

# IP SLA ICMP-ECHO

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- 
- 
- cli ESR
- SLA SNMP
- 
- VRRP source ip
- SLA

ESR SLA, , (responder - agent). SLA. 1.11.2 SLA ICMP-ECHO, ip .

ICMP , SLA. :

- "Success" - ICMP .
- "Fail" - ICMP .

, ICMP , SLA.

:

```
ip sla
```

:

```
ip sla test < >
icmp-echo <IP > source-ip <IP > num-packets < > interval < , >
frequency < , >
packet-size < , >
ttl < >
timeout < , >
vrf < VRF>
enable
exit
```

:

ip sla test <Set ip sla test number>

<Set ip sla test number> - , [1-10000].

icmp-echo <IP > source-ip <IP > num-packets [<Number of packets>] interval [<Interval in milliseconds>]

<IP > - IP , .

<IP > - IP , .

num-packets - , [1-6000], 100. ICMP-ECHO 3.

interval - , [1-255], 20 .

vrf - VRF, VRF.

frequency - , [1-604800], 10.

packet-size - , [64-10000], 74 .

ttl - TTL , [0-255], 64.

timeout - , [1-4294967295], 3000 .

enable - SLA .

exit -

:

ip sla schedule < > life <{ <LIFE-TIME> | forever }> start-time <{ <MONTH> <DAY> <TIME> | now }>

< > - SLA , [1..10000]

<LIFE-TIME> - , [1..2147483647] . forever - .

<TIME> - , HH:MM:SS, :

- HH - , [0..23];
- MM - , [0..59];
- SS - , [0..59].

<MONTH> - , [ January / February / March / April / May / June / July / August / September / October / November / December ];

<DAY> - , [1..31];

now - .

! , , .

```
ip sla
ip sla test 1
  icmp-echo 192.168.250.1 source-ip 192.168.200.49 num-packets 3
  enable
exit
ip sla test 12
  vrf br12
  icmp-echo 192.168.48.11 source-ip 198.19.0.2 num-packets 3
  enable
exit

ip sla schedule 1 life forever start-time now
ip sla schedule 12 life forever start-time now
```

## cli ESR

show ip sla test configuration [< >] vrf [< VRF>]

<>- , , , VRF.

< VRF> - VRF, , VRF, . VRF.

```
esr# show ip sla test configuration
Test number:      1
State:            Enabled
Control phase:    Disabled
Authentication:   Disabled
Destination address: 192.168.250.1
Destination port:  --
Frequency:        10
Interval:         20
Number of packets: 3
Packet size:      74
Source address:   192.168.200.49
Source interface: --
Source port:      --
DSCP:             0
COS:              0
Timeout:          3000
Number of history records: 10

esr# show ip sla test configuration 12 vrf br12
Test number:      12
State:            Enabled
Control phase:    Disabled
Authentication:   Disabled
Destination address: 192.168.48.11
Destination port:  --
Frequency:        10
Interval:         20
Number of packets: 3
Packet size:      74
Source address:   198.19.0.2
Source interface: --
Source port:      --
DSCP:             0
COS:              0
Timeout:          3000
Number of history records: 10
```

show ip sla test statistics [< >] vrf [< VRF>] - :

```
esr# show ip sla test statistics
```

Number	LC	LCR	LCF	TC	OADF	OADV	OADR	OADR	TAD
DUP	OSF	OSR							
1	0	0	0	3	0	0	0	0	0
0	0	0							

```
esr# show ip sla test statistics vrf br12
```

Number	LC	LCR	LCF	TC	OADF	OADV	OADR	OADR	TAD
DUP	OSF	OSR							
12	0	0	0	3	0	0	0	0	0
0	0								

:

```
esr# show ip sla test statistics 1
```

Test number:	1
Test status:	Successful
Transmitted packets:	3
Lost packets:	0 (0%)
Lost packets in forward direction:	0 (0%)
Lost packets in reverse direction:	0 (0%)
One-way delay forward min/avg/max:	0/0/0 milliseconds
One-way delay reverse min/avg/max:	0/0/0 milliseconds
One-way jitter forward min/avg/max:	0/0/0 milliseconds
One-way jitter reverse min/avg/max:	0/0/0 milliseconds
Two-way delay min/avg/max:	0/0/0 milliseconds
Duplicate packets:	0
Out of sequence packets in forward direction:	0
Out of sequence packets in reverse direction:	0

```
esr# show ip sla test statistics 12 vrf br12
```

Test number:	12
Test status:	Fail
Transmitted packets:	3
Lost packets:	0 (0%)
Lost packets in forward direction:	0 (0%)
Lost packets in reverse direction:	0 (0%)
One-way delay forward min/avg/max:	0/0/0 milliseconds
One-way delay reverse min/avg/max:	0/0/0 milliseconds
One-way jitter forward min/avg/max:	0/0/0 milliseconds
One-way jitter reverse min/avg/max:	0/0/0 milliseconds
Two-way delay min/avg/max:	0/0/1 milliseconds
Duplicate packets:	0
Out of sequence packets in forward direction:	0
Out of sequence packets in reverse direction:	0

## SLA SNMP

SNMP SNMP ESR:

```
snmp-server
snmp-server system-shutdown
snmp-server community "public11" ro
snmp-server community "private1" rw

snmp-server host 100.123.0.2
exit
```

, SLA ( Success Fail ) :

```
ip sla logging -          SLA

snmp-server enable traps syslog -    syslog      SNMP .
      syslog.
```

#### [ELTEX-ESR-IPSLA-MIB.mib](#) - MIB ESR SLA

```
snmpwalk -v2c -c public11 198.18.128.2 -m /tftpboot/ELTEX-ESR-IPSLA-MIB.mib ELTEX-ESR-IPSLA-MIB::
eltEsriPslaStatTestStatus.1
ELTEX-ESR-IPSLA-MIB::eltEsriPslaStatTestStatus.1 = INTEGER: successful(2)

snmpwalk -v2c -c public11 198.18.128.2 -m /tftpboot/ELTEX-ESR-IPSLA-MIB.mib ELTEX-ESR-IPSLA-MIB::
eltEsriPslaStatTestStatus.12
ELTEX-ESR-IPSLA-MIB::eltEsriPslaStatTestStatus.1 = INTEGER: fail(1)
```

## VRRP source ip

VRRP source ip SLA, , VRRP backup fail ,.. VRRP . VRRP master icmp, .

## SLA

```
snmp-server
snmp-server system-shutdown
snmp-server community "public11" ro
snmp-server community "private1" rw

snmp-server host 100.123.0.2
exit

snmp-server enable traps syslog

ip sla

ip sla logging

ip sla test 1
  icmp-echo 192.168.250.1 source-ip 192.168.200.49 num-packets 3
  frequency 90
  packet-size 1500
  ttl
  timeout 500
  enable
exit
ip sla test 12
  vrf br12
  icmp-echo 192.168.48.11 source-ip 198.19.0.2 num-packets 3
  frequency 90
  packet-size 1400
  ttl
  timeout 1000
  enable
exit

ip sla schedule 1 life forever start-time now
ip sla schedule 12 life forever start-time now
```