

Initial information

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|--|--|
| Get the status of firewalld | firewall-cmd --state |
| Reload the firewall | firewall-cmd --reload |
| List of all supported zones | firewall-cmd --get-zones |
| List of all supported services | firewall-cmd --get-services |
| List of all supported icmptypes | firewall-cmd --get-icmptypes |
| List all zones with the enabled features | firewall-cmd --list-all-zones |
| Print zone with the enabled features | firewall-cmd [--zone=<zone>] --list-all |
| Get the default zone | firewall-cmd --get-default-zone |
| Set the default zone | firewall-cmd --set-default-zone=<zone> |
| Get active zones | firewall-cmd --get-active-zones |
| Get zone related to an interface | firewall-cmd --get-zone-of-interface=<interface> |

Interface

| | |
|---|---|
| Add an interface to a zone | firewall-cmd [--zone=<zone>] --add-interface=<interface> |
| Change the zone an interface belongs to | firewall-cmd [--zone=<zone>] --change-interface=<interface> |
| Remove an interface from a zone | firewall-cmd [--zone=<zone>] --remove-interface=<interface> |
| Query if an interface is in a zone | firewall-cmd [--zone=<zone>] --query-interface=<interface> |
| List the enabled services in a zone | firewall-cmd [--zone=<zone>] --list-services |

Service

| | |
|---|--|
| Enable a service in a zone | firewall-cmd [--zone=<zone>] --add-service=<service> [--timeout=<seconds>] |
| Disable a service in a zone | firewall-cmd [--zone=<zone>] --remove-service=<service> |
| Query if a service is enabled in a zone | firewall-cmd [--zone=<zone>] --query-service=<service> |

Source

| | |
|--|---|
| Enable a source in a zone | firewall-cmd [--zone=<zone>] --add-source=<address> [--timeout=<seconds>] |
| Disable a source in a zone | firewall-cmd [--zone=<zone>] --remove-source=<address> |
| Query if a source is enabled in a zone | firewall-cmd [--zone=<zone>] --query-source=<address> |

ICMP

| | |
|-------------------------------|---|
| Enable ICMP blocks in a zone | firewall-cmd [--zone=<zone>] --add-icmp-block=<icmptype> |
| Disable ICMP blocks in a zone | firewall-cmd [--zone=<zone>] --remove-icmp-block=<icmptype> |
| Query ICMP blocks in a zone | firewall-cmd [--zone=<zone>] --query-icmp-block=<icmptype> |

Example: firewall-cmd --zone=public --add-icmp-block=echo-reply



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port and protocol combination

| | |
|---|--|
| Enable a port and protocol combination in a zone | firewall-cmd [--zone=<zone>] --add-port=<port>[-<port>]/<protocol> [--timeout=<seconds>] |
| Disable a port and protocol combination in a zone | firewall-cmd [--zone=<zone>] --remove-port=<port>[-<port>]/<protocol> |
| Query if a port and protocol combination is enabled in a zone | firewall-cmd [--zone=<zone>] --query-port=<port>[-<port>]/<protocol> |

port forwarding or port mapping

| | |
|---|---|
| Enable port forwarding or port mapping in a zone | firewall-cmd [--zone=<zone>] --add-forward-port=port=<port>[-<port>]:proto=<protocol> { :toport=<port>[-<port>] :toaddr=<address> :toport=<port>[-<port>]:toaddr=<address> } |
| Disable port forwarding or port mapping in a zone | firewall-cmd [--zone=<zone>] --remove-forward-port=port=<port>[-<port>]:proto=<protocol> { :toport=<port>[-<port>] :toaddr=<address> :toport=<port>[-<port>]:toaddr=<address> } |
| Query port forwarding or port mapping in a zone | firewall-cmd [--zone=<zone>] --query-forward-port=port=<port>[-<port>]:proto=<protocol> { :toport=<port>[-<port>] :toaddr=<address> :toport=<port>[-<port>]:toaddr=<address> } |
| Example: | firewall-cmd --zone=home --add-forward-port=port=22:proto=tcp:toaddr=127.0.0.2 |

Permanent

The permanent options are not affecting runtime directly. These options are only available after a reload or restart. To have runtime and permanent setting, you need to supply both. The **--permanent** option needs to be the first option for all permanent calls.

panic mode

| | |
|--|------------------------------|
| Enable panic | firewall-cmd --enable-panic |
| Disable panic mode | firewall-cmd --disable-panic |
| Query panic mode | firewall-cmd --query-panic |
| Block all network traffic in case of emergency | |

Masquerading

| | |
|--------------------------------|--|
| Enable masquerading in a zone | firewall-cmd [--zone=<zone>] --add-masquerade |
| Disable masquerading in a zone | firewall-cmd [--zone=<zone>] --remove-masquerade |
| Query masquerading in a zone | firewall-cmd [--zone=<zone>] --query-masquerade |



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Direct options

| | |
|---|--|
| Pass a command through to the firewall. <args> can be all iptables, ip6tables and ebtables command line arguments | <code>firewall-cmd --direct --passthrough { ipv4 ipv6 eb } <args></code> |
| Add a new chain <chain> to a table <table>. | <code>firewall-cmd [--permanent] --direct --add-chain { ipv4 ipv6 eb } <table> <chain></code> |
| Remove a chain with name <chain> from table <table>. | <code>firewall-cmd [--permanent] --direct --remove-chain { ipv4 ipv6 eb } <table> <chain></code> |
| Query if a chain with name <chain> exists in table <table>. Returns 0 if true, 1 otherwise. | <code>firewall-cmd [--permanent] --direct --query-chain { ipv4 ipv6 eb } <table> <chain></code> |
| Get all chains added to table <table> as a space separated list. | <code>firewall-cmd [--permanent] --direct --get-chains { ipv4 ipv6 eb } <table></code> |
| Add a rule with the arguments <args> to chain <chain> in table <table> with priority <priority>. | <code>firewall-cmd [--permanent] --direct --add-rule { ipv4 ipv6 eb } <table> <chain> <priority> <args></code> |
| Remove a rule with the arguments <args> from chain <chain> in table <table>. | <code>firewall-cmd [--permanent] --direct --remove-rule { ipv4 ipv6 eb } <table> <chain> <args></code> |
| Query if a rule with the arguments <args> exists in chain <chain> in table <table>. Returns 0 if true, 1 otherwise. | <code>firewall-cmd [--permanent] --direct --query-rule { ipv4 ipv6 eb } <table> <chain> <args></code> |
| Get all rules added to chain <chain> in table <table> as a newline separated list of arguments. | <code>firewall-cmd [--permanent] --direct --get-rules { ipv4 ipv6 eb } <table> <chain></code> |

The direct options give a more direct access to the firewall. These options require user to know basic iptables concepts.



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