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 - logging firewall screen spy-blocking
 - logging firewall screen suspicious-packets
 - show ip firewall screens counters

ip firewall screen dos-defense icmp-threshold

ICMP flood

(no) ICMP flood .

```
ip firewall screen dos-defense icmp-threshold <NUM>
no ip firewall screen dos-defense icmp-threshold
```

<NUM> – icmp- [1..10000]

```
esr(config)# ip firewall screen dos-defense icmp-threshold 2000
```

ip firewall screen dos-defense land

land-. source destination ip, SYN TCP.

(no) land-.

```
[no] ip firewall screen dos-defense land
```

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CONFIG

```
esr(config)# ip firewall screen dos-defense land
```

ip firewall screen dos-defense limit-session-destination

IP- , (DoS-: SYN flood, UDP flood, ICMP flood, ..). , , DoS-.

(no) .

```
ip firewall screen dos-defense limit-session-destination <NUM>
```

```
no ip firewall screen dos-defense limit-session-destination
```

<NUM> – ip- [1..10000].

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CONFIG

```
esr(config)# ip firewall screen dos-defense limit-session-destination 1000
```

ip firewall screen dos-defense limit-session-source

IP- , (DoS-: SYN flood, UDP flood, ICMP flood, ..). , , DoS-.

(no) .

```
ip firewall screen dos-defense limit-session-source <NUM>
no ip firewall screen dos-defense limit-session-source

<NUM>- ip- [1..10000].
```

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CONFIG

```
esr(config)# ip firewall screen dos-defense limit-session-source 1000
```

ip firewall screen dos-defense syn-flood

SYN flood . TCP SYN .

(no) SYN flood .

```
ip firewall screen dos-defense syn-flood <NUM> [src-dst]
no ip firewall screen dos-defense syn-flood
```

<NUM>- TCP- SYN [1..10000].

src-dst- TCP- SYN .

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CONFIG

```
esr(config)# ip firewall screen dos-defense syn-flood 100 src-dsr
```

ip firewall screen dos-defense udp-threshold

UDP flood . UDP .

(no) UDP flood.

```
ip firewall screen dos-defense udp-threshold <NUM>
no ip firewall screen dos-defense udp-threshold
```

<NUM> – UDP- [1..10000].

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CONFIG

```
esr(config)# ip firewall screen dos-defense udp-threshold
```

ip firewall screen dos-defense winnuke

winnuke-, TCP- URG 139 .

(no) winnuke-.

[no] ip firewall screen dos-defense winnuke

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CONFIG

```
esr(config)# ip firewall screen dos-defense winnuke
```

ip firewall screen spy-blocking fin-no-ack

TCP- FIN ACK.

(no) TCP- FIN ACK.

[no] ip firewall screen spy-blocking fin-no-ack

CONFIG

```
esr(config)# ip firewall screen spy-blocking fin-no-ack
```

ip firewall screen spy-blocking icmp-type destination-unreachable

ICMP- 3 (destination-unreachable), , .

(no) ICMP- 3 .

```
[no] ip firewall screen spy-blocking icmp-type destination-unreachable
```

CONFIG

```
esr(config)# ip firewall screen spy-blocking icmp-type destination-unreachable
```

ip firewall screen spy-blocking icmp-type echo-request

ICMP 8 (echo-request), , .

(no) ICMP- 8 .

```
[no] ip firewall screen spy-blocking icmp-type echo-request
```

CONFIG

```
esr(config)# ip firewall screen spy-blocking icmp-type echo-request
```

ip firewall screen spy-blocking icmp-type reserved

ICMP- 2 7 (reserved), , .

(no) ICMP- 2 7 .

```
[no] ip firewall screen spy-blocking icmp-type reserved
```

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CONFIG

```
esr(config)# ip firewall screen spy-blocking icmp-type reserved
```

ip firewall screen spy-blocking icmp-type source-quench

ICMP- 4 (source quench), , .

(no) ICMP- 4 .

```
[no] ip firewall screen spy-blocking icmp-type source-quench
```

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CONFIG

```
esr(config)# ip firewall screen spy-blocking icmp-type source-quench
```

ip firewall screen spy-blocking icmp-type time-exceeded

ICMP- 11 (time exceeded), , .

```
(no) ICMP- 11 .
```

```
[no] ip firewall screen spy-blocking icmp-type time-exceeded
```

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CONFIG

```
esr(config)# ip firewall screen spy-blocking icmp-type time-exceeded
```

ip firewall screen spy-blocking ip-sweep

```
IP-sweep . , 10 ICMP- , 10 , 11 .
```

```
(no) ip-sweep .
```

```
ip firewall screen spy-blocking ip-sweep <THRESHOLD> [ <TIME> ]
```

```
no ip firewall screen spy-blocking ip-sweep
```

```
<THRESHOLD> - ip sweep , [1..10000].
```

```
<TIME> - [1..1000000].
```

```
, 10000.
```

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CONFIG

```
esr(config)# ip firewall screen spy-blocking ip-sweep 1000
```

ip firewall screen spy-blocking port-scan

```
port scan . <THRESHOLD> TCP- SYN TCP- <THRESHOLD> UDP- UDP-, port scan (<TIME>).
```

```
(no) port scan .
```

```
ip firewall screen spy-blocking port-scan <THRESHOLD> [ <TIME> ]
no ip firewall screen spy-blocking port-scan
```

<THRESHOLD> – port scan , [1..10000].

<TIME> – [1..1000000].

, 10000.

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CONFIG

```
esr(config)# ip firewall screen spy-blocking port-scan 100 1000
```

ip firewall screen spy-blocking spoofing

```
IP spoofing . ., 10.0.0.1/24 Gi1/0/1, Gi1/0/2, .
(no) ip spoofing .
```

[no] ip firewall screen spy-blocking spoofing

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CONFIG

```
esr(config)# ip firewall screen spy-blocking spoofing
```

ip firewall screen spy-blocking syn-fin

```
TCP-, SYN FIN.
(no) TCP-, SYN FIN.
```

[no] ip firewall screen spy-blocking syn-fin

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CONFIG

```
esr(config)# ip firewall screen spy-blocking syn-fin
```

ip firewall screen spy-blocking tcp-all-flags

TCP-, : FIN, PSH, URG, XMAS.

(no) TCP-, : FIN, PSH, URG.

```
[no] ip firewall screen spy-blocking tcp-all-flag
```

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CONFIG

```
esr(config)# ip firewall screen spy-blocking tcp-all-flag
```

ip firewall screen spy-blocking tcp-no-flag

TCP-, flags.

(no) TCP-, flags.

```
[no] ip firewall screen spy-blocking tcp-no-flag
```

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CONFIG

```
esr(config)# ip firewall screen spy-blocking tcp-no-flag
```

ip firewall screen suspicious-packets icmp-fragment

ICMP-.

(no) ICMP-.

```
[no] ip firewall screen suspicious-packets icmp-fragment
```

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CONFIG

```
esr(config)# ip firewall screen suspicious-packets icmp-fragment
```

ip firewall screen suspicious-packets ip-fragment

IP-.

(no) .

```
[no] ip firewall screen suspicious-packets ip-fragment
```

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CONFIG

```
esr(config)# ip firewall screen suspicious-packets ip-fragment
```

ip firewall screen suspicious-packets large-icmp

ICMP- 1024 .

(no) ICMP- 1024 .

```
[no] ip firewall screen suspicious-packets large-icmp
```

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CONFIG

```
esr(config)# ip firewall screen suspicious-packets large-icmp
```

ip firewall screen suspicious-packets syn-fragment

TCP-, SYN.

(no) TCP-, SYN.

```
[no] ip firewall screen suspicious-packets syn-fragment
```

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CONFIG

```
esr(config)# ip firewall screen suspicious-packets syn-fragment
```

ip firewall screen suspicious-packets udp-fragment

UDP-.

(no) UDP-.

[no] ip firewall screen suspicious-packets udp-fragment

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CONFIG

```
esr(config)# ip firewall screen suspicious-packets udp-fragment
```

ip firewall screen suspicious-packets unknown-protocols

, ID IP 137 .

(no) , ID IP 137 .

[no] ip firewall screen suspicious-packets unknown-protocols

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CONFIG

```
esr(config)# ip firewall screen suspicious-packets unknown-protocols
```

ip firewall logging interval

(SNMP, syslog CLI) . , . , .

(no) .

ip firewall logging interval <NUM>

```
no ip firewall logging interval
```

```
<NUM> - [30 .. 2147483647]
```

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CONFIG

```
esr(config)# ip firewall logging interval 60
```

logging firewall screen detailed

CLI.

, , , IP- IP- , MAC- , .

(no) .

```
[no] logging firewall screen detailed
```

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CONFIG

```
esr(config)# logging firewall screen detailed
```

logging firewall screen dos-defense

DoS- CLI, syslog SNMP. DoS .

(no) DoS-.

```
[no] logging firewall screen dos-defense <ATACK_TYPE>
```

```
<ATACK_TYPE> - DoS-, :
```

- icmp-threshold;

- land;
- limit-session-destination;
- limit-session-source;
- syn-flood;
- udp-threshold;
- winnuke.

DoS-

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CONFIG

```
esr(config)# logging firewall screen dos-defense land
```

logging firewall screen spy-blocking

CLI, syslog, SNMP.

(no)

```
[no] logging firewall screen spy-blocking { <ATTACK_TYPE> | icmp-type <ICMP_TYPE> }
```

<ATTACK_TYPE> – , :

- fin-no-ack;
- ip-sweep;
- port-scan;
- spoofing;
- syn-fin;
- tcp-all-flag;
- tcp-no-flag.

<ICMP_TYPE> – icmp, :

- destination-unreachable;
- echo-request;
- reserved;
- source-quench;
- time-exceeded.

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CONFIG

```
esr(config)# logging firewall screen spy-blocking icmp-type echo-request
```

logging firewall screen suspicious-packets

CLI, syslog SNMP.

(no)

```
[no] logging firewall screen suspicious-packets <PACKET_TYPE>
```

<PACKET_TYPE> - , :

- icmp-fragment;
- ip-fragment;
- large-icmp;
- syn-fragment;
- udp-fragment;
- unknown-protocols.

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CONFIG

```
esr(config)# logging firewall screen suspicious-packets icmp-fragment
```

show ip firewall screens counters

```
show ip firewall screens counters
```

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ROOT

```
esr# show ip firewall screens counters
DDoS:
  Destination limit screen: --
  Source limit screen: --
  ICMP threshold screen: 1
  UDP threshold screen: --
  SYN flood screen: 0
  Land attack screen: 1
  Winnuke attack screen: --
Suspicious packets:
  ICMP fragmented screen: --
  UDP fragmented screen: --
  Large ICMP screen: 4
  Fragmented SYN screen: --
  Unknown protocol screen: --
  Fragmented IP screen: --
Spying:
  Port scanning screen: --
  IP sweep screen: --
  SYN-FIN screen: --
  TCP all flags screen: --
  FIN no ACK screen: --
  TCP no flags screen: --
  Spoofing screen: --
ICMP types:
  ICMP reserved screen: --
  ICMP quench screen: --
  ICMP echo request screen: --
  ICMP time exceeded screen: --
  ICMP unreachable screen: --
```