Digital VoIP Gateway Active-Standby Backup Service using VRRP Protocol





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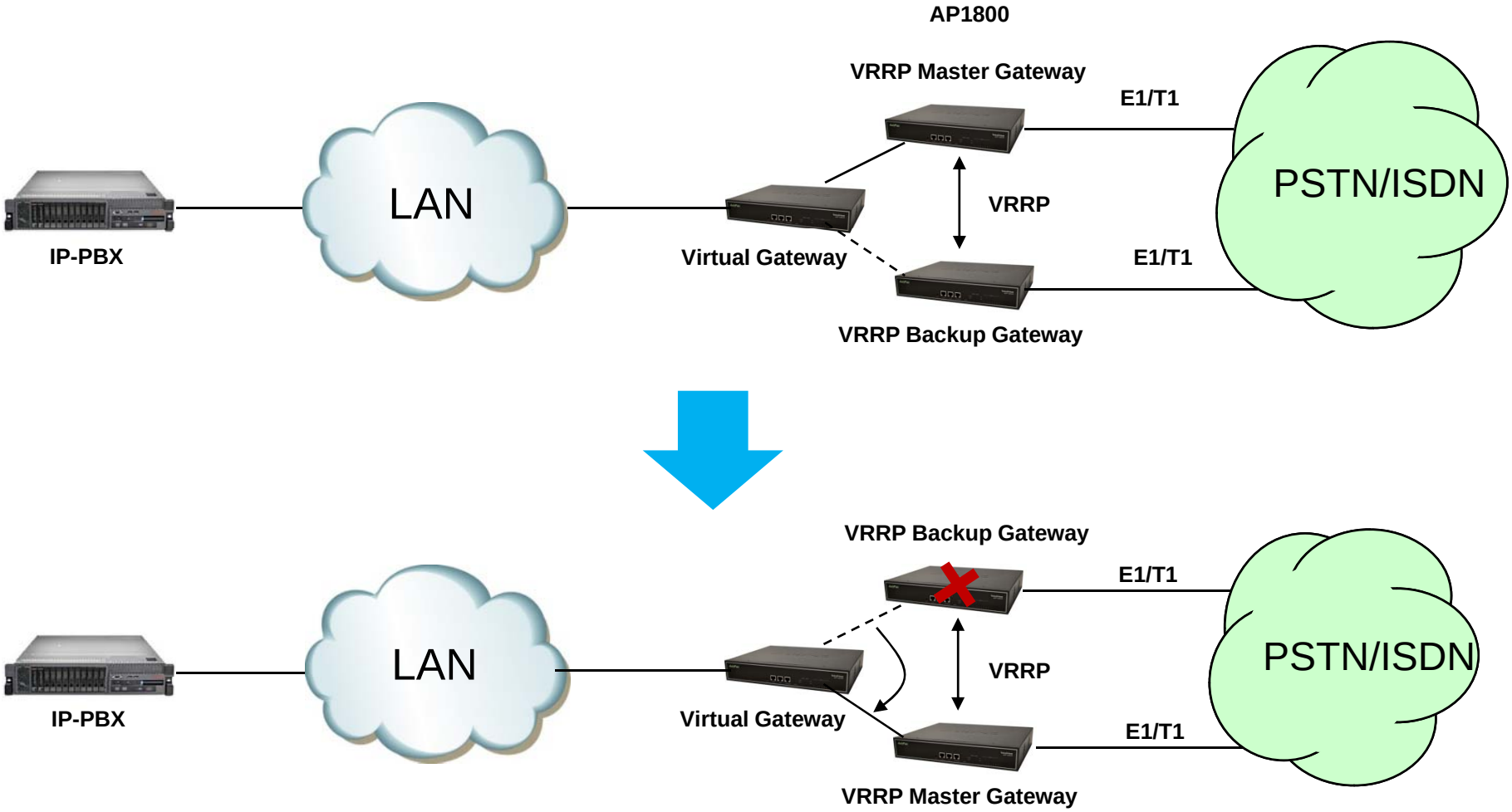
What is VRRP Protocol?

- Virtual Router Redundancy Protocol
- Originally Developed for Router System
- Described in RFC 2338
- Two types of routers; master and backup routers.
- Configure up to 255 virtual routers in a group.
- Master routers have a priority of 255 and backup routers have a priority of 1-254.

VRRP Protocol in VoIP Gateway Service

- High-Availability Solutions for VoIP Service
- Enables a pair of redundant (1+1) gateways on a LAN to negotiate ownership of a virtual IP address. One device is elected to be active and the other to be standby.
- If the active fails, the backup server takes over.

Network Diagram for VRRP



Sample Configuration (CLI)

Master Gateway

```
interface FastEthernet0/0
 ip address 172.16.8.49 255.255.0.0
 speed auto
 vrrp 1 ip 172.16.8.1
```

Backup Gateway

```
interface FastEthernet0/0
 ip address 172.16.8.48 255.255.0.0
 speed auto
 vrrp 1 ip 172.16.8.1
```

```
Router# show vrrp
FastEthernet0/0 vrid 1 state is Master
    Advertisement Interval: 1 second(s)
    Auth Type: No Authentication (0)
    Priority: 100 (default backup priority)
    Preempt is enabled
    MAC address: use virtual address (0000.5e00.0101)
    IP Address: 172.16.8.1
Router#
```

Thank you!

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