

WOLEX / NETWORK FIELD REFERENCE

Palo Alto firewalls | Troubleshooting

PAN-OS 11.2 / NGFW | Revision 1.0 | Reviewed 2026-10-10

Operational mode examples; select the correct vsys and virtual router. Legacy routing-engine commands are not interchangeable with Advanced Routing Engine commands. Panorama push scope also matters.

Read-only inspection unless labeled otherwise. Replace every example address, interface and <PLACEHOLDER>. Confirm syntax with device help for your release.

Find the real application session

Read-only inspection

```
show session all filter source 198.51.100.10 destination 192.0.2.10
show session id <SESSION_ID>
```

Inspect: Inspect both flow directions, rule, zones, application, translations and byte counters.

Next: Compare the original and translated tuple with traffic logs and the return route during a fresh, controlled attempt.

Replace the addresses and session ID. No matching session is not by itself proof of a firewall deny.

Which security rule would match?

Read-only inspection

```
test security-policy-match from <SOURCE_ZONE> to <DEST_ZONE> source 198.51.100.10 destination
192.0.2.10 destination-port 443 protocol 6
```

Inspect: Compare the matched rule with the intended zones, addresses, protocol and port.

Next: Add the actual application/user context where needed; validate the real session and traffic log after a controlled attempt.

Policy simulation is not end-to-end traffic proof. NAT, PBF, App-ID, User-ID, decryption and existing sessions can change what you observe.

VPN up, no useful traffic

Read-only inspection

```
show vpn ike-sa
show vpn ipsec-sa
show vpn flow
```

Inspect: Separate IKE state, IPsec state and traffic/counter movement.

Next: Verify selectors/proxy IDs, tunnel routing, policy/NAT and return routes; test the actual application from both sides.

An established tunnel does not prove that a subnet or application is permitted through it.

Confirm the selected route

Read-only inspection

```
test routing fib-lookup ip 192.0.2.10 virtual-router <VR_NAME>
```

Inspect: Identify the route/egress selected by the specified legacy virtual router.

Next: Check PBF and session egress, then the reverse path. For Advanced Routing Engine deployments use its logical-router command reference.

Use the correct vsys/VR. The legacy and advanced routing command sets differ.

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Palo Alto firewalls | Deployment

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Review and validate a firewall change

Read-only inspection

```
show config diff
show jobs all
show high-availability state
```

Inspect: Review candidate/running differences, commit job outcome and HA state.

Next: Validate and review scope before commit; after commit, check logs and new sessions for intended allows and intended denies. For Panorama, verify the push job and target device.

Export a protected configuration backup and document the recovery procedure first. A successful commit does not prove that the application works. These commands do not perform a commit or HA failover.

Change acceptance checklist

Before: approved scope, baseline, compatible software/optics, protected backup, console access and recovery owner.

After: compare links, VLANs, peers and routes; test management from a separate path, real application traffic, intended denies and redundancy. Record evidence and time.

Close: save or confirm the accepted configuration, update documentation and retain the reviewed recovery path.

Vendor references

[PAN-OS session interpretation](#)[PAN-OS policy tests](#)[PAN-OS networking reference](#)[PAN-OS 11.2 operational CLI](#)

Not executed on customer equipment. Documentation-reviewed examples; platform features and syntax vary. No login, config upload or device connection.

Live reference: wlex.net/tools/network-cheat-sheets/

Deployment and migration help from Wolex | [Network security review](#)