

# BFD

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## **bfd-enable**

BFD- BGP-.

(no) BFD-.

```
[no] bfd-enable
```

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CONFIG-BGP-GROUP

CONFIG-BGP-VRF-GROUP

CONFIG-BGP-NEIGHBOR

CONFIG-BGP-VRF-NEIGHBOR

```
esr(config-bgp-neighbor)# bfd-enable
```

## **ip bfd idle-tx-interval**

, BFD- . , BFD- BFD.

(no) .

```
ip bfd idle-tx-interval <TIMEOUT>
```

```
no ip bfd idle-tx-interval
```

<TIMEOUT> -, BFD-, :

- [200..65535] ESR-1000/1200/1500/1511/1700/3100;
- [300..65535] ESR-10/12V/12VF/14VF/20/21/100/200.

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CONFIG

CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-GRE

CONFIG-IP4IP4

```
esr(config)# ip bfd idle-tx-interval 4000
```

## ip bfd log-adjacency-changes

BFD-.

(no) BFD-.

ip bfd log-adjacency-changes

no ip bfd log-adjacency-changes

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CONFIG

```
esr(config)# ip bfd log-adjacency-changes
```

## ip bfd min-rx-interval

, BFD- .

(no) .

```
ip bfd min-rx-interval <TIMEOUT>
no ip bfd min-rx-interval
```

<TIMEOUT>—, BFD-, :

- [200..65535] ESR-1000/1200/1500/1511/1700/3100;
- [300..65535] ESR-10/12V/12VF/14VF/20/21/100/200.

300 ESR-10/12V/12VF/14VF/20/21/100/200

200 ESR-1000/1200/1500/1511/1700/3100

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CONFIG

CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-GRE

CONFIG-IP4IP4

```
esr(config)# ip bfd min-rx-interval 1000
```

## ip bfd min-tx-interval

, BFD . BFD-, [ip bfd idle-tx-interval](#).

(no) .

```
ip bfd min-tx-interval <TIMEOUT>
```

```
no ip bfd min-tx-interval
```

<TIMEOUT>—, BFD-, :

- [200..65535] ESR-1000/1200/1500/1511/1700/3100;
- [300..65535] ESR-10/12V/12VF/14VF/20/21/100/200.

300 ESR-10/12V/12VF/14VF/20/21/100/200

200 ESR-1000/1200/1500/1511/1700/3100

```

CONFIG
CONFIG-GI
CONFIG-TE
CONFIG-SUBIF
CONFIG-QINQ-IF
CONFIG-PORT-CHANNEL
CONFIG-BRIDGE
CONFIG-GRE
CONFIG-IP4IP4

```

```
esr(config)# ip bfd min-tx-interval 1000
```

## ip bfd multiplier

, BFD- . tx/rx .

(no) .

```

ip bfd multiplier <COUNT>
no ip multiplier

```

<COUNT> – , , [1..100].

```

CONFIG
CONFIG-GI
CONFIG-TE
CONFIG-SUBIF
CONFIG-QINQ-IF
CONFIG-PORT-CHANNEL
CONFIG-BRIDGE
CONFIG-GRE
CONFIG-IP4IP4

```

```
esr(config)# ip bfd multiplier 10
```

## ip bfd neighbor

BFD IP-. next-hop ( bfd ip route. . [ip route](#))

(no) BFD IP-.

```
ip bfd neighbor <ADDR> [ { interface <IF> | tunnel <TUN> } ] [ local-address <ADDR> [ multihop ] ] [ vrf <VRF> ]
no ip bfd neighbor <ADDR> [vrf <VRF>]
```

<ADDR> – IP-, AAA.BBB.CCC.DDD, [0..255];

<IF> – , , ;

<TUN> – , , ;

<VRF> – VRF, 31;

multihop – TTL=255, BFD .

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CONFIG

```
esr(config)# ip bfd neighbor 192.168.0.2
```

## ip bfd passive

BFD- , BFD- , BFD-.

(no) .

[no] ip bfd passive

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-GRE

CONFIG-IP4IP4

```
esr(config)# ip bfd passive
```

## **ip ospf bfd-enable**

BFD OSPF.

(no), BFD OSPF.

```
[no] ip ospf bfd-enable
```

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BFD OSPF .

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-SERIAL

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-E1

CONFIG-MULTILINK

CONFIG-LOOPBACK

CONFIG-GRE

CONFIG-IP4IP4

CONFIG-LT

```
esr(config-if-gi)# ip ospf bfd-enable
```

## **ipv6 bfd log-adjacency-changes**

IPv6 BFD-.

(no) IPv6 BFD-.

```
ipv6 bfd log-adjacency-changes
no ipv6 bfd log-adjacency-changes
```

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CONFIG

```
esr(config)# ipv6 bfd log-adjacency-changes
```

## ipv6 bfd neighbor

BFD IPv6-. bgp- next-hop.

(no) BFD IPv6-.

```
ipv6 bfd neighbor <IPv6-ADDR> [ interface <IF> ] [ local-address <IPv6-ADDR> [ multihop ] ] [ vrf <VRF> ]
no ipv6 bfd neighbor <IPv6-ADDR> [ vrf <VRF> ]
```

<IPv6-ADDR> IPv6-, X:X:X:X::X, [0..FFFF];

<IF> – , , ;

<VRF> – VRF, 31;

multihop – TTL=255, BFD .

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CONFIG

```
esr(config)# ipv6 bfd neighbor FF02:0:0:0:0:1:FF00::/104
```

## ipv6 ospf bfd-enable

BFD OSPFv3.

(no), BFD OSPFv3.

[no] ipv6 ospf bfd-enable

BFD OSPF .

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CONFIG-GI

CONFIG-TE

CONFIG-SUBIF

CONFIG-QINQ-IF

CONFIG-PORT-CHANNEL

CONFIG-BRIDGE

CONFIG-LOOPBACK

CONFIG-LT

```
esr(config-if-gi)# ip ospf bfd-enable
```

## show ip bfd

BFD- .

```
show ip bfd [ { interface <IF> | tunnel <TUN> } ]
```

<IF>- , , .

<TUN>- , , .

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ROOT

```
esr# show ip bfd
Minimum RX interval: 200 ms
Minimum TX interval: 200 ms
Idle TX interval:    1000 ms
Multiplier:         5 packets
Passive:             No
esr# show ip bfd interface gil/0/1
Minimum RX interval: 200 ms
Minimum TX interval: 200 ms
Idle TX interval:    1000 ms
Multiplier:         10 packets
Passive:             Yes
```



