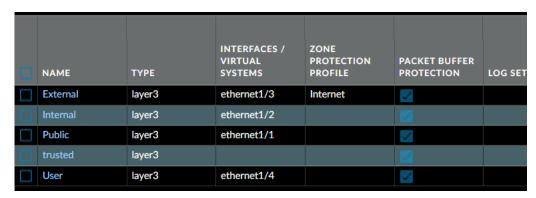
Ethernet IP Addresses:



Virtual Router > Static Routes



Ensure the zones are assigned to the correct interfaces



7. If all else fails, just reload to previous configuration snapshot instead of remaining red.