

Reliability Configuration Commands



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Chapter 1 VRRP Configuration Commands

1.1 VRRP Configuration Commands

1.1.1 vrrp

description

To enable Virtual Router Redundancy Protocol (VRRP), use the `vrrp vrid` command. Use the `no` form of this command to restore the default value.

vrrp vrid *associate virtual-address*

no vrrp vrid

parameter

parameter	Description
<i>vrid</i>	ID of Virtual routing switch. Valid value is from 1 to 255.
<i>virtual-address</i>	Virtual IP address.

default

disabled

instruction

The virtual IP address must be in the same network range of the interface IP, or the virtual routing switch won't work.

When the virtual IP address is identical to the interface IP address, the system will automatically advance routing switch to 255.

example

The following example shows how to enable vrrp group 1 on interface vlan 1 and the configured virtual IP address is 192.168.20.100:

```
Switch(config_v1)#vrrp 1 associate 192.168.20.100
```

```
Switch(config_v1)#
```

1.1.2 vrrp authentication

description

To configure Virtual Router Redundancy Protocol (VRRP) authentication method on the interface, use the `vrrp authentication` command. Use the `no` form of this command to restore the default value.

vrrp vrid authentication {word}

parameter

parameter	Description
<i>vrid</i>	ID of virtual routing switch. Valid value is from 1 to 255.

default

no-authen

instruction

The routing switch group which makes up of the virtual routing switch must have the identical authentication method.

example

The following example configures authentication method of the virtual routing switch 1 on interface vlan 1 to simple-text and the authentication character string is test:

```
Switch(config_v1)#vrrp 1 authentication simple-text test
```

1.1.3 vrrp preempt**description**

To configure Virtual Router Redundancy Protocol (VRRP) preempt, use the vrrp vrid preempt command. Use the no form of this command to restore the default value.

vrrp vrid preempt {on|off}

no vrrp vrid preempt

parameter

parameter	Description
<i>vrid</i>	ID of virtual routing switch. The valid value is from 1 to 255.

default

enabled

instruction

none

example

The following example disables preempt of virtual routing switch 1 on interface vlan 1:

```
Switch(config_v1)# vrrp 1 preempt off
```

1.1.4 vrrp priority

description

To configure Virtual Router Redundancy Protocol (VRRP) priority value, use the `vrrp priority` command. Use the `no` form of this command to restore the default value.

vrrp vrid priority *value*

no vrrp vrid priority

parameter

parameter	Description
<i>vrid</i>	ID of virtual routing switch. Valid value is from 1 to 255.
<i>value</i>	Priority value. Valid value is from 1 to 254.

default

100

instruction

none

example

The following example configures priority value of the virtual routing switch 1 on interface `vlan 1` to 120: 120.

```
Switch(config_v1)#vrrp 1 priority 120
```

1.1.5 vrrp timer

description

To configure Virtual Router Redundancy Protocol (VRRP) announce timer, use the `vrrp vrid timer advertisement` command. Use the `no` form of this command to restore the default value.

vrrp vrid timer advertisement *time_value*

no vrrp vrid timer advertisement

parameter

parameter	Description
<i>vrid</i>	ID of virtual routing switch. Valid value range is from 1 to 255.
<i>time_value</i>	Announce timer value. Valid value range is from 1 to 10 seconds.

default

1 sec

Instruction

The timer value will decide the minimum time that the virtual routing switch recovers from the error. When the link of the master routing switch is down, the backup routing switch will transit to master routing switch in $3 \times \text{advertisement} + \text{skew_time}$ interval. The large value of the advertisement is obviously not favorable for error recovery. We recommend user to use the default value.

example

The following command configures announce timer value of virtual routing switch 1 on interface vlan 1 to 2 seconds:

```
Switch(config_v1)#vrrp 1 timer advertisement 2
```

1.1.6 show vrrp

description

To display Virtual Router Redundancy Protocol (VRRP) information, use the show vrrp command.

show vrrp [**interface** *intf-id*]

parameter

parameter	Description
<i>intf-id</i>	The concrete physical interface.

Default

none

instruction

none

example

The following example displays vrrp information on interface vlan 1:

```
Switch(config)# show vrrp interface vlan1
VLAN1 (192.168.20.118, 255.255.255.0 00e0.0f42.0000)
```

```
-----
group id: 1
state: Master
virtual mac address: 0000.5e00.0101
priority: 100
preempt: on
authentication: no-authen
advertisement interval: 1
associate IP address: 192.168.20.110
advertisement timer expiry: 1
```

1.1.7 debug vrrp

description

To enable debugging VRRP information, use the debug vrrp command. Use the no form of this command to disable debugging VRRP information.

debug vrrp {event|packet}

no debug vrrp {event|packet}

parameter

none

default

disabled

instruction

none

example

The following command enables VRRP debugging switch:

```
Switch# debug vrrp packet
```