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Rocky Enterprise Linux 9.2 Manual Pages on command 'firewalld.dbus.5'

\$ man firewalld.dbus.5

FIREWALLD.DBUS(5)

firewalld.dbus

FIREWALLD.DBUS(5)

NAME

firewalld.dbus - firewalld D-Bus interface description

OBJECT PATHS

This is the basic firewalld object path structure. The used interfaces

are explained below in the section called ?INTERFACES?.

/org/fedoraproject/FirewallD1

Interfaces

org.fedoraproject.FirewallD1

org.fedoraproject.FirewallD1.direct (deprecated)

org.fedoraproject.FirewallD1.ipset

org.fedoraproject.FirewallD1.policies

org.fedoraproject.FirewallD1.zone

org.freedesktop.DBus.Introspectable

org.freedesktop.DBus.Properties

/org/fedoraproject/FirewallD1/config

Interfaces

org.fedoraproject.FirewallD1.config

org.fedoraproject.FirewallD1.config.direct (deprecated) org.fedoraproject.FirewallD1.config.policies org.freedesktop.DBus.Introspectable org.freedesktop.DBus.Properties /org/fedoraproject/FirewallD1/config/zone/i Interfaces org.fedoraproject.FirewallD1.config.zone org.freedesktop.DBus.Introspectable org.freedesktop.DBus.Properties /org/fedoraproject/FirewallD1/config/service/i Interfaces: org.fedoraproject.FirewallD1.config.service org.freedesktop.DBus.Introspectable org.freedesktop.DBus.Properties /org/fedoraproject/FirewallD1/config/ipset/i Interfaces org.fedoraproject.FirewallD1.config.ipset org.freedesktop.DBus.Introspectable org.freedesktop.DBus.Properties /org/fedoraproject/FirewallD1/config/icmptype/i Interfaces org.fedoraproject.FirewallD1.config.icmptype org.freedesktop.DBus.Introspectable org.freedesktop.DBus.Properties **INTERFACES** org.fedoraproject.FirewallD1 This interface contains general runtime operations, like: reloading, panic mode, default zone handling, getting services and icmp types and their settings. Methods authorizeAll() ? Nothing

Initiate authorization for the complete firewalld D-Bus

interface. This method it mostly useful for configuration

applications.

completeReload() ? Nothing

Reload firewall completely, even netfilter kernel modules. This will most likely terminate active connections, because state information is lost. This option should only be used in case of severe firewall problems. For example if there are state information problems that no connection can be established with correct firewall rules.

disablePanicMode() ? Nothing

Disable panic mode. After disabling panic mode established connections might work again, if panic mode was enabled for a short period of time.

Possible errors: NOT_ENABLED, COMMAND_FAILED

enablePanicMode() ? Nothing

Enable panic mode. All incoming and outgoing packets are

dropped, active connections will expire. Enable this only if

there are serious problems with your network environment.

Possible errors: ALREADY_ENABLED, COMMAND_FAILED

getAutomaticHelpers() ? s

Deprecated. This always returns "no".

getDefaultZone() ? s

Return default zone.

getHelperSettings(s: helper) ? (sssssa(ss))

Return runtime settings of given helper. For getting permanent

settings see

org.fedoraproject.FirewallD1.config.helper.Methods.getSettings.

Settings are in format: version, name, description, family,

module and array of ports.

version (s): see version attribute of helper tag in

firewalld.helper(5).

name (s): see short tag in firewalld.helper(5).

description (s): see description tag in firewalld.helper(5).

family (s): see family tag in firewalld.helper(5).

module (s): see module tag in firewalld.helper(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.helper(5). Possible errors: INVALID_HELPER getHelpers() ? as Return array of helper names (s) in runtime configuration. For permanent configuration see org.fedoraproject.FirewallD1.config.Methods.listHelpers. getIcmpTypeSettings(s: icmptype) ? (sssas) Return runtime settings of given icmptype. For getting permanent settings see org.fedoraproject.FirewallD1.config.icmptype.Methods.getSettings. Settings are in format: version, name, description, array of destinations. version (s): see version attribute of icmptype tag in firewalld.icmptype(5). name (s): see short tag in firewalld.icmptype(5). description (s): see description tag in firewalld.icmptype(5). destinations (as): array, either empty or containing strings 'ipv4' or 'ipv6', see destination tag in firewalld.icmptype(5). Possible errors: INVALID_ICMPTYPE getLogDenied() ? s Returns the LogDenied value. If LogDenied is enabled, then logging rules are added right before reject and drop rules in the INPUT, FORWARD and OUTPUT chains for the default rules and also final reject and drop rules in zones. Possible values are: all, unicast, broadcast, multicast and off. The default value is off getServiceSettings(s: service) ? (sssa(ss)asa{ss}asa(ss)) This function is deprecated, use org.fedoraproject.FirewallD1.Methods.getServiceSettings2 instead.

getServiceSettings2(s: service) ? s{sv}

Return runtime settings of given service. For getting permanent settings see org.fedoraproject.FirewallD1.config.service.Methods.getSettings2. Settings are a dictionary indexed by keywords. For the type of each value see below. If the value is empty it may be omitted. version (s): see version attribute of service tag in firewalld.service(5). name (s): see short tag in firewalld.service(5). description (s): see description tag in firewalld.service(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.service(5). module names (as): array of kernel netfilter helpers, see module tag in firewalld.service(5). destinations (a{ss}): dictionary of {IP family : IP address} where 'IP family' key can be either 'ipv4' or 'ipv6'. See destination tag in firewalld.service(5). protocols (as): array of protocols, see protocol tag in firewalld.service(5). source_ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.service(5). includes (as): array of service includes, see include tag in firewalld.service(5). helpers (as): array of service helpers, see helper tag in firewalld.service(5). Possible errors: INVALID_SERVICE getZoneSettings(s: zone) ? (sssbsasa(ss)asba(ssss)asasasasa(ss)b) This function is deprecated, use org.fedoraproject.FirewallD1.zone.Methods.getZoneSettings2 instead. listIcmpTypes() ? as Return array of names (s) of icmp types in runtime

configuration. For permanent configuration see

org.fedoraproject.FirewallD1.config.Methods.listIcmpTypes.

Return array of service names (s) in runtime configuration. For

permanent configuration see

org.fedoraproject.FirewallD1.config.Methods.listServices.

queryPanicMode() ? b

Return true if panic mode is enabled, false otherwise. In panic

mode all incoming and outgoing packets are dropped.

reload() ? Nothing

Reload firewall rules and keep state information. Current

permanent configuration will become new runtime configuration,

i.e. all runtime only changes done until reload are lost with

reload if they have not been also in permanent configuration.

runtimeToPermanent() ? Nothing

Make runtime settings permanent. Replaces permanent settings

with runtime settings for zones, services, icmptypes, direct

(deprecated) and policies (lockdown whitelist).

Possible errors: RT_TO_PERM_FAILED

checkPermanentConfig() ? Nothing

Run checks on the permanent configuration. This is most useful

if changes were made manually to configuration files.

Possible errors: any

setDefaultZone(s: zone) ? Nothing

Set default zone for connections and interfaces where no zone

has been selected to zone. Setting the default zone changes the

zone for the connections or interfaces, that are using the

default zone. This is a runtime and permanent change.

Possible errors: ZONE_ALREADY_SET, COMMAND_FAILED

setLogDenied(s: value) ? Nothing

Set LogDenied value to value. If LogDenied is enabled, then

logging rules are added right before reject and drop rules in

the INPUT, FORWARD and OUTPUT chains for the default rules and

also final reject and drop rules in zones. Possible values are:

all, unicast, broadcast, multicast and off. The default value

is off This is a runtime and permanent change.

Possible errors: ALREADY_SET, INVALID_VALUE

Signals

DefaultZoneChanged(s: zone)

Emitted when default zone has been changed to zone.

LogDeniedChanged(s: value)

Emitted when LogDenied value has been changed.

PanicModeDisabled()

Emitted when panic mode has been deactivated.

PanicModeEnabled()

Emitted when panic mode has been activated.

Reloaded()

Emitted when firewalld has been reloaded. Also emitted for a

complete reload.

Properties

```
BRIDGE - b - (ro)
```

Indicates whether the firewall has ethernet bridge support.

IPSet - b - (ro)

Indicates whether the firewall has IPSet support.

```
IPSetTypes - as - (ro)
```

The supported IPSet types by ipset and firewalld.

IPv4 - b - (ro)

Indicates whether the firewall has IPv4 support.

IPv4ICMPTypes - as - (ro)

The list of supported IPv4 ICMP types.

IPv6 - b - (ro)

Indicates whether the firewall has IPv6 support.

IPv6_rpfilter - b - (ro)

Indicates whether the reverse path filter test on a packet for

IPv6 is enabled. If a reply to the packet would be sent via the

same interface that the packet arrived on, the packet will

match and be accepted, otherwise dropped.

The list of supported IPv6 ICMP types.

```
nf_conntrach_helper_setting - b - (ro)
```

Deprecated. Always False.

```
nf_conntrack_helpers - a{sas} - (ro)
```

Deprecated. Always returns an empty dictionary.

nf_nat_helpers - a{sas} - (ro)

Deprecated. Always returns an empty dictionary.

interface_version - s - (ro)

firewalld D-Bus interface version string.

state - s - (ro)

firewalld state. This can be either INIT, FAILED, or RUNNING.

In INIT state, firewalld is starting up and initializing. In

FAILED state, firewalld completely started but experienced a

failure.

version - s - (ro)

firewalld version string.

org.fedoraproject.FirewallD1.ipset

Operations in this interface allows one to get, add, remove and query

runtime ipset settings. For permanent configuration see

org.fedoraproject.FirewallD1.config.ipset interface.

Methods

addEntry(s: ipset, s: entry) ? as

Add a new entry to ipset. The entry must match the type of the

ipset. If the ipset is using the timeout option, it is not

possible to see the entries, as they are timing out

automatically in the kernel. For permanent operation see

org.fedoraproject.FirewallD1.config.ipset.Methods.addEntry.

Possible errors: INVALID_IPSET, IPSET_WITH_TIMEOUT

getEntries(s: ipset) ? Nothing

Get all entries added to the ipset. If the ipset is using the

timeout option, it is not possible to see the entries, as they

are timing out automatically in the kernel. Return value is a

array of entry. For permanent operation see

org.fedoraproject.FirewallD1.config.ipset.Methods.getEntries. Possible errors: INVALID_IPSET, IPSET_WITH_TIMEOUT getIPSetSettings(s: ipset) ? (ssssa{ss}as) Return runtime settings of given ipset. For getting permanent settings see org.fedoraproject.FirewallD1.config.ipset.Methods.getSettings. Settings are in format: version, name, description, type, dictionary of options and array of entries. version (s): see version attribute of ipset tag in firewalld.ipset(5). name (s): see short tag in firewalld.ipset(5). description (s): see description tag in firewalld.ipset(5). type (s): see type attribute of ipset tag in firewalld.ipset(5). options (a{ss}): dictionary of {option : value} . See options tag in firewalld.ipset(5). entries (as): array of entries, see entry tag in firewalld.ipset(5). Possible errors: INVALID_IPSET getIPSets() ? as Return array of ipset names (s) in runtime configuration. For permanent configuration see org.fedoraproject.FirewallD1.config.Methods.listIPSets. queryEntry(s: ipset, s: entry) ? b Return whether entry has been added to ipset. For permanent operation see org.fedoraproject.FirewallD1.config.ipset.Methods.queryEntry. Possible errors: INVALID_IPSET queryIPSet(s: ipset) ? b Return whether ipset is defined in runtime configuration. removeEntry(s: ipset, s: entry) ? as Removes an entry from ipset. For permanent operation see

org.fedoraproject.FirewallD1.config.ipset.Methods.removeEntry.

Possible errors: INVALID_IPSET, IPSET_WITH_TIMEOUT

setEntries(as: entries) ? Nothing

Permanently set list of entries to entries. For permanent

operation see

org.fedoraproject.FirewallD1.config.ipset.Methods.setEntries.

See entry tag in firewalld.ipset(5).

Signals

EntryAdded(s: ipset, s: entry)

Emitted when entry has been added to ipset.

EntryRemoved(s: ipset, s: entry)

Emitted when entry has been removed from ipset.

org.fedoraproject.FirewallD1.direct

DEPRECATED

The direct interface has been deprecated. It will be removed in a

future release. It is superseded by policies, see

firewalld.policies(5).

This interface enables more direct access to the firewall. It enables

runtime manipulation with chains and rules. For permanent configuration

see org.fedoraproject.FirewallD1.config.direct interface.

Methods

addChain(s: ipv, s: table, s: chain) ? Nothing

Add a new chain to table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Make sure there's no other chain with this name already. There already exist basic chains to use with direct methods, for example INPUT_direct chain. These chains are jumped into before chains for zones, i.e. every rule put into INPUT_direct will be checked before rules in zones. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.addChain. Possible errors: INVALID_IPV, INVALID_TABLE, ALREADY_ENABLED, COMMAND_FAILED addPassthrough(s: ipv, as: args) ? Nothing

Add a tracked passthrough rule with the arguments args for ipv

being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Valid commands in args are only -A/--append, -I/--insert and -N/--new-chain. This method is (unlike passthrough method) tracked, i.e. firewalld remembers it. It's useful with org.fedoraproject.FirewallD1.Methods.runtimeToPermanent For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.addPassthrough. Possible errors: INVALID IPV, ALREADY ENABLED, COMMAND FAILED addRule(s: ipv, s: table, s: chain, i: priority, as: args) ? Nothing Add a rule with the arguments args to chain in table with priority for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). The priority is used to order rules. Priority 0 means add rule on top of the chain, with a higher priority the rule will be added further down. Rules with the same priority are on the same level and the order of these rules is not fixed and may change. If you want to make sure that a rule will be added after another one, use a low priority for the first and a higher for the following. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.addRule. Possible errors: INVALID_IPV, INVALID_TABLE, ALREADY_ENABLED, COMMAND_FAILED getAllChains() ? a(sss) Get all chains added to all tables in format: ipv, table, chain. This concerns only chains previously added with addChain. Return value is a array of (ipv, table, chain). For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.getAllChains. ipv (s): either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). table (s): one of filter, mangle, nat, raw, security

chain (s): name of a chain.

getAllPassthroughs() ? a(sas)

Get all tracked passthrough rules added in all ipv types in format: ipv, rule. This concerns only rules previously added with addPassthrough. Return value is a array of (ipv, array of arguments). For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.getAllPassthroughs. ipv (s): either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). arguments (as): array of commands, parameters and other iptables/ip6tables/ebtables command line options. getAllRules() ? a(sssias) Get all rules added to all chains in all tables in format: ipv, table, chain, priority, rule. This concerns only rules previously added with addRule. Return value is a array of (ipv, table, chain, priority, array of arguments). For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.getAllRules. ipv (s): either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). table (s): one of filter, mangle, nat, raw, security chain (s): name of a chain. priority (i): used to order rules. arguments (as): array of commands, parameters and other iptables/ip6tables/ebtables command line options. getChains(s: ipv, s: table) ? as Return an array of chains (s) added to table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only chains previously added with addChain. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.getChains. Possible errors: INVALID_IPV, INVALID_TABLE getPassthroughs(s: ipv) ? aas

Get tracked passthrough rules added in either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addPassthrough. Return value is a array of (array of arguments). For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.getPassthroughs. arguments (as): array of commands, parameters and other iptables/ip6tables/ebtables command line options.

getRules(s: ipv, s: table, s: chain) ? a(ias)

Get all rules added to chain in table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addRule. Return value is a array of (priority, array of arguments). For permanent operation see

org.fedoraproject.FirewallD1.config.direct.Methods.getRules.

priority (i): used to order rules.

arguments (as): array of commands, parameters and other

iptables/ip6tables/ebtables command line options.

Possible errors: INVALID_IPV, INVALID_TABLE

passthrough(s: ipv, as: args) ? s

Pass a command through to the firewall. ipv can be either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). args can be all iptables, ip6tables and ebtables command line arguments. args can be all iptables, ip6tables and ebtables command line arguments. This command is untracked, which means that firewalld is not able to provide information about this command later on.

Possible errors: COMMAND_FAILED

queryChain(s: ipv, s: table, s: chain) ? b

Return whether a chain exists in table for ipv being either

ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This

concerns only chains previously added with addChain. For

permanent operation see

org.fedoraproject.FirewallD1.config.direct.Methods.queryChain.

Possible errors: INVALID_IPV, INVALID_TABLE

queryPassthrough(s: ipv, as: args) ? b

Return whether a tracked passthrough rule with the arguments args exists for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addPassthrough. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.queryPassthrough. Possible errors: INVALID IPV queryRule(s: ipv, s: table, s: chain, i: priority, as: args) ? b Return whether a rule with priority and the arguments args exists in chain in table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addRule. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.queryRule. Possible errors: INVALID_IPV, INVALID_TABLE removeAllPassthroughs() ? Nothing Remove all passthrough rules previously added with addPassthrough. removeChain(s: ipv, s: table, s: chain) ? Nothing Remove a chain from table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Only chains previously added with addChain can be removed this way. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.removeChain. Possible errors: INVALID IPV, INVALID TABLE, NOT ENABLED, COMMAND_FAILED removePassthrough(s: ipv, as: args) ? Nothing Remove a tracked passthrough rule with arguments args for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Only rules previously added with addPassthrough can be removed this way. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.removePassthrough.

Possible errors: INVALID IPV, NOT ENABLED, COMMAND FAILED removeRule(s: ipv, s: table, s: chain, i: priority, as: args) ? Nothing Remove a rule with priority and arguments args from chain in table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Only rules previously added with addRule can be removed this way. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.removeRule. Possible errors: INVALID IPV, INVALID TABLE, NOT ENABLED, COMMAND_FAILED removeRules(s: ipv, s: table, s: chain) ? Nothing Remove all rules from chain in table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addRule. For permanent operation see org.fedoraproject.FirewallD1.config.direct.Methods.removeRules. Possible errors: INVALID_IPV, INVALID_TABLE Signals ChainAdded(s: ipv, s: table, s: chain) Emitted when chain has been added into table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). ChainRemoved(s: ipv, s: table, s: chain) Emitted when chain has been removed from table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables).

PassthroughAdded(s: ipv, as: args)

Emitted when a tracked passthrough rule with args has been

added for ipv being either ipv4 (iptables) or ipv6 (ip6tables)

or eb (ebtables).

PassthroughRemoved(s: ipv, as: args)

Emitted when a tracked passthrough rule with args has been

removed for ipv being either ipv4 (iptables) or ipv6

(ip6tables) or eb (ebtables).

RuleAdded(s: ipv, s: table, s: chain, i: priority, as: args)

Emitted when a rule with args has been added to chain in table with priority for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables).

RuleRemoved(s: ipv, s: table, s: chain, i: priority, as: args) Emitted when a rule with args has been removed from chain in table with priority for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables).

org.fedoraproject.FirewallD1.policies

Enables firewalld to be able to lock down configuration changes from local applications. Local applications or services are able to change the firewall configuration if they are running as root (example: libvirt). With these operations administrator can lock the firewall configuration so that either none or only applications that are in the whitelist are able to request firewall changes. For permanent configuration see org.fedoraproject.FirewallD1.config.policies interface.

Methods

addLockdownWhitelistCommand(s: command) ? Nothing

Add command to whitelist. See command option in

firewalld.lockdown-whitelist(5). For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.addLockdownWhitelistCommand.

Possible errors: ALREADY_ENABLED, INVALID_COMMAND

addLockdownWhitelistContext(s: context) ? Nothing

Add context to whitelist. See selinux option in

firewalld.lockdown-whitelist(5). For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.addLockdownWhitelistContext.

Possible errors: ALREADY_ENABLED, INVALID_COMMAND

addLockdownWhitelistUid(i: uid) ? Nothing

Add user id uid to whitelist. See user option in

firewalld.lockdown-whitelist(5). For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.addLockdownWhitelistUid.

Possible errors: ALREADY_ENABLED, INVALID_COMMAND

Add user name to whitelist. See user option in

firewalld.lockdown-whitelist(5). For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.addLockdownWhitelistUser.

Possible errors: ALREADY_ENABLED, INVALID_COMMAND

disableLockdown() ? Nothing

Disable lockdown. This is a runtime and permanent change.

Possible errors: NOT_ENABLED

enableLockdown() ? Nothing

Enable lockdown. Be careful - if the calling application/user

is not on lockdown whitelist when you enable lockdown you won't

be able to disable it again with the application, you would

need to edit firewalld.conf. This is a runtime and permanent

change.

Possible errors: ALREADY_ENABLED

getLockdownWhitelistCommands() ? as

List all command lines (s) that are on whitelist. For permanent

operation see

org.fedoraproject.FirewallD1.config.policies.Methods.getLockdownWhitelistCommands.

getLockdownWhitelistContexts() ? as

List all contexts (s) that are on whitelist. For permanent

operation see

 $org.fedora project. Firewall {\tt D1.config.policies.} Methods.get {\tt Lockdown} White {\tt list} Contexts.$

getLockdownWhitelistUids() ? ai

List all user ids (i) that are on whitelist. For permanent

operation see

org.fedora project. Firewall D1. config. policies. Methods.get Lockdown White list Uids.

getLockdownWhitelistUsers() ? as

List all users (s) that are on whitelist. For permanent

operation see

org.fedoraproject.FirewallD1.config.policies.Methods.getLockdownWhitelistUsers.

queryLockdown() ? b

Query whether lockdown is enabled.

Query whether command is on whitelist. For permanent operation

see

org.fedoraproject.FirewallD1.config.policies.Methods.queryLockdownWhitelistCommand.

queryLockdownWhitelistContext(s: context) ? b

Query whether context is on whitelist. For permanent operation

see

org.fedoraproject.FirewallD1.config.policies.Methods.queryLockdownWhitelistContext.

queryLockdownWhitelistUid(i: uid) ? b

Query whether user id uid is on whitelist. For permanent

operation see

org.fedoraproject.FirewallD1.config.policies.Methods.queryLockdownWhitelistUid.

queryLockdownWhitelistUser(s: user) ? b

Query whether user is on whitelist. For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.queryLockdownWhitelistUser.

removeLockdownWhitelistCommand(s: command) ? Nothing

Remove command from whitelist. For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.removeLockdownWhitelistCommand.

Possible errors: NOT_ENABLED

removeLockdownWhitelistContext(s: context) ? Nothing

Remove context from whitelist. For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.removeLockdownWhitelistContext.

Possible errors: NOT_ENABLED

removeLockdownWhitelistUid(i: uid) ? Nothing

Remove user id uid from whitelist. For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.removeLockdownWhitelistUid.

Possible errors: NOT_ENABLED

removeLockdownWhitelistUser(s: user) ? Nothing

Remove user from whitelist. For permanent operation see

org.fedoraproject.FirewallD1.config.policies.Methods.removeLockdownWhitelistUser.

Possible errors: NOT_ENABLED

Signals

LockdownDisabled()

Emitted when lockdown has been disabled.

LockdownEnabled()

Emitted when lockdown has been enabled.

LockdownWhitelistCommandAdded(s: command)

Emitted when command has been added to whitelist.

LockdownWhitelistCommandRemoved(s: command)

Emitted when command has been removed from whitelist.

LockdownWhitelistContextAdded(s: context)

Emitted when context has been added to whitelist.

LockdownWhitelistContextRemoved(s: context)

Emitted when context has been removed from whitelist.

LockdownWhitelistUidAdded(i: uid)

Emitted when user id uid has been added to whitelist.

LockdownWhitelistUidRemoved(i: uid)

Emitted when user id uid has been removed from whitelist.

LockdownWhitelistUserAdded(s: user)

Emitted when user has been added to whitelist.

LockdownWhitelistUserRemoved(s: user)

Emitted when user has been removed from whitelist.

org.fedoraproject.FirewallD1.zone

Operations in this interface allows one to get, add, remove and query

runtime zone's settings. For permanent settings see

org.fedoraproject.FirewallD1.config.zone interface.

Methods

getZoneSettings2(s: zone) ? a{sv}

Return runtime settings of given zone. For getting permanent

settings see

org.fedoraproject.FirewallD1.config.zone.Methods.getSettings2.

Settings are a dictionary indexed by keywords. For the type of

each value see below. If the value is empty it may be omitted.

version (s): see version attribute of zone tag in

firewalld.zone(5).

name (s): see short tag in firewalld.zone(5).

description (s): see description tag in firewalld.zone(5).

target (s): see target attribute of zone tag in firewalld.zone(5). services (as): array of service names, see service tag in firewalld.zone(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.zone(5). icmp_blocks (as): array of icmp-blocks. See icmp-block tag in firewalld.zone(5). masquerade (b): see masquerade tag in firewalld.zone(5). forward_ports (a(ssss)): array of (port, protocol, to-port, to-addr). See forward-port tag in firewalld.zone(5). interfaces (as): array of interfaces. See interface tag in firewalld.zone(5). sources (as): array of source addresses. See source tag in firewalld.zone(5). rules_str (as): array of rich-language rules. See rule tag in firewalld.zone(5). protocols (as): array of protocols, see protocol tag in firewalld.zone(5). source_ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.zone(5). icmp_block_inversion (b): see icmp-block-inversion tag in firewalld.zone(5). forward (b): see forward tag in firewalld.zone(5). Possible errors: INVALID_ZONE setZoneSettings2(s: zone, a{sv}: settings, i: timeout) Set runtime settings of given zone. For setting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.update2. Settings are a dictionary indexed by keywords. For the type of each value see below. To zero a value pass an empty string or list.

services (as): array of service names, see service tag in

firewalld.zone(5).

ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.zone(5). icmp_blocks (as): array of icmp-blocks. See icmp-block tag in firewalld.zone(5). masquerade (b): see masquerade tag in firewalld.zone(5). forward_ports (a(ssss)): array of (port, protocol, to-port, to-addr). See forward-port tag in firewalld.zone(5). interfaces (as): array of interfaces. See interface tag in firewalld.zone(5). sources (as): array of source addresses. See source tag in firewalld.zone(5). rules_str (as): array of rich-language rules. See rule tag in firewalld.zone(5). protocols (as): array of protocols, see protocol tag in firewalld.zone(5). source_ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.zone(5). icmp_block_inversion (b): see icmp-block-inversion tag in firewalld.zone(5). forward (b): see forward tag in firewalld.zone(5). Possible errors: INVALID_ZONE addForwardPort(s: zone, s: port, s: protocol, s: toport, s: toaddr, i: timeout) ? s Add the IPv4 forward port into zone. If zone is empty, use default zone. The port can either be a single port number portid or a port range portid-portid. The protocol can either be tcp or udp. The destination address is a simple IP address. If timeout is non-zero, the operation will be active only for the amount of seconds. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addForwardPort. Returns name of zone to which the forward port was added. Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL, INVALID_PROTOCOL, INVALID_ADDR, INVALID_FORWARD,

ALREADY_ENABLED, INVALID_COMMAND

addlcmpBlock(s: zone, s: icmp, i: timeout) ? s Add an ICMP block icmp into zone. The icmp is the one of the icmp types firewalld supports. To get a listing of supported icmp types use org.fedoraproject.FirewallD1.Methods.listIcmpTypes If zone is empty, use default zone. If timeout is non-zero, the operation will be active only for the amount of seconds. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addlcmpBlock. Returns name of zone to which the ICMP block was added. Possible errors: INVALID_ZONE, INVALID_ICMPTYPE, ALREADY_ENABLED, INVALID_COMMAND addlcmpBlockInversion(s: zone) ? s Add ICMP block inversion to zone. If zone is empty, use default zone. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addlcmpBlockInversion. Returns name of zone to which the ICMP block inversion was added. Possible errors: INVALID_ZONE, ALREADY_ENABLED, INVALID_COMMAND addInterface(s: zone, s: interface) ? s Bind interface with zone. From now on all traffic going through the interface will respect the zone's settings. If zone is empty, use default zone. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addInterface. Returns name of zone to which the interface was bound.

Possible errors: INVALID_ZONE, INVALID_INTERFACE,

ALREADY_ENABLED, INVALID_COMMAND

addMasquerade(s: zone, i: timeout) ? s

Enable masquerade in zone. If zone is empty, use default zone.

If timeout is non-zero, masquerading will be active for the

amount of seconds. For permanent settings see

org.fedoraproject.FirewallD1.config.zone.Methods.addMasquerade.

Returns name of zone in which the masquerade was enabled.

Possible errors: INVALID_ZONE, ALREADY_ENABLED, INVALID_COMMAND

addPort(s: zone, s: port, s: protocol, i: timeout) ? s

Add port into zone. If zone is empty, use default zone. The port can either be a single port number or a port range portid-portid. The protocol can either be tcp or udp. If timeout is non-zero, the operation will be active only for the amount of seconds. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addPort. Returns name of zone to which the port was added. Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL, INVALID_PROTOCOL, ALREADY_ENABLED, INVALID_COMMAND addProtocol(s: zone, s: protocol, i: timeout) ? s Add protocol into zone. If zone is empty, use default zone. The protocol can be any protocol supported by the system. Please have a look at /etc/protocols for supported protocols. If timeout is non-zero, the operation will be active only for the amount of seconds. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addProtocol.

Returns name of zone to which the protocol was added.

Possible errors: INVALID_ZONE, INVALID_PROTOCOL,

ALREADY_ENABLED, INVALID_COMMAND

addRichRule(s: zone, s: rule, i: timeout) ? s

Add rich language rule into zone. For the rich language rule

syntax, please have a look at firewalld.direct(5). If zone is

empty, use default zone. If timeout is non-zero, the operation

will be active only for the amount of seconds. For permanent

settings see

org.fedoraproject.FirewallD1.config.zone.Methods.addRichRule.

Returns name of zone to which the rich language rule was added.

Possible errors: INVALID_ZONE, INVALID_RULE, ALREADY_ENABLED,

addService(s: zone, s: service, i: timeout) ? s

Add service into zone. If zone is empty, use default zone. If timeout is non-zero, the operation will be active only for the amount of seconds. To get a list of supported services, use org.fedoraproject.FirewallD1.Methods.listServices. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addService.

Returns name of zone to which the service was added.

Possible errors: INVALID_ZONE, INVALID_SERVICE,

ALREADY_ENABLED, INVALID_COMMAND

addSource(s: zone, s: source) ? s

Bind source with zone. From now on all traffic going from this source will respect the zone's settings. A source address or address range is either an IP address or a network IP address with a mask for IPv4 or IPv6. For IPv4, the mask can be a network mask or a plain number. For IPv6 the mask is a plain number. Use of host names is not supported. If zone is empty, use default zone. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addSource. Returns name of zone to which the source was bound. Possible errors: INVALID_ZONE, INVALID_ADDR, ALREADY_ENABLED, INVALID_COMMAND addSourcePort(s: zone, s: port, s: protocol, i: timeout) ? s Add source port into zone. If zone is empty, use default zone. The port can either be a single port number or a port range portid-portid. The protocol can either be tcp or udp. If timeout is non-zero, the operation will be active only for the amount of seconds. For permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.addSourcePort. Returns name of zone to which the port was added. Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL, INVALID_PROTOCOL, ALREADY_ENABLED, INVALID_COMMAND

This function is deprecated, use

org.fedoraproject.FirewallD1.zone.Methods.changeZoneOfInterface instead.

changeZoneOfInterface(s: zone, s: interface) ? s

Change a zone an interface is bound to to zone. It's basically

removeInterface(interface) followed by addInterface(zone,

interface). If interface has not been bound to a zone before,

it behaves like addInterface. If zone is empty, use default

zone.

Returns name of zone to which the interface was bound.

Possible errors: INVALID_ZONE, ZONE_ALREADY_SET, ZONE_CONFLICT

changeZoneOfSource(s: zone, s: source) ? s

Change a zone an source is bound to to zone. It's basically

removeSource(source) followed by addSource(zone, source). If

source has not been bound to a zone before, it behaves like

addSource. If zone is empty, use default zone.

Returns name of zone to which the source was bound.

Possible errors: INVALID_ZONE, ZONE_ALREADY_SET, ZONE_CONFLICT

getActiveZones() ? a{sa{sas}}

Return dictionary of currently active zones altogether with

interfaces and sources used in these zones. Active zones are

zones, that have a binding to an interface or source.

Return value is a dictionary where keys are zone names (s) and

values are again dictionaries where keys are either

'interfaces' or 'sources' and values are arrays of interface

names (s) or sources (s).

getForwardPorts(s: zone) ? aas

Return array of IPv4 forward ports previously added into zone.

If zone is empty, use default zone. For getting permanent

settings see

org.fedoraproject.FirewallD1.config.zone.Methods.getForwardPorts.

Return value is array of 4-tuples, where each 4-tuple consists

of (port, protocol, to-port, to-addr). to-addr might be empty

in case of local forwarding. Possible errors: INVALID_ZONE getIcmpBlocks(s: zone) ? as Return array of ICMP type (s) blocks previously added into zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getIcmpBlocks. Possible errors: INVALID_ZONE getIcmpBlockInversion(s: zone) ? b Return whether ICMP block inversion was previously added to zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getIcmpBlockInversion. Possible errors: INVALID_ZONE getInterfaces(s: zone) ? as Return array of interfaces (s) previously bound with zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getInterfaces. Possible errors: INVALID_ZONE getPorts(s: zone) ? aas Return array of ports (2-tuple of port and protocol) previously enabled in zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getPorts. Possible errors: INVALID ZONE getProtocols(s: zone) ? as Return array of protocols (s) previously enabled in zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getProtocols. Possible errors: INVALID_ZONE

getRichRules(s: zone) ? as

Return array of rich language rules (s) previously added into zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getRichRules. Possible errors: INVALID_ZONE getServices(s: zone) ? as Return array of services (s) previously enabled in zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getServices. Possible errors: INVALID_ZONE getSourcePorts(s: zone) ? aas Return array of source ports (2-tuple of port and protocol) previously enabled in zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getSourcePorts. Possible errors: INVALID_ZONE getSources(s: zone) ? as Return array of sources (s) previously bound with zone. If zone is empty, use default zone. For getting permanent settings see org.fedoraproject.FirewallD1.config.zone.Methods.getSources. Possible errors: INVALID_ZONE getZoneOfInterface(s: interface) ? s Return name (s) of zone the interface is bound to or empty string. getZoneOfSource(s: source) ? s Return name (s) of zone the source is bound to or empty string. getZones() ? as Return array of names (s) of predefined zones known to current runtime environment. For list of zones known to permanent environment see org.fedoraproject.FirewallD1.config.Methods.listZones. The lists (of zones known to runtime and permanent environment)

will contain same zones in most cases, but might differ for example if org.fedoraproject.FirewallD1.config.Methods.addZone has been called recently, but firewalld has not been reloaded since then. isImmutable(s: zone) ? b Deprecated. queryForwardPort(s: zone, s: port, s: protocol, s: toport, s: toaddr) ? b Return whether the IPv4 forward port (port, protocol, toport, toaddr) has been added into zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.queryForwardPort. Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL, INVALID_PROTOCOL, INVALID_ADDR, INVALID_FORWARD queryIcmpBlock(s: zone, s: icmp) ? b Return whether an ICMP block for icmp has been added into zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.guerylcmpBlock. Possible errors: INVALID_ZONE, INVALID_ICMPTYPE queryIcmpBlockInversion(s: zone) ? b Return whether ICMP block inversion has been added to zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.querylcmpBlockInversion. Possible errors: INVALID_ZONE, INVALID_ICMPTYPE queryInterface(s: zone, s: interface) ? b Query whether interface has been bound to zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.gueryInterface. Possible errors: INVALID_ZONE, INVALID_INTERFACE queryMasquerade(s: zone) ? b Return whether masquerading has been enabled in zone If zone is

empty, use default zone. For permanent operation see

org.fedoraproject.FirewallD1.config.zone.Methods.queryMasquerade.

Possible errors: INVALID_ZONE

queryPort(s: zone, s: port, s: protocol) ? b Return whether port/protocol has been added in zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.queryPort. Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL, INVALID_PROTOCOL queryProtocol(s: zone, s: protocol) ? b Return whether protocol has been added in zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.queryProtocol. Possible errors: INVALID_ZONE, INVALID_PROTOCOL queryRichRule(s: zone, s: rule) ? b Return whether rich rule rule has been added in zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.queryRichRule. Possible errors: INVALID_ZONE, INVALID_RULE queryService(s: zone, s: service) ? b Return whether service has been added for zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.queryService. Possible errors: INVALID_ZONE, INVALID_SERVICE querySource(s: zone, s: source) ? b Query whether sourcehas been bound to zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.guerySource. Possible errors: INVALID_ZONE, INVALID_ADDR querySourcePort(s: zone, s: port, s: protocol) ? b Return whether port/protocol has been added in zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.querySourcePort. Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL, INVALID_PROTOCOL

removeForwardPort(s: zone, s: port, s: protocol, s: toport, s:

toaddr) ? s

Remove IPv4 forward port ((port, protocol, toport, toaddr))

from zone. If zone is empty, use default zone. For permanent

operation see

org.fedoraproject.FirewallD1.config.zone.Methods.removeForwardPort.

Returns name of zone from which the forward port was removed.

Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL,

INVALID_PROTOCOL, INVALID_ADDR, INVALID_FORWARD, NOT_ENABLED,

INVALID_COMMAND

removelcmpBlock(s: zone, s: icmp) ? s

Remove ICMP block icmp from zone. If zone is empty, use default

zone. For permanent operation see

org.fedoraproject.FirewallD1.config.zone.Methods.removelcmpBlock.

Returns name of zone from which the ICMP block was removed.

Possible errors: INVALID_ZONE, INVALID_ICMPTYPE, NOT_ENABLED,

INVALID_COMMAND

removelcmpBlockInversion(s: zone) ? s

Remove ICMP block inversion from zone. If zone is empty, use

default zone. For permanent operation see

org.fedoraproject.FirewallD1.config.zone.Methods.removelcmpBlockInversion.

Returns name of zone from which the ICMP block inversion was

removed.

Possible errors: INVALID_ZONE, NOT_ENABLED, INVALID_COMMAND

removeInterface(s: zone, s: interface) ? s

Remove binding of interface from zone. If zone is empty, the

interface will be removed from zone it belongs to. For

permanent operation see

org.fedoraproject.FirewallD1.config.zone.Methods.removeInterface.

Returns name of zone from which the interface was removed.

Possible errors: INVALID_ZONE, INVALID_INTERFACE, NOT_ENABLED,

INVALID_COMMAND

Disable masquerade for zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.removeMasquerade. Returns name of zone for which the masquerade was disabled. Possible errors: INVALID_ZONE, NOT_ENABLED, INVALID_COMMAND removePort(s: zone, s: port, s: protocol) ? s Remove port/protocol from zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.removePort. Returns name of zone from which the port was removed. Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL, INVALID_PROTOCOL, NOT_ENABLED, INVALID_COMMAND removeProtocol(s: zone, s: protocol) ? s Remove protocol from zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.removeProtocol. Returns name of zone from which the protocol was removed. Possible errors: INVALID ZONE, INVALID PROTOCOL, NOT ENABLED, INVALID_COMMAND removeRichRule(s: zone, s: rule) ? s Remove rich language rule from zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.removeRichRule. Returns name of zone from which the rich language rule was removed. Possible errors: INVALID ZONE, INVALID RULE, NOT ENABLED, INVALID_COMMAND removeService(s: zone, s: service) ? s Remove service from zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.removeService. Returns name of zone from which the service was removed. Possible errors: INVALID_ZONE, INVALID_SERVICE, NOT_ENABLED,

INVALID_COMMAND

removeSource(s: zone, s: source) ? s Remove binding of source from zone. If zone is empty, the source will be removed from zone it belongs to. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.removeSource. Returns name of zone from which the source was removed. Possible errors: INVALID_ZONE, INVALID_ADDR, NOT_ENABLED, INVALID_COMMAND removeSourcePort(s: zone, s: port, s: protocol) ? s Remove port/protocol from zone. If zone is empty, use default zone. For permanent operation see org.fedoraproject.FirewallD1.config.zone.Methods.removeSourcePort. Returns name of zone from which the source port was removed. Possible errors: INVALID_ZONE, INVALID_PORT, MISSING_PROTOCOL, INVALID_PROTOCOL, NOT_ENABLED, INVALID_COMMAND

Signals

ForwardPortAdded(s: zone, s: port, s: protocol, s: toport, s:

toaddr, i: timeout)

Emitted when forward port has been added to zone with timeout.

ForwardPortRemoved(s: zone, s: port, s: protocol, s: toport, s:

toaddr)

Emitted when forward port has been removed from zone.

IcmpBlockAdded(s: zone, s: icmp, i: timeout)

Emitted when ICMP block for icmp has been added to zone with

timeout.

IcmpBlockInversionAdded(s: zone)

Emitted when ICMP block inversion has been added to zone.

IcmpBlockInversionRemoved(s: zone)

Emitted when ICMP block inversion has been removed from zone.

IcmpBlockRemoved(s: zone, s: icmp)

Emitted when ICMP block for icmp has been removed from zone.

InterfaceAdded(s: zone, s: interface)

Emitted when interface has been added to zone.

InterfaceRemoved(s: zone, s: interface)

Emitted when interface has been removed from zone.

MasqueradeAdded(s: zone, i: timeout)

Emitted when masquerade has been enabled for zone.

MasqueradeRemoved(s: zone)

Emitted when masquerade has been disabled for zone.

PortAdded(s: zone, s: port, s: protocol, i: timeout)

Emitted when port/protocol has been added to zone with timeout.

PortRemoved(s: zone, s: port, s: protocol)

Emitted when port/protocol has been removed from zone.

ProtocolAdded(s: zone, s: protocol, i: timeout)

Emitted when protocol has been added to zone with timeout.

ProtocolRemoved(s: zone, s: protocol)

Emitted when protocol has been removed from zone.

RichRuleAdded(s: zone, s: rule, i: timeout)

Emitted when rich language rule has been added to zone with

timeout.

RichRuleRemoved(s: zone, s: rule)

Emitted when rich language rule has been removed from zone.

ServiceAdded(s: zone, s: service, i: timeout)

Emitted when service has been added to zone with timeout.

ServiceRemoved(s: zone, s: service)

Emitted when service has been removed from zone.

SourceAdded(s: zone, s: source)

Emitted when source has been added to zone.

SourcePortAdded(s: zone, s: port, s: protocol, i: timeout)

Emitted when source-port/protocol has been added to zone with

timeout.

SourcePortRemoved(s: zone, s: port, s: protocol)

Emitted when source-port/protocol has been removed from zone.

SourceRemoved(s: zone, s: source)

Emitted when source has been removed from zone.

ZoneChanged(s: zone, s: interface)

Deprecated

ZoneOfInterfaceChanged(s: zone, s: interface)

Emitted when a zone an interface is part of has been changed to

zone.

ZoneOfSourceChanged(s: zone, s: source)

Emitted when a zone an source is part of has been changed to

zone.

ZoneUpdated2(s: zone, a{sv}: settings)

Emitted when a zone's settings are updated via

org.fedoraproject.FirewallD1.zone.Methods.setZoneSettings2

org.fedoraproject.FirewallD1.policy

Operations in this interface allows one to get, add, remove and query

runtime policy settings. For permanent settings see

org.fedoraproject.FirewallD1.config.policy interface.

Methods

getActivePolicies() ? a{sa{sas}}

Return dictionary of currently active policies altogether with ingress zones and egress zones used in these policies. Active policies are policies, that have a binding to an active ingress zone and an active egress zone. Return value is a dictionary where keys are policy names (s)

and values are again dictionaries where keys are either

'ingress_zones' or 'egress_zones' and values are arrays of zone names (s).

getPolicies() ? as

Return array of names (s) of predefined policies known to current runtime environment. For list of policies known to

permanent environment see

org.fedoraproject.FirewallD1.config.Methods.listPolicies. The

lists (of policies known to runtime and permanent environment)

will contain same policies in most cases, but might differ for

example if

org.fedoraproject.FirewallD1.config.Methods.addPolicy has been called recently, but firewalld has not been reloaded since then. getPolicySettings(s: policy) ? a{sv} Return runtime settings of given policy. For getting permanent settings see org.fedoraproject.FirewallD1.config.policy.Methods.getSettings. Settings are a dictionary indexed by keywords. For possible keywords see org.fedoraproject.FirewallD1.config.Methods.addPolicy. If the value is empty it may be omitted. Possible errors: INVALID_POLICY setPolicySettings(s: policy, a{sv}: settings, i: timeout) Set runtime settings of given policy. For setting permanent settings see org.fedoraproject.FirewallD1.config.policy.Methods.update. Settings are a dictionary indexed by keywords. For possible keywords see org.fedoraproject.FirewallD1.config.Methods.addPolicy. To zero

a value pass an empty string or list. Some keywords are not

available to modify in the runtime: description, name,

priority, target, version.

Possible errors: INVALID_POLICY

Signals

ForwardPortAdded(s: policy, a{sv}: settings)

Emitted when a policy's settings are updated via

org.fedoraproject.FirewallD1.policy.Methods.setPolicySettings

org.fedoraproject.FirewallD1.config

Allows one to permanently add, remove and query zones, services and

icmp types.

Methods

addIPSet(s: ipset, (ssssa{ss}as): settings) ? o

Add ipset with given settings into permanent configuration.

Settings are in format: version, name, description, type, dictionary of options and array of entries. version (s): see version attribute of ipset tag in firewalld.ipset(5). name (s): see short tag in firewalld.ipset(5). description (s): see description tag in firewalld.ipset(5). type (s): see type attribute of ipset tag in firewalld.ipset(5). options (a{ss}): dictionary of {option : value} . See options tag in firewalld.ipset(5). entries (as): array of entries, see entry tag in firewalld.ipset(5). Possible errors: NAME_CONFLICT, INVALID_NAME, INVALID_TYPE addlcmpType(s: icmptype, (sssas): settings) ? o Add icmptype with given settings into permanent configuration. Settings are in format: version, name, description, array of destinations. Returns object path of the new icmp type. version (s): see version attribute of icmptype tag in firewalld.icmptype(5). name (s): see short tag in firewalld.icmptype(5). description (s): see description tag in firewalld.icmptype(5). destinations (as): array, either empty or containing strings 'ipv4' or 'ipv6', see destination tag in firewalld.icmptype(5). Possible errors: NAME_CONFLICT, INVALID_NAME, INVALID_TYPE addService(s: service, (sssa(ss)asa{ss}asa(ss)): settings) ? o This function is deprecated, use org.fedoraproject.FirewallD1.config.Methods.addService2 instead. addService2s: service, a{sv}: settings) ? o Add service with given settings into permanent configuration. Settings are a dictionary indexed by keywords. For the type of each value see below. To zero a value pass an empty string or

version (s): see version attribute of service tag in firewalld.service(5). name (s): see short tag in firewalld.service(5). description (s): see description tag in firewalld.service(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.service(5). module names (as): array of kernel netfilter helpers, see module tag in firewalld.service(5). destinations (a{ss}): dictionary of {IP family : IP address} where 'IP family' key can be either 'ipv4' or 'ipv6'. See destination tag in firewalld.service(5). protocols (as): array of protocols, see protocol tag in firewalld.service(5). source_ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.service(5). includes (as): array of service includes, see include tag in firewalld.service(5). helpers (as): array of service helpers, see helper tag in firewalld.service(5). Possible errors: NAME_CONFLICT, INVALID_NAME, INVALID_TYPE addZone(s: zone, (sssbsasa(ss)asba(ssss)asasasasa(ss)b): settings) ?0 This function is deprecated, use org.fedoraproject.FirewallD1.config.Methods.addZone2 instead. addZone2(s: zone, a{sv}: settings) ? o Add zone with given settings into permanent configuration. Settings are a dictionary indexed by keywords. For the type of

each value see below. To zero a value pass an empty string or

list.

version (s): see version attribute of zone tag in

firewalld.zone(5).

name (s): see short tag in firewalld.zone(5).

description (s): see description tag in firewalld.zone(5).

target (s): see target attribute of zone tag in firewalld.zone(5). services (as): array of service names, see service tag in firewalld.zone(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.zone(5). icmp_blocks (as): array of icmp-blocks. See icmp-block tag in firewalld.zone(5). masquerade (b): see masquerade tag in firewalld.zone(5). forward_ports (a(ssss)): array of (port, protocol, to-port, to-addr). See forward-port tag in firewalld.zone(5). interfaces (as): array of interfaces. See interface tag in firewalld.zone(5). sources (as): array of source addresses. See source tag in firewalld.zone(5). rules_str (as): array of rich-language rules. See rule tag in firewalld.zone(5). protocols (as): array of protocols, see protocol tag in firewalld.zone(5). source_ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.zone(5). icmp_block_inversion (b): see icmp-block-inversion tag in firewalld.zone(5). forward (b): see forward tag in firewalld.zone(5). Possible errors: NAME_CONFLICT, INVALID_NAME, INVALID_TYPE addPolicy(s: policy, a{sv}: settings) ? o Add policy with given settings into permanent configuration. Settings are a dictionary indexed by keywords. For the type of each value see below. If a keyword is omitted the default value will be used. description (s): see description tag in firewalld.policy(5). egress_zones as: array of zone names. See egress-zone tag in firewalld.policy(5).

forward ports (a(ssss)): array of (port, protocol, to-port, to-addr). See forward-port tag in firewalld.policy(5). icmp_blocks (as): array of icmp-blocks. See icmp-block tag in firewalld.policy(5). ingress_zones as: array of zone names. See ingress-zone tag in firewalld.policy(5). masquerade (b): see masquerade tag in firewalld.policy(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.policy(5). priority (i): see priority tag in firewalld.policy(5). protocols (as): array of protocols, see protocol tag in firewalld.policy(5). rich_rules (as): array of rich-language rules. See rule tag in firewalld.policy(5). services (as): array of service names, see service tag in firewalld.policy(5). short (s): see short tag in firewalld.policy(5). source ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.policy(5). target (s): see target attribute of policy tag in firewalld.policy(5). version (s): see version attribute of policy tag in firewalld.policy(5). Possible errors: NAME_CONFLICT, INVALID_NAME, INVALID_TYPE getHelperByName(s: helper) ? o Return object path (permanent configuration) of helper with given name. Possible errors: INVALID_HELPER getHelperNames() ? as Return list of helper names (permanent configuration). getIPSetByName(s: ipset) ? o Return object path (permanent configuration) of ipset with given name.

Possible errors: INVALID_IPSET

getIPSetNames() ? as

Return list of ipset names (permanent configuration).

getIcmpTypeByName(s: icmptype) ? o

Return object path (permanent configuration) of icmptype with

given name.

Possible errors: INVALID_ICMPTYPE

getIcmpTypeNames() ? as

Return list of icmptype names (permanent configuration).

getServiceByName(s: service) ? o

Return object path (permanent configuration) of service with

given name.

Possible errors: INVALID_SERVICE

getServiceNames() ? as

Return list of service names (permanent configuration).

getZoneByName(s: zone) ? o

Return object path (permanent configuration) of zone with given

name.

Possible errors: INVALID_ZONE

```
getZoneNames() ? as
```

Return list of zone names (permanent configuration) of.

getZoneOfInterface(s: iface) ? s

Return name of zone the iface is bound to or empty string.

getZoneOfSource(s: source) ? s

Return name of zone the source is bound to or empty string.

getPolicyByName(s: policy) ? o

Return object path (permanent configuration) of policy with

given name.

Possible errors: INVALID_POLICY

getPolicyNames() ? as

Return list of policy names (permanent configuration).

listHelpers() ? ao

Return array of object paths (o) of helper in permanent

configuration. For runtime configuration see

org.fedoraproject.FirewallD1.Methods.getHelpers.

listIPSets() ? ao

Return array of object paths (o) of ipset in permanent

configuration. For runtime configuration see

org.fedoraproject.FirewallD1.ipset.Methods.getIPSets.

listIcmpTypes() ? ao

Return array of object paths (o) of icmp types in permanent configuration. For runtime configuration see org.fedoraproject.FirewallD1.Methods.listlcmpTypes.

listServices() ? ao

Return array of objects paths (o) of services in permanent configuration. For runtime configuration see org.fedoraproject.FirewallD1.Methods.listServices.

listZones() ? ao

List object paths of zones known to permanent environment. For list of zones known to runtime environment see org.fedoraproject.FirewallD1.zone.Methods.getZones. The lists (of zones known to runtime and permanent environment) will contain same zones in most cases, but might differ for example if org.fedoraproject.FirewallD1.config.Methods.addZone has been called recently, but firewalld has not been reloaded since then. listPolicies() ? ao

List object paths of policies known to permanent environment. For list of policies known to runtime environment see org.fedoraproject.FirewalID1.policy.Methods.getPolicies. The lists (of policies known to runtime and permanent environment) will contain same policies in most cases, but might differ for example if org.fedoraproject.FirewalID1.config.Methods.addPolicy has been called recently, but firewalld has not been reloaded since then.

Signals

HelperAdded(s: helper)

Emitted when helper has been added.

IPSetAdded(s: ipset)

Emitted when ipset has been added.

IcmpTypeAdded(s: icmptype)

Emitted when icmptype has been added.

ServiceAdded(s: service)

Emitted when service has been added.

ZoneAdded(s: zone)

Emitted when zone has been added.

Properties

AllowZoneDrifting - s - (rw)

Deprecated. Getting this value always returns "no". Setting

this value is ignored.

AutomaticHelpers - s - (rw)

Deprecated. Getting this value always returns "no". Setting

this value is ignored.

```
CleanupModulesOnExit - s - (rw)
```

Setting this option to yes or true unloads all firewall-related

kernel modules when firewalld is stopped.

CleanupOnExit - s - (rw)

If firewalld stops, it cleans up all firewall rules. Setting

this option to no or false leaves the current firewall rules

untouched.

DefaultZone - s - (ro)

Default zone for connections or interfaces if the zone is not

selected or specified by NetworkManager, initscripts or command

line tool.

FirewallBackend - s - (rw)

Selects the firewalld backend for all rules except the direct

interface. Valid options are; nftables, iptables. Default in

nftables.

Note: The iptables backend is deprecated. It will be removed in a future release.

FlushAllOnReload - s - (rw)

Flush all runtime rules on a reload. Valid options are; yes,

no.

IPv6_rpfilter - s - (rw)

Indicates whether the reverse path filter test on a packet for IPv6 is enabled. If a reply to the packet would be sent via the same interface that the packet arrived on, the packet will match and be accepted, otherwise dropped.

IndividualCalls - s - (ro)

Indicates whether individual calls combined -restore calls are used. If enabled, this increases the time that is needed to apply changes and to start the daemon, but is good for debugging.

Lockdown - s - (rw)

If this property is enabled, firewall changes with the D-Bus

interface will be limited to applications that are listed in

the lockdown whitelist.

LogDenied - s - (rw)

If LogDenied is enabled, then logging rules are added right before reject and drop rules in the INPUT, FORWARD and OUTPUT chains for the default rules and also final reject and drop rules in zones. Possible values are: all, unicast, broadcast, multicast and off.

MinimalMark - i - (rw)

Deprecated. This option is ignored and no longer used. Marks are no longer used internally.

RFC3964_IPv4 - s - (rw)

As per RFC 3964, filter IPv6 traffic with 6to4 destination

addresses that correspond to IPv4 addresses that should not be

routed over the public internet. Valid options are; yes, no.

DEPRECATED

The direct interface has been deprecated. It will be removed in a future release. It is superseded by policies, see firewalld.policies(5).

Interface for permanent direct configuration, see also firewalld.direct(5). For runtime direct configuration see org.fedoraproject.FirewallD1.direct interface.

Methods

addChain(s: ipv, s: table, s: chain) ? Nothing Add a new chain to table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Make sure there's no other chain with this name already. There already exist basic chains to use with direct methods, for example INPUT_direct chain. These chains are jumped into before chains for zones, i.e. every rule put into INPUT_direct will be checked before rules in zones. For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.addChain. Possible errors: INVALID IPV, INVALID TABLE, ALREADY ENABLED addPassthrough(s: ipv, as: args) ? Nothing Add a passthrough rule with the arguments args for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.addPassthrough. Possible errors: INVALID_IPV, ALREADY_ENABLED addRule(s: ipv, s: table, s: chain, i: priority, as: args) ? Nothing Add a rule with the arguments args to chain in table with priority for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). The priority is used to order rules. Priority 0 means add rule on top of the chain, with a higher priority the rule will be added further down. Rules with the same priority are on the same level and the order of these

rules is not fixed and may change. If you want to make sure

that a rule will be added after another one, use a low priority for the first and a higher for the following. For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.addRule. Possible errors: INVALID_IPV, INVALID_TABLE, ALREADY_ENABLED getAllChains() ? a(sss) Get all chains added to all tables in format: ipv, table, chain. This concerns only chains previously added with addChain. Return value is a array of (ipv, table, chain). For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.getAllChains. ipv (s): either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). table (s): one of filter, mangle, nat, raw, security chain (s): name of a chain. getAllPassthroughs() ? a(sas) Get all passthrough rules added in all ipv types in format: ipv, rule. This concerns only rules previously added with addPassthrough. Return value is a array of (ipv, array of arguments). For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.getAllPassthroughs. ipv (s): either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). arguments (as): array of commands, parameters and other iptables/ip6tables/ebtables command line options. getAllRules() ? a(sssias) Get all rules added to all chains in all tables in format: ipv, table, chain, priority, rule. This concerns only rules previously added with addRule. Return value is a array of (ipv, table, chain, priority, array of arguments). For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.getAllRules. ipv (s): either ipv4 (iptables) or ipv6 (ip6tables) or eb

(ebtables).

table (s): one of filter, mangle, nat, raw, security

chain (s): name of a chain.

priority (i): used to order rules.

arguments (as): array of commands, parameters and other

iptables/ip6tables/ebtables command line options.

getChains(s: ipv, s: table) ? as

Return an array of chains (s) added to table for ipv being

either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables).

This concerns only chains previously added with addChain. For

runtime operation see

org.fedoraproject.FirewallD1.direct.Methods.getChains.

Possible errors: INVALID_IPV, INVALID_TABLE

getPassthroughs(s: ipv) ? aas

Get tracked passthrough rules added in either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addPassthrough. Return value is a array of (array of arguments). For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.getPassthroughs. arguments (as): array of commands, parameters and other iptables/ip6tables/ebtables command line options.

getRules(s: ipv, s: table, s: chain) ? a(ias)

Get all rules added to chain in table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addRule. Return value is a array of (priority, array of arguments). For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.getRules. priority (i): used to order rules.

arguments (as): array of commands, parameters and other

iptables/ip6tables/ebtables command line options.

Possible errors: INVALID_IPV, INVALID_TABLE

getSettings() ? (a(sss)a(sssias)a(sas))

Get settings of permanent direct configuration in format: array

of chains, array of rules, array of passthroughs. chains (a(sss)): array of (ipv, table, chain), see 'chain' in firewalld.direct(5).

.PP rules (a(sssias)): array of (ipv, table, chain, priority, array of arguments), see 'rule' in firewalld.direct(5).

.PP passthroughs (a(sas)): array of (ipv, array of arguments), see passthrough in firewalld.direct(5).

.sp

queryChain(s: ipv, s: table, s: chain) ? b

Return whether a chain exists in table for ipv being either

ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This

concerns only chains previously added with addChain. For

runtime operation see

org.fedoraproject.FirewallD1.direct.Methods.queryChain.

Possible errors: INVALID_IPV, INVALID_TABLE

queryPassthrough(s: ipv, as: args) ? b

Return whether a tracked passthrough rule with the arguments args exists for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addPassthrough. For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.queryPassthrough. Possible errors: INVALID_IPV queryRule(s: ipv, s: table, s: chain, i: priority, as: args) ? b

Return whether a rule with priority and the arguments args exists in chain in table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addRule. For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.queryRule. Possible errors: INVALID_IPV, INVALID_TABLE

removeChain(s: ipv, s: table, s: chain) ? Nothing Remove a chain from table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Only chains previously added with addChain can be removed this way. For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.removeChain. Possible errors: INVALID_IPV, INVALID_TABLE, NOT_ENABLED removePassthrough(s: ipv, as: args) ? Nothing Remove a passthrough rule with arguments args for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Only rules previously added with addPassthrough can be removed this way. For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.removePassthrough. Possible errors: INVALID_IPV, NOT_ENABLED removeRule(s: ipv, s: table, s: chain, i: priority, as: args) ? Nothing Remove a rule with priority and arguments args from chain in table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). Only rules previously added with addRule can be removed this way. For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.removeRule. Possible errors: INVALID_IPV, INVALID_TABLE, NOT_ENABLED removeRules(s: ipv, s: table, s: chain) ? Nothing Remove all rules from chain in table for ipv being either ipv4 (iptables) or ipv6 (ip6tables) or eb (ebtables). This concerns only rules previously added with addRule. For runtime operation see org.fedoraproject.FirewallD1.direct.Methods.removeRules. Possible errors: INVALID_IPV, INVALID_TABLE update((a(sss)a(sssias)a(sas)): settings) ? Nothing Update permanent direct configuration with given settings. Settings are in format: array of chains, array of rules, array of passthroughs.

chains (a(sss)): array of (ipv, table, chain), see 'chain' in

firewalld.direct(5).

.PP rules (a(sssias)): array of (ipv, table, chain, priority, array of arguments), see 'rule' in firewalld.direct(5).

.PP passthroughs (a(sas)): array of (ipv, array of arguments), see passthrough in firewalld.direct(5).

.sp Possible errors: INVALID_TYPE

Signals

Updated()

Emitted when configuration has been updated.

org.fedoraproject.FirewallD1.config.policies

Interface for permanent lockdown-whitelist configuration, see also

firewalld.lockdown-whitelist(5). For runtime configuration see

org.fedoraproject.FirewallD1.policies interface.

Methods

addLockdownWhitelistCommand(s: command) ? Nothing

Add command to whitelist. See command option in

firewalld.lockdown-whitelist(5). For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.addLockdownWhitelistCommand.

Possible errors: ALREADY_ENABLED, INVALID_TYPE

addLockdownWhitelistContext(s: context) ? Nothing

Add context to whitelist. See selinux option in

firewalld.lockdown-whitelist(5). For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.addLockdownWhitelistContext.

Possible errors: ALREADY_ENABLED, INVALID_TYPE

addLockdownWhitelistUid(i: uid) ? Nothing

Add user id uid to whitelist. See user option in

firewalld.lockdown-whitelist(5). For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.addLockdownWhitelistUid.

Possible errors: ALREADY_ENABLED, INVALID_TYPE

addLockdownWhitelistUser(s: user) ? Nothing

Add user name to whitelist. See user option in

firewalld.lockdown-whitelist(5). For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.addLockdownWhitelistUser.

Possible errors: ALREADY_ENABLED, INVALID_TYPE

getLockdownWhitelist() ? (asasasai)

Get settings of permanent lockdown-whitelist configuration in

format: commands, selinux contexts, users, uids

commands (as): see command option in firewalld.lockdown-

whitelist(5).

selinux contexts (as): see selinux option in

firewalld.lockdown-whitelist(5).

users (as): see name attribute of user option in

firewalld.lockdown-whitelist(5).

uids (ai): see id attribute of user option in

firewalld.lockdown-whitelist(5).

getLockdownWhitelistCommands() ? as

List all command lines (s) that are on whitelist. For runtime

operation see

org.fedoraproject.FirewallD1.policies.Methods.getLockdownWhitelistCommands.

getLockdownWhitelistContexts() ? as

List all contexts (s) that are on whitelist. For runtime

operation see

org.fedoraproject.FirewallD1.policies.Methods.getLockdownWhitelistContexts.

getLockdownWhitelistUids() ? ai

List all user ids (i) that are on whitelist. For runtime

operation see

org.fedoraproject.FirewallD1.policies.Methods.getLockdownWhitelistUids.

getLockdownWhitelistUsers() ? as

List all users (s) that are on whitelist. For runtime operation

see

org.fedoraproject.FirewallD1.policies.Methods.getLockdownWhitelistUsers.

queryLockdownWhitelistCommand(s: command) ? b

Query whether command is on whitelist. For runtime operation

see

org.fedoraproject.FirewallD1.policies.Methods.queryLockdownWhitelistCommand.

queryLockdownWhitelistContext(s: context) ? b

Query whether context is on whitelist. For runtime operation

see

org.fedoraproject.FirewallD1.policies.Methods.queryLockdownWhitelistContext.

queryLockdownWhitelistUid(i: uid) ? b

Query whether user id uid is on whitelist. For runtime

operation see

org.fedoraproject.FirewallD1.policies.Methods.queryLockdownWhitelistUid.

queryLockdownWhitelistUser(s: user) ? b

Query whether user is on whitelist. For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.queryLockdownWhitelistUser.

removeLockdownWhitelistCommand(s: command) ? Nothing

Remove command from whitelist. For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.removeLockdownWhitelistCommand.

Possible errors: NOT_ENABLED

removeLockdownWhitelistContext(s: context) ? Nothing

Remove context from whitelist. For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.removeLockdownWhitelistContext.

Possible errors: NOT_ENABLED

removeLockdownWhitelistUid(i: uid) ? Nothing

Remove user id uid from whitelist. For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.removeLockdownWhitelistUid.

Possible errors: NOT_ENABLED

removeLockdownWhitelistUser(s: user) ? Nothing

Remove user from whitelist. For runtime operation see

org.fedoraproject.FirewallD1.policies.Methods.removeLockdownWhitelistUser.

Possible errors: NOT_ENABLED

setLockdownWhitelist((asasasai): settings) ? Nothing

Set permanent lockdown-whitelist configuration to settings.

Settings are in format: commands, selinux contexts, users, uids

commands (as): see command option in firewalld.lockdownwhitelist(5). selinux contexts (as): see selinux option in firewalld.lockdown-whitelist(5). users (as): see name attribute of user option in firewalld.lockdown-whitelist(5). uids (ai): see id attribute of user option in firewalld.lockdown-whitelist(5). Possible errors: INVALID TYPE Signals LockdownWhitelistUpdated() Emitted when permanent lockdown-whitelist configuration has been updated. org.fedoraproject.FirewallD1.config.ipset Interface for permanent ipset configuration, see also firewalld.ipset(5). Methods addEntry(s: entry) ? Nothing Permanently add entry to list of entries of ipset. See entry tag in firewalld.ipset(5). For runtime operation see org.fedoraproject.FirewallD1.ipset.Methods.addEntry. Possible errors: ALREADY_ENABLED addOption(s: key, s: value) ? Nothing Permanently add (key, value) to the ipset. See option tag in firewalld.ipset(5). Possible errors: ALREADY ENABLED getDescription() ? s Get description of ipset. See description tag in firewalld.ipset(5). getEntries() ? as Get list of entries added to ipset. See entry tag in firewalld.ipset(5). For runtime operation see

org.fedoraproject.FirewallD1.ipset.Methods.getEntries.

Possible errors: IPSET WITH TIMEOUT getOptions() ? a{ss} Get dictionary of options set for ipset. See option tag in firewalld.ipset(5). getSettings() ? (ssssa{ss}as) Return permanent settings of the ipset. For getting runtime settings see org.fedoraproject.FirewallD1.ipset.Methods.getIPSetSettings. Settings are in format: version, name, description, type, dictionary of options and array of entries. version (s): see version attribute of ipset tag in firewalld.ipset(5). name (s): see short tag in firewalld.ipset(5). description (s): see description tag in firewalld.ipset(5). type (s): see type attribute of ipset tag in firewalld.ipset(5). options (a{ss}): dictionary of {option : value} . See options tag in firewalld.ipset(5). entries (as): array of entries, see entry tag in firewalld.ipset(5). getShort() ? s Get name of ipset. See short tag in firewalld.ipset(5). getType() ? s Get type of ipset. See type attribute of ipset tag in firewalld.ipset(5). getVersion() ? s Get version of ipset. See version attribute of ipset tag in firewalld.ipset(5). loadDefaults() ? Nothing Load default settings for built-in ipset. Possible errors: NO_DEFAULTS queryEntry(s: entry) ? b

Return whether entry has been added to ipset. For runtime

operation see

org.fedoraproject.FirewallD1.ipset.Methods.queryEntry.

queryOption(s: key, s: value) ? b

Return whether (key, value) has been added to options of the

ipset.

remove() ? Nothing

Remove not built-in ipset.

Possible errors: BUILTIN_IPSET

removeEntry(s: entry) ? Nothing

Permanently remove entry from ipset. See entry tag in

firewalld.ipset(5). For runtime operation see

org.fedoraproject.FirewallD1.ipset.Methods.removeEntry.

Possible errors: NOT_ENABLED

removeOption(s: key) ? Nothing

Permanently remove key from the ipset. See option tag in

firewalld.ipset(5).

Possible errors: NOT_ENABLED

rename(s: name) ? Nothing

Rename not built-in ipset to name.

Possible errors: BUILTIN_IPSET

setDescription(s: description) ? Nothing

Permanently set description of ipset to description. See

description tag in firewalld.ipset(5).

setEntries(as: entries) ? Nothing

Permanently set list of entries to entries. See entry tag in

firewalld.ipset(5).

setOptions(a{ss}: options) ? Nothing

Permanently set dict of options to options. See option tag in

firewalld.ipset(5).

setShort(s: short) ? Nothing

Permanently set name of ipset to short. See short tag in

firewalld.ipset(5).

setType(s: ipset_type) ? Nothing

Permanently set type of ipset to ipset type. See type attribute of ipset tag in firewalld.ipset(5). setVersion(s: version) ? Nothing Permanently set version of ipset to version. See version attribute of ipset tag in firewalld.ipset(5). update((ssssa{ss}as): settings) ? Nothing Update settings of ipset to settings. Settings are in format: version, name, description, type, dictionary of options and array of entries. version (s): see version attribute of ipset tag in firewalld.ipset(5). name (s): see short tag in firewalld.ipset(5). description (s): see description tag in firewalld.ipset(5). type (s): see type attribute of ipset tag in firewalld.ipset(5). options (a{ss}): dictionary of {option : value} . See options tag in firewalld.ipset(5). entries (as): array of entries, see entry tag in firewalld.ipset(5). Possible errors: INVALID_TYPE Signals

Removed(s: name)

Emitted when ipset with name has been removed.

Renamed(s: name)

Emitted when ipset has been renamed to name.

Updated(s: name)

Emitted when ipset with name has been updated.

Properties

builtin - b - (ro)

True if ipset is build-in, false else.

default - b - (ro)

True if build-in ipset has default settings. False if it has

been modified. Always False for not build-in ipsets.

```
filename - s - (ro)
```

Name (including .xml extension) of file where the configuration

is stored.

name - s - (ro)

Name of ipset.

path - s - (ro)

Path to directory where the ipset configuration is stored.

Should be either /usr/lib/firewalld/ipsets or

/etc/firewalld/ipsets.

org.fedoraproject.FirewallD1.config.zone

Interface for permanent zone configuration, see also firewalld.zone(5).

Methods

addForwardPort(s: port, s: protocol, s: toport, s: toaddr) ?

Nothing

Permanently add (port, protocol, toport, toaddr) to list of

forward ports of zone. See forward-port tag in

firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.addForwardPort.

Possible errors: ALREADY_ENABLED

addlcmpBlock(s: icmptype) ? Nothing

Permanently add icmptype to list of icmp types blocked in zone.

See icmp-block tag in firewalld.zone(5). For runtime operation

see org.fedoraproject.FirewallD1.zone.Methods.addlcmpBlock.

Possible errors: ALREADY_ENABLED

addlcmpBlock(s: icmptype) ? Nothing

Permanently add icmp block inversion to zone. See

icmp-block-inversion tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.addlcmpBlockInversion.

Possible errors: ALREADY_ENABLED

addInterface(s: interface) ? Nothing

Permanently add interface to list of interfaces bound to zone.

See interface tag in firewalld.zone(5). For runtime operation

see org.fedoraproject.FirewallD1.zone.Methods.addInterface.

Possible errors: ALREADY_ENABLED

addMasquerade() ? Nothing

Permanently enable masquerading in zone. See masquerade tag in

firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.addMasquerade.

Possible errors: ALREADY_ENABLED

addPort(s: port, s: protocol) ? Nothing

Permanently add (port, protocol) to list of ports of zone. See

port tag in firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.addPort.

Possible errors: ALREADY_ENABLED

addProtocol(s: protocol) ? Nothing

Permanently add protocol into zone. The protocol can be any

protocol supported by the system. Please have a look at

/etc/protocols for supported protocols. For runtime operation

see org.fedoraproject.FirewallD1.zone.Methods.addProtocol.

Possible errors: INVALID_PROTOCOL, ALREADY_ENABLED

addRichRule(s: rule) ? Nothing

Permanently add rule to list of rich-language rules in zone.

See rule tag in firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.addRichRule.

Possible errors: ALREADY_ENABLED

addService(s: service) ? Nothing

Permanently add service to list of services used in zone. See

service tag in firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.addService.

Possible errors: ALREADY_ENABLED

addSource(s: source) ? Nothing

Permanently add source to list of source addresses bound to

zone. See source tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.addSource.

Possible errors: ALREADY_ENABLED

addSourcePort(s: port, s: protocol) ? Nothing Permanently add (port, protocol) to list of source ports of zone. See source-port tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.addSourcePort. Possible errors: ALREADY_ENABLED getDescription() ? s Get description of zone. See description tag in firewalld.zone(5). getForwardPorts() ? a(ssss) Get list of (port, protocol, toport, toaddr) defined in zone. See forward-port tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.getForwardPorts. getIcmpBlockInversion() ? b Get icmp block inversion flag of zone. See icmp-block-inversion tag in firewalld.zone(5). getIcmpBlocks() ? as Get list of icmp type names blocked in zone. See icmp-block tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.getIcmpBlocks. getInterfaces() ? as Get list of interfaces bound to zone. See interface tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.getInterfaces. getMasquerade() ? b Return whether masquerade is enabled in zone. This is the same as queryMasquerade() method. See masquerade tag in firewalld.zone(5). getPorts() ? a(ss) Get list of (port, protocol) defined in zone. See port tag in firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.getPorts.

getProtocols() ? as

Return array of protocols (s) previously enabled in zone. For

getting runtime settings see

org.fedoraproject.FirewallD1.zone.Methods.getProtocols.

getRichRules() ? as

Get list of rich-language rules in zone. See rule tag in

firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.getRichRules.

getServices() ? as

Get list of service names used in zone. See service tag in

firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.getServices.

getSettings() ? (sssbsasa(ss)asba(ssss)asasasasa(ss)b)

This function is deprecated, use

org.fedoraproject.FirewallD1.config.zone.Methods.getSettings2 instead.

getSettings2() ? a{sv}

Return permanent settings of given zone. For getting runtime settings see

org.fedora project. Firewall D1. zone. Methods.get Zone Settings 2.

Settings are a dictionary indexed by keywords. For the type of

each value see below. If the value is empty it may be omitted.

version (s): see version attribute of zone tag in

firewalld.zone(5).

name (s): see short tag in firewalld.zone(5).

description (s): see description tag in firewalld.zone(5).

target (s): see target attribute of zone tag in

firewalld.zone(5).

services (as): array of service names, see service tag in

firewalld.zone(5).

ports (a(ss)): array of port and protocol pairs. See port tag

in firewalld.zone(5).

icmp blocks (as): array of icmp-blocks. See icmp-block tag in firewalld.zone(5). masquerade (b): see masquerade tag in firewalld.zone(5). forward_ports (a(ssss)): array of (port, protocol, to-port, to-addr). See forward-port tag in firewalld.zone(5). interfaces (as): array of interfaces. See interface tag in firewalld.zone(5). sources (as): array of source addresses. See source tag in firewalld.zone(5). rules_str (as): array of rich-language rules. See rule tag in firewalld.zone(5). protocols (as): array of protocols, see protocol tag in firewalld.zone(5). source_ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.zone(5). icmp_block_inversion (b): see icmp-block-inversion tag in firewalld.zone(5). forward (b): see forward tag in firewalld.zone(5). getShort() ? s Get name of zone. See short tag in firewalld.zone(5). getSourcePorts() ? a(ss) Get list of (port, protocol) defined in zone. See source-port tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.getSourcePorts. getSources() ? as Get list of source addresses bound to zone. See source tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.getSources. getTarget() ? s Get target of zone. See target attribute of zone tag in firewalld.zone(5). getVersion() ? s

Get version of zone. See version attribute of zone tag in

firewalld.zone(5).

loadDefaults() ? Nothing

Load default settings for built-in zone.

Possible errors: NO_DEFAULTS

queryForwardPort(s: port, s: protocol, s: toport, s: toaddr) ? b
Return whether (port, protocol, toport, toaddr) is in list of
forward ports of zone. See forward-port tag in
firewalld.zone(5). For runtime operation see
org.fedoraproject.FirewallD1.zone.Methods.queryForwardPort.
queryIcmpBlock(s: icmptype) ? b
Return whether icmptype is in list of icmp types blocked in
zone. See icmp-block tag in firewalld.zone(5). For runtime
operation see
org.fedoraproject.FirewallD1.zone.Methods.queryIcmpBlock.
queryIcmpBlockInversion() ? b
Return whether icmp block inversion is in enabled in zone. See

icmp-block-inversion tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.queryIcmpBlockInversion.

queryInterface(s: interface) ? b

Return whether interface is in list of interfaces bound to

zone. See interface tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.queryInterface.

queryMasquerade() ? b

Return whether masquerade is enabled in zone. This is the same

as getMasquerade() method. See masquerade tag in

firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.queryMasquerade.

queryPort(s: port, s: protocol) ? b

Return whether (port, protocol) is in list of ports of zone.

See port tag in firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.queryPort.

queryProtocol(s: protocol) ? b

Return whether protocol has been added in zone. For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.queryProtocol.

Possible errors: INVALID_PROTOCOL

queryRichRule(s: rule) ? b

Return whether rule is in list of rich-language rules in zone.

See rule tag in firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.queryRichRule.

queryService(s: service) ? b

Return whether service is in list of services used in zone. See service tag in firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.queryService.

querySource(s: source) ? b

Return whether source is in list of source addresses bound to

zone. See source tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.querySource.

querySourcePort(s: port, s: protocol) ? b

Return whether (port, protocol) is in list of source ports of

zone. See source-port tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.querySourcePort.

remove() ? Nothing

Remove not built-in zone.

Possible errors: BUILTIN_ZONE

removeForwardPort(s: port, s: protocol, s: toport, s: toaddr) ?

Nothing

Permanently remove (port, protocol, toport, toaddr) from list

of forward ports of zone. See forward-port tag in

firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.removeForwardPort.

Possible errors: NOT_ENABLED

removelcmpBlock(s: icmptype) ? Nothing

Permanently remove icmptype from list of icmp types blocked in

zone. See icmp-block tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.removelcmpBlock.

Possible errors: NOT_ENABLED

removelcmpBlockInversion() ? Nothing

Permanently remove icmp block inversion from the zone. See

icmp-block-inversion tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.removelcmpBlockInversion.

Possible errors: NOT_ENABLED

removeInterface(s: interface) ? Nothing

Permanently remove interface from list of interfaces bound to

zone. See interface tag in firewalld.zone(5). For runtime

operation see

org.fedoraproject.FirewallD1.zone.Methods.removeInterface.

Possible errors: NOT_ENABLED

removeMasquerade() ? Nothing

Permanently disable masquerading in zone. See masquerade tag in

firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.removeMasquerade.

Possible errors: NOT_ENABLED

removePort(s: port, s: protocol) ? Nothing

Permanently remove (port, protocol) from list of ports of zone.

See port tag in firewalld.zone(5). For runtime operation see

org.fedoraproject.FirewallD1.zone.Methods.removePort.

Possible errors: NOT_ENABLED

removeProtocol(s: protocol) ? Nothing

Permanently remove protocol from zone. For runtime operation

see org.fedoraproject.FirewallD1.zone.Methods.removeProtocol.

Possible errors: INVALID_PROTOCOL, NOT_ENABLED

Permanently remove rule from list of rich-language rules in zone. See rule tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.removeRichRule. Possible errors: NOT_ENABLED removeService(s: service) ? Nothing Permanently remove service from list of services used in zone. See service tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.removeService. Possible errors: NOT ENABLED removeSource(s: source) ? Nothing Permanently remove source from list of source addresses bound to zone. See source tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.removeSource. Possible errors: NOT_ENABLED removeSourcePort(s: port, s: protocol) ? Nothing Permanently remove (port, protocol) from list of source ports of zone. See source-port tag in firewalld.zone(5). For runtime operation see org.fedoraproject.FirewallD1.zone.Methods.removeSourcePort. Possible errors: NOT_ENABLED rename(s: name) ? Nothing Rename not built-in zone to name. Possible errors: BUILTIN_ZONE setDescription(s: description) ? Nothing Permanently set description of zone to description. See description tag in firewalld.zone(5). setForwardPorts(a(ssss): ports) ? Nothing Permanently set forward ports of zone to list of (port, protocol, toport, toaddr). See forward-port tag in firewalld.zone(5). setIcmpBlockInversion(b: flag) ? Nothing

Permanently set icmp block inversion flag of zone to flag. See

icmp-block-inversion tag in firewalld.zone(5).

setIcmpBlocks(as: icmptypes) ? Nothing

Permanently set list of icmp types blocked in zone to

icmptypes. See icmp-block tag in firewalld.zone(5).

setInterfaces(as: interfaces) ? Nothing

Permanently set list of interfaces bound to zone to interfaces.

See interface tag in firewalld.zone(5).

setMasquerade(b: masquerade) ? Nothing

Permanently set masquerading in zone to masquerade. See

masquerade tag in firewalld.zone(5).

setPorts(a(ss): ports) ? Nothing

Permanently set ports of zone to list of (port, protocol). See

port tag in firewalld.zone(5).

setProtocols(as: protocols) ? Nothing

Permanently set list of protocols used in zone to protocols.

See protocol tag in firewalld.zone(5).

setRichRules(as: rules) ? Nothing

Permanently set list of rich-language rules to rules. See rule

tag in firewalld.zone(5).

setServices(as: services) ? Nothing

Permanently set list of services used in zone to services. See

service tag in firewalld.zone(5).

setShort(s: short) ? Nothing

Permanently set name of zone to short. See short tag in

firewalld.zone(5).

setSourcePorts(a(ss): ports) ? Nothing

Permanently set source-ports of zone to list of (port,

protocol). See source-port tag in firewalld.zone(5).

setSources(as: sources) ? Nothing

Permanently set list of source addresses bound to zone to

sources. See source tag in firewalld.zone(5).

setTarget(s: target) ? Nothing

Permanently set target of zone to target. See target attribute

of zone tag in firewalld.zone(5). setVersion(s: version) ? Nothing Permanently set version of zone to version. See version attribute of zone tag in firewalld.zone(5). update((sssbsasa(ss)asba(ssss)asasasasa(ss)b): settings) ? Nothing This function is deprecated, use org.fedoraproject.FirewallD1.config.zone.Methods.update2 instead. update2(a{sv}: settings) ? Nothing Update settings of zone to settings. Settings are a dictionary indexed by keywords. For the type of each value see below. To zero a value pass an empty string or list. version (s): see version attribute of zone tag in firewalld.zone(5). name (s): see short tag in firewalld.zone(5). description (s): see description tag in firewalld.zone(5). target (s): see target attribute of zone tag in firewalld.zone(5). services (as): array of service names, see service tag in firewalld.zone(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.zone(5). icmp_blocks (as): array of icmp-blocks. See icmp-block tag in firewalld.zone(5). masquerade (b): see masquerade tag in firewalld.zone(5). forward ports (a(ssss)): array of (port, protocol, to-port, to-addr). See forward-port tag in firewalld.zone(5). interfaces (as): array of interfaces. See interface tag in

firewalld.zone(5).

sources (as): array of source addresses. See source tag in

firewalld.zone(5).

rules_str (as): array of rich-language rules. See rule tag in

firewalld.zone(5).

protocols (as): array of protocols, see protocol tag in

firewalld.zone(5).

source_ports (a(ss)): array of port and protocol pairs. See

source-port tag in firewalld.zone(5).

icmp_block_inversion (b): see icmp-block-inversion tag in

firewalld.zone(5).

forward (b): see forward tag in firewalld.zone(5).

Possible errors: INVALID_TYPE

Signals

Removed(s: name)

Emitted when zone with name has been removed.

Renamed(s: name)

Emitted when zone has been renamed to name.

Updated(s: name)

Emitted when zone with name has been updated.

Properties

```
builtin - b - (ro)
```

True if zone is build-in, false else.

default - b - (ro)

True if build-in zone has default settings. False if it has

been modified. Always False for not build-in zones.

filename - s - (ro)

Name (including .xml extension) of file where the configuration

is stored.

name - s - (ro)

Name of zone.

path - s - (ro)

Path to directory where the zone configuration is stored.

Should be either /usr/lib/firewalld/zones or

/etc/firewalld/zones.

org.fedoraproject.FirewallD1.config.policy

Interface for permanent policy configuration, see also

firewalld.policy(5).

Methods

getSettings() ? a{sv}

Return permanent settings of given policy. For getting runtime

settings see

org.fedoraproject.FirewallD1.policy.Methods.getPolicySettings.

Settings are a dictionary indexed by keywords. For possible

keywords see

org.fedoraproject.FirewallD1.config.Methods.addPolicy.

loadDefaults() ? Nothing

Load default settings for built-in policy.

Possible errors: NO_DEFAULTS

remove() ? Nothing

Remove not built-in policy.

Possible errors: BUILTIN_POLICY

rename(s: name) ? Nothing

Rename not built-in policy to name.

Possible errors: BUILTIN_POLICY

update(a{sv}: settings) ? Nothing

Update settings of policy to settings. Settings are a

dictionary indexed by keywords. For possible keywords see

org.fedoraproject.FirewallD1.config.Methods.addPolicy. To zero

a value pass an empty string or list.

Possible errors: INVALID_TYPE

Signals

Removed(s: name)

Emitted when policy with name has been removed.

Renamed(s: name)

Emitted when policy has been renamed to name.

Updated(s: name)

Emitted when policy with name has been updated.

Properties

builtin - b - (ro)

True if policy is build-in, false else.

```
default - b - (ro)
```

True if build-in policy has default settings. False if it has

been modified. Always False for not build-in policies.

filename - s - (ro)

Name (including .xml extension) of file where the configuration

is stored.

name - s - (ro)

Name of policy.

path - s - (ro)

Path to directory where the policy configuration is stored.

Should be either /usr/lib/firewalld/policies or

/etc/firewalld/policies.

org.fedoraproject.FirewallD1.config.service

Interface for permanent service configuration, see also

firewalld.service(5).

Methods

addModule(s: module) ? Nothing

This method is deprecated. Please use "helpers" in the

update2() method.

addPort(s: port, s: protocol) ? Nothing

Permanently add (port, protocol) to list of ports in service.

See port tag in firewalld.service(5).

Possible errors: ALREADY_ENABLED

addProtocol(s: protocol) ? Nothing

Permanently add protocol into zone. The protocol can be any

protocol supported by the system. Please have a look at

/etc/protocols for supported protocols. See protocol tag in

firewalld.service(5).

Possible errors: INVALID_PROTOCOL, ALREADY_ENABLED

addSourcePort(s: port, s: protocol) ? Nothing

Permanently add (port, protocol) to list of source ports in

service. See source-port tag in firewalld.service(5).

Possible errors: ALREADY_ENABLED

getDescription() ? s

Get description of service. See description tag in

firewalld.service(5).

getDestination(s: family) ? s

Get destination for IP family being either 'ipv4' or 'ipv6'.

See destination tag in firewalld.service(5).

Possible errors: ALREADY_ENABLED

getDestinations() ? a{ss}

Get list of destinations. Return value is a dictionary of {IP

family : IP address} where 'IP family' key can be either 'ipv4'

or 'ipv6'. See destination tag in firewalld.service(5).

getModules() ? as

This method is deprecated. Please use "helpers" in the

getSettings2() method.

getPorts() ? a(ss)

Get list of (port, protocol) defined in service. See port tag

in firewalld.service(5).

getProtocols() ? as

Return array of protocols (s) defined in service. See protocol

tag in firewalld.service(5).

getSettings() ? (sssa(ss)asa{ss}asa(ss))

This function is deprecated, use

org.fedoraproject.FirewallD1.config.service.Methods.getSettings2

instead.

getSettings2(s: service) ? s{sv}

Return runtime settings of given service. For getting runtime

settings see

org.fedoraproject.FirewallD1.Methods.getServiceSettings2.

Settings are a dictionary indexed by keywords. For the type of

each value see below. If the value is empty it may be omitted.

version (s): see version attribute of service tag in

firewalld.service(5).

description (s): see description tag in firewalld.service(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.service(5). module names (as): array of kernel netfilter helpers, see module tag in firewalld.service(5). destinations (a{ss}): dictionary of {IP family : IP address} where 'IP family' key can be either 'ipv4' or 'ipv6'. See destination tag in firewalld.service(5). protocols (as): array of protocols, see protocol tag in firewalld.service(5). source_ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.service(5). includes (as): array of service includes, see include tag in firewalld.service(5). helpers (as): array of service helpers, see helper tag in firewalld.service(5). getShort() ? s Get name of service. See short tag in firewalld.service(5). getSourcePorts() ? a(ss) Get list of (port, protocol) defined in service. See source-port tag in firewalld.service(5). getVersion() ? s Get version of service. See version attribute of service tag in firewalld.service(5). loadDefaults() ? Nothing Load default settings for built-in service. Possible errors: NO_DEFAULTS queryDestination(s: family, s: address) ? b Return whether a destination is in dictionary of destinations of this service. destination is in format: (IP family, IP address) where IP family can be either 'ipv4' or 'ipv6'. See destination tag in firewalld.service(5). queryModule(s: module) ? b

This method is deprecated. Please use "helpers" in the

getSettings2() method.

queryPort(s: port, s: protocol) ? b

Return whether (port, protocol) is in list of ports in service.

See port tag in firewalld.service(5).

queryProtocol(s: protocol) ? b

Return whether protocol is in list of protocols in service. See

protocol tag in firewalld.service(5).

querySourcePort(s: port, s: protocol) ? b

Return whether (port, protocol) is in list of source ports in

service. See source-port tag in firewalld.service(5).

remove() ? Nothing

Remove not built-in service.

Possible errors: BUILTIN_SERVICE

removeDestination(s: family) ? Nothing

Permanently remove a destination with family ('ipv4' or 'ipv6')

from service. See destination tag in firewalld.service(5).

Possible errors: NOT_ENABLED

removeModule(s: module) ? Nothing

This method is deprecated. Please use "helpers" in the

update2() method.

removePort(s: port, s: protocol) ? Nothing

Permanently remove (port, protocol) from list of ports in

service. See port tag in firewalld.service(5).

Possible errors: NOT_ENABLED

removeProtocol(s: protocol) ? Nothing

Permanently remove protocol from list of protocols in service.

See protocol tag in firewalld.service(5).

Possible errors: NOT_ENABLED

removeSourcePort(s: port, s: protocol) ? Nothing

Permanently remove (port, protocol) from list of source ports

in service. See source-port tag in firewalld.service(5).

Possible errors: NOT_ENABLED

rename(s: name) ? Nothing

Rename not built-in service to name.

Possible errors: BUILTIN_SERVICE

setDescription(s: description) ? Nothing

Permanently set description of service to description. See

description tag in firewalld.service(5).

setDestination(s: family, s: address) ? Nothing

Permanently set a destination address. destination is in

format: (IP family, IP address) where IP family can be either

'ipv4' or 'ipv6'. See destination tag in firewalld.service(5).

Possible errors: ALREADY_ENABLED

setDestinations(a{ss}: destinations) ? Nothing

Permanently set destinations of service to destinations, which

is a dictionary of {IP family : IP address} where 'IP family'

key can be either 'ipv4' or 'ipv6'. See destination tag in

firewalld.service(5).

setModules(as: modules) ? Nothing

This method is deprecated. Please use "helpers" in the

update2() method.

setPorts(a(ss): ports) ? Nothing

Permanently set ports of service to list of (port, protocol).

See port tag in firewalld.service(5).

setProtocols(as: protocols) ? Nothing

Permanently set protocols of service to list of protocols. See

protocol tag in firewalld.service(5).

setShort(s: short) ? Nothing

Permanently set name of service to short. See short tag in

firewalld.service(5).

setSourcePorts(a(ss): ports) ? Nothing

Permanently set source-ports of service to list of (port,

protocol). See source-port tag in firewalld.service(5).

setVersion(s: version) ? Nothing

Permanently set version of service to version. See version

attribute of service tag in firewalld.service(5).

update((sssa(ss)asa{ss}asa(ss)): settings) ? Nothing

This function is deprecated, use

org.fedoraproject.FirewallD1.config.service.Methods.update2

instead.

update2a{sv}: settings) ? Nothing

Update settings of service to settings. Settings are a dictionary indexed by keywords. For the type of each value see below. To zero a value pass an empty string or list. version (s): see version attribute of service tag in firewalld.service(5). name (s): see short tag in firewalld.service(5). description (s): see description tag in firewalld.service(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.service(5). module names (as): array of kernel netfilter helpers, see module tag in firewalld.service(5). destinations (a{ss}): dictionary of {IP family : IP address} where 'IP family' key can be either 'ipv4' or 'ipv6'. See destination tag in firewalld.service(5). protocols (as): array of protocols, see protocol tag in firewalld.service(5). source_ports (a(ss)): array of port and protocol pairs. See source-port tag in firewalld.service(5). includes (as): array of service includes, see include tag in firewalld.service(5). helpers (as): array of service helpers, see helper tag in firewalld.service(5). Possible errors: INVALID_TYPE Signals

Removed(s: name)

Emitted when service with name has been removed.

Renamed(s: name)

Emitted when service has been renamed to name.

Updated(s: name)

Emitted when service with name has been updated.

Properties

builtin - b - (ro)

True if service is build-in, false else.

default - b - (ro)

True if build-in service has default settings. False if it has

been modified. Always False for not build-in services.

filename - s - (ro)

Name (including .xml extension) of file where the configuration

is stored.

name - s - (ro)

Name of service.

path - s - (ro)

Path to directory where the configuration is stored. Should be

either /usr/lib/firewalld/services or /etc/firewalld/services.

org.fedoraproject.FirewallD1.config.helper

Interface for permanent helper configuration, see also

firewalld.helper(5).

Methods

addPort(s: port, s: protocol) ? Nothing

Permanently add (port, protocol) to list of ports in helper.

See port tag in firewalld.helper(5).

Possible errors: ALREADY_ENABLED

getDescription() ? s

Get description of helper. See description tag in

firewalld.helper(5).

getFamily() ? s

Get family being 'ipv4', 'ipv6' or empty for both. See family

tag in firewalld.helper(5).

getModule() ? s

Get modules (netfilter kernel helpers) used in helper. See

module tag in firewalld.helper(5).

getPorts() ? a(ss)

Get list of (port, protocol) defined in helper. See port tag in

firewalld.helper(5).

getSettings() ? (sssssa(ss))

Return permanent settings of a helper. For getting runtime settings see org.fedoraproject.FirewallD1.Methods.getHelperSettings. Settings are in format: version, name, description, family, module, array of ports (port, protocol). version (s): see version attribute of helper tag in firewalld.helper(5). name (s): see short tag in firewalld.helper(5). description (s): see description tag in firewalld.helper(5). family (s): see family tag in firewalld.helper(5). module (s): see module tag in firewalld.helper(5). ports (a(ss)): array of port and protocol pairs. See port tag in firewalld.helper(5). getShort() ? s Get name of helper. See short tag in firewalld.helper(5). getVersion() ? s Get version of helper. See version attribute of helper tag in firewalld.helper(5). loadDefaults() ? Nothing Load default settings for built-in helper. Possible errors: NO_DEFAULTS queryFamily(s: module) ? b Return whether family is set for helper. See family tag in firewalld.helper(5). queryModule(s: module) ? b Return whether module (netfilter kernel helpers) is used in helper. See module tag in firewalld.helper(5). queryPort(s: port, s: protocol) ? b

Return whether (port, protocol) is in list of ports in helper.

See port tag in firewalld.helper(5).

remove() ? Nothing

Remove not built-in helper.

Possible errors: BUILTIN_HELPER

removePort(s: port, s: protocol) ? Nothing

Permanently remove (port, protocol) from list of ports in

helper. See port tag in firewalld.helper(5).

Possible errors: NOT_ENABLED

rename(s: name) ? Nothing

Rename not built-in helper to name.

Possible errors: BUILTIN_HELPER

setDescription(s: description) ? Nothing

Permanently set description of helper to description. See

description tag in firewalld.helper(5).

setFamily(s: family) ? Nothing

Permanently set family of helper to family. See family tag in

firewalld.helper(5).

setModule(s: module) ? Nothing

Permanently set module of helper to description. See module tag

in firewalld.helper(5).

setPorts(a(ss): ports) ? Nothing

Permanently set ports of helper to list of (port, protocol).

See port tag in firewalld.helper(5).

setShort(s: short) ? Nothing

Permanently set name of helper to short. See short tag in

firewalld.helper(5).

setVersion(s: version) ? Nothing

Permanently set version of helper to version. See version

attribute of helper tag in firewalld.helper(5).

update((ssssa(ss)): settings) ? Nothing

Update settings of helper to settings. Settings are in format:

version, name, description, family, module and array of ports.

version (s): see version attribute of helper tag in

firewalld.helper(5).

name (s): see short tag in firewalld.helper(5).

description (s): see description tag in firewalld.helper(5).

family (s): see family tag in firewalld.helper(5).

module (s): see module tag in firewalld.helper(5).

ports (a(ss)): array of port and protocol pairs. See port tag

in firewalld.helper(5).

Possible errors: INVALID_HELPER

Signals

Removed(s: name)

Emitted when helper with name has been removed.

Renamed(s: name)

Emitted when helper has been renamed to name.

Updated(s: name)

Emitted when helper with name has been updated.

Properties

builtin - b - (ro)

True if helper is build-in, false else.

```
default - b - (ro)
```

True if build-in helper has default settings. False if it has

been modified. Always False for not build-in helpers.

filename - s - (ro)

Name (including .xml extension) of file where the configuration

is stored.

name - s - (ro)

Name of helper.

path - s - (ro)

Path to directory where the configuration is stored. Should be

either /usr/lib/firewalld/helpers or /etc/firewalld/helpers.

org.fedoraproject.FirewallD1.config.icmptype

Interface for permanent icmp type configuration, see also

firewalld.icmptype(5).

Methods

addDestination(s: destination) ? Nothing Permanently add a destination ('ipv4' or 'ipv6') to list of destinations of this icmp type. See destination tag in firewalld.icmptype(5). Possible errors: ALREADY_ENABLED getDescription() ? s Get description of icmp type. See description tag in firewalld.icmptype(5). getDestinations() ? as Get list of destinations. See destination tag in firewalld.icmptype(5). getSettings() ? (sssas) Return permanent settings of icmp type. For getting runtime settings see org.fedoraproject.FirewallD1.Methods.getIcmpTypeSettings. Settings are in format: version, name, description, array of destinations. version (s): see version attribute of icmptype tag in firewalld.icmptype(5). name (s): see short tag in firewalld.icmptype(5). description (s): see description tag in firewalld.icmptype(5). destinations (as): array, either empty or containing strings 'ipv4' and/or 'ipv6', see destination tag in firewalld.icmptype(5). getShort() ? s Get name of icmp type. See short tag in firewalld.icmptype(5). getVersion() ? s Get version of icmp type. See version attribute of icmptype tag in firewalld.icmptype(5). loadDefaults() ? Nothing Load default settings for built-in icmp type. Possible errors: NO_DEFAULTS

queryDestination(s: destination) ? b Return whether a destination ('ipv4' or 'ipv6') is in list of destinations of this icmp type. See destination tag in firewalld.icmptype(5). remove() ? Nothing Remove not built-in icmp type. Possible errors: BUILTIN_ICMPTYPE removeDestination(s: destination) ? Nothing Permanently remove a destination ('ipv4' or 'ipv6') from list of destinations of this icmp type. See destination tag in firewalld.icmptype(5). Possible errors: NOT_ENABLED rename(s: name) ? Nothing Rename not built-in icmp type to name. Possible errors: BUILTIN_ICMPTYPE setDescription(s: description) ? Nothing Permanently set description of icmp type to description. See description tag in firewalld.icmptype(5). setDestinations(as: destinations) ? Nothing Permanently set destinations of icmp type to destinations, which is array, either empty or containing strings 'ipv4' and/or 'ipv6'. See destination tag in firewalld.icmptype(5). setShort(s: short) ? Nothing Permanently set name of icmp type to short. See short tag in firewalld.icmptype(5). setVersion(s: version) ? Nothing Permanently set version of icmp type to version. See version attribute of icmptype tag in firewalld.icmptype(5). update((sssas): settings) ? Nothing

Update permanent settings of icmp type to settings. Settings

are in format: version, name, description, array of

destinations.

version (s): see version attribute of icmptype tag in

firewalld.icmptype(5).

name (s): see short tag in firewalld.icmptype(5).

description (s): see description tag in firewalld.icmptype(5).

destinations (as): array, either empty or containing strings

'ipv4' and/or 'ipv6', see destination tag in

firewalld.icmptype(5).

Signals

```
Removed(s: name)
```

Emitted when icmp type with name has been removed.

Renamed(s: name)

Emitted when icmp type has been renamed to name.

Updated(s: name)

Emitted when icmp type with name has been updated.

Properties

```
builtin - b - (ro)
```

True if icmptype is build-in, false else.

default - b - (ro)

True if build-in icmp type has default settings. False if it

has been modified. Always False for not build-in zones.

filename - s - (ro)

Name (including .xml extension) of file where the configuration

is stored.

name - s - (ro)

Name of icmp type.

path - s - (ro)

Path to directory where the icmp type configuration is stored.

Should be either /usr/lib/firewalld/icmptypes or

/etc/firewalld/icmptypes.

SEE ALSO

firewall-applet(1), firewalld(1), firewall-cmd(1), firewall-config(1),

firewalld.conf(5), firewalld.direct(5), firewalld.dbus(5),

firewalld.icmptype(5), firewalld.lockdown-whitelist(5), firewall-

offline-cmd(1), firewalld.richlanguage(5), firewalld.service(5),

firewalld.zone(5), firewalld.zones(5), firewalld.policy(5),

firewalld.policies(5), firewalld.ipset(5), firewalld.helper(5)

NOTES

firewalld home page:

http://firewalld.org

More documentation with examples:

http://fedoraproject.org/wiki/FirewallD

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