



链滴

Centos7 使用 nmcli 命令行工具配置 bond 之章节一

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原文链接: <https://ld246.com/article/1546869859436>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

创建bond接口配置文件

- `systemctl status NetworkManager && systemctl start NetworkManager`
- `nmcli con add type bond ifname bond0 mode active-backup`
- `nmcli con add type bond-slave ifname enp2s0f0 master bond0`
- `nmcli con add type bond-slave ifname enp2s0f1 master bond0`

将原来的网卡配置文件备份并删除

- `cd /etc/sysconfig/network-scripts/`
- `mkdir bk && mv ifcfg-enp2s0f* bk/`

对bond0配置网络信息并启动网络进行测试

- `sed -i 's/dhcp/static/g' /etc/sysconfig/network-scripts/ifcfg-bond-bond0`
- `echo "IPADDR=192.168.2.110" >> /etc/sysconfig/network-scripts/ifcfg-bond-bond0`
- `echo "NETMASK=255.255.255.0" >> /etc/sysconfig/network-scripts/ifcfg-bond-bond0`
- `echo "GATEWAY=192.168.2.1" >> /etc/sysconfig/network-scripts/ifcfg-bond-bond0`
- `echo "DNS1=127.0.0.1" >> /etc/sysconfig/network-scripts/ifcfg-bond-bond0`
- `nmcli con up bond-slave-enp2s0f0`
- `nmcli con up bond-slave-enp2s0f1`
- `nmcli con up bond-bond0`
- `systemctl restart network`
- `ip a | grep bond0`
- `cat /proc/net/bonding/bond0`
- `cat /sys/class/net/bond0/`

说明:

不支持对不使用网络交换机的直接线缆连接进行绑定操作。笔者做个测试，使用hub进行bonding测试，当断掉其中一个从属接口是是不会自动进行切换的，拔了网线(down)才可以。

bond0 其实就是主接口、enp2s0f0, enp2s0f1 就是所谓的从属接口

如果bond启动异常，可以尝试停止NetworkManager服务

下面是官方的一些介绍，有意思的童鞋可以查阅下：

Root Cause

- The Linux bonding driver is not developed or tested with crossover in mind, either by Red Hat or the upstream Linux community.
- Such a configuration is at odds with accepted industry recommendations for redundancy and reliability.
- The Bonding module in MII monitoring mode concerns itself with the state of the "link" as reported by the PHY¹ in the NIC, so with the state the hardware and the electrical signalling is reported.
- If an interface is administratively disabled in such a configuration, the `PHY` may still maintain electrical connectivity to the peer and failover will not work as expected, leading to a lack of

bond communication.

- This is a hardware/PHY/firmware design point, and not something to be fixed in software. As this is very hardware dependant, it is best to simulate all failure scenarios prior deployment.

- Whilst the ARP monitoring mode could be used, there are few configurations where it would theoretically work, and it is easily possible to get such systems into a state where link appears up but communication does not work.

未完待续内容预告.....

Centos7使用nmcli命令行工具配置bond之章节二

- fail_over_mac=0/1
- miimon=time_in_milliseconds

Centos7配置bond的VLAN子接口之章节三