

命令行控制台使用说明

- 状态页面
- 网络配置
- 排障工具

状态页面

- 系统安装完成后并后重启后，将可以看到【命令行控制台】的状态页面（图中黄色字体提示：先配置好网络，然后等系统初始化）

```
-----  
System Time:      [2022-12-01 14:48:23]  
System Version:  [d9-1.0.1]  
Network Status:  [Offline]  
Bandwidth:       [0 Mbps]  
Disk Count:      [12]  
Disk Used:       [858.05 M / 33.65 T (0.00%)]  
-----  
Please config the network and wait for system initialization!  
<Press [Enter] key to enter settings>  
_
```

- 等待系统连网成功，系统开始初始化时，会显示如下画面（图中绿色字体提示：系统正在初始化...）

```
-----  
System Time: [2022-12-01 14:49:18]  
System Version: [d9-1.0.1]  
Network Status: [Online]  
Bandwidth: [0 Mbps]  
Disk Count: [12]  
Disk Used: [858.05 M / 33.65 T (0.00%)]  
-----
```

```
System initalizing...  
<Press [Enter] key to enter settings>
```

- 根据不同网速和系统配置，整个初始化过程会持续几分钟
- 完成后，将可以看到如下画面

```
-----  
System Time: [2022-12-01 15:20:59]  
System Version: [d9-1.0.1]  
Node ID: [2a188accbf ■■■■■■■■■■]  
Network Status: [Online]  
IP: [192.168.142.186]  
Bandwidth: [1000 Mbps]  
Disk Count: [12]  
Disk Used: [39.96 G / 32.99 T (0.12%)]  
-----
```



```
<Press [Enter] key to enter settings>
```

- 到此刻系统安装已经完成，可以正常进行扫码绑定了

网络配置

系统默认所有网卡都是DHCP自动获取IP地址，此处以配置静态IP为例

- 在命令行控制台状态页面下，敲回车键，进入设置菜单

```
-----  
System Time: [2022-12-01 14:48:38]  
System Version: [d9-1.0.1]  
Network Status: [Online]  
Bandwidth: [0 Mbps]  
Disk Count: [12]  
Disk Used: [858.05 M / 33.65 T (0.00%)]  
-----  
Please config the network and wait for system initialization!  
Press [Enter] key to enter settings>
```

- 在设置选项中输入“1”，选择网络设置，回车

```
[1] Network Settings  
[2] Troubleshooting Tools  
[3] System Settings  
[4] Switch Language [↕ ↕ /English]  
[9] Command Mode  
[0] Exit  
> 1
```

- 在网卡列表中选择要配置的网卡，此处以配置eth1为例，其编号为2，输入2，并回车

```
[1] eth0 [6c:92:bf:15:ca:cc] [1Gbit/s] [UP] IP:[192.168.142.186] Gateway:[192.168.142.1] Metric:[1000]  
[2] eth1 [6c:92:bf:15:ca:cd] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]  
[3] eth2 [6c:92:bf:15:ca:ce] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]  
[4] eth3 [6c:92:bf:15:ca:cf] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]  
[5] eth4 [6c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]  
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]  
Please select the NIC number to be configured[1~6]:  
<Press Ctrl+C or double [Enter] to return>  
> 2
```

- 是否启用网卡，选择1，启用

```

[1] eth0 [6c:92:bf:15:ca:cc] [1Gbit/s] [UP] IP:[192.168.142.186] Gateway:[192.168.142.1] Metric:[1000]
[2] eth1 [6c:92:bf:15:ca:cd] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[3] eth2 [6c:92:bf:15:ca:ce] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[4] eth3 [6c:92:bf:15:ca:cf] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[5] eth4 [6c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
Please select the NIC number to be configured[1~6]:
<Press Ctrl+C or double [Enter] to return>
Selected NIC: [eth1]

Enable or disableb the NIC:
[1] Enable
[2] Disable
> 1_

```

- 网卡启用成功后会提示选择网络类型，此处连接2，静态

```

[1] eth0 [6c:92:bf:15:ca:cc] [1Gbit/s] [UP] IP:[192.168.142.186] Gateway:[192.168.142.1] Metric:[1000]
[2] eth1 [6c:92:bf:15:ca:cd] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[3] eth2 [6c:92:bf:15:ca:ce] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[4] eth3 [6c:92:bf:15:ca:cf] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[5] eth4 [6c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
Please select the NIC number to be configured[1~6]:
<Press Ctrl+C or double [Enter] to return>
Selected NIC: [eth1]

Enable or disableb the NIC:
[1] Enable
[2] Disable
Enabling NIC...
NIC enabled

Please select the network type:
[1] DHCP
[2] Static
> 2

```

- 接着输入IP地址，此处以10.0.0.2为例

```

[1] eth0 [6c:92:bf:15:ca:cc] [1Gbit/s] [UP] IP:[192.168.142.186] Gateway:[192.168.142.1] Metric:[1000]
[2] eth1 [6c:92:bf:15:ca:cd] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[3] eth2 [6c:92:bf:15:ca:ce] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[4] eth3 [6c:92:bf:15:ca:cf] [1Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[5] eth4 [6c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
Please select the NIC number to be configured[1~6]:
<Press Ctrl+C or double [Enter] to return>
Selected NIC: [eth1]

Enable or disableb the NIC:
[1] Enable
[2] Disable
Enabling NIC...
NIC enabled

Please select the network type:
[1] DHCP
[2] Static

Please enter the IP Address:
> 10.0.0.2_

```

- 接着输入子网掩码，此处以255.255.255.0为例

```
[1] eth0 [6c:92:bf:15:ca:cc] [1Gbit/s] [UP] IP: [192.168.142.186] Gateway: [192.168.142.1] Metric: [1000]
[2] eth1 [6c:92:bf:15:ca:cd] [1Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
[3] eth2 [6c:92:bf:15:ca:ce] [1Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
[4] eth3 [6c:92:bf:15:ca:cf] [1Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
[5] eth4 [6c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
Please select the NIC number to be configured [1~6]:
<Press Ctrl+C or double [Enter] to return>
Selected NIC: [eth1]

Enable or disable the NIC:
[1] Enable
[2] Disable
Enabling NIC...
NIC enabled

Please select the network type:
[1] DHCP
[2] Static

Please enter the IP Address:
IP Address: [10.0.0.2]

Please enter the Subnet Mask:
> 255.255.255.0
```

- 接着输入网关地址，此处以10.0.0.1为例

```
[1] eth0 [6c:92:bf:15:ca:cc] [1Gbit/s] [UP] IP: [192.168.142.186] Gateway: [192.168.142.1] Metric: [1000]
[2] eth1 [6c:92:bf:15:ca:cd] [1Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
[3] eth2 [6c:92:bf:15:ca:ce] [1Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
[4] eth3 [6c:92:bf:15:ca:cf] [1Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
[5] eth4 [6c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP: [] Gateway: [] Metric: [0]
Please select the NIC number to be configured [1~6]:
<Press Ctrl+C or double [Enter] to return>
Selected NIC: [eth1]

Enable or disable the NIC:
[1] Enable
[2] Disable
Enabling NIC...
NIC enabled

Please select the network type:
[1] DHCP
[2] Static

Please enter the IP Address:
IP Address: [10.0.0.2]

Please enter the Subnet Mask:
Subnet Mask: [255.255.255.0]

Please enter the Gateway Address:
> 10.0.0.1
```

- 接着输入此网卡的跃点，数据越小，路由优先级越高
 - 建议业务网卡的优先级设置的高一些，数值低于100
 - 建议管理网卡的优先级设置的低一些，数据大于10000
 - 允许输入的数值范围：20~20000
 - 此处假定配置的是业务网卡，跃点数设置为99

```
[5] eth4 [8c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
Please select the NIC number to be configured[1~6]:
<Press Ctrl+C or double [Enter] to return>
Selected NIC: [eth1]

Enable or disable the NIC:
[1] Enable
[2] Disable
Enabling NIC...
NIC enabled

Please select the network type:
[1] DHCP
[2] Static

Please enter the IP Address:
IP Address: [10.0.0.2]

Please enter the Subnet Mask:
Subnet Mask: [255.255.255.0]

Please enter the Gateway Address:
Gateway Address: [10.0.0.1]

Please enter the route metric[20~20000]:
<Larger number indicates lower routing priority>
<Management NIC should have a bigger number than service NIC>
<Recommendation: service NIC lower than 100, management NIC bigger than 10000>
> 99
```

- 网络配置完成，按回车键返回主菜单

```
[5] eth4 [8c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP:[] Gateway:[] Metric:[0]
Please select the NIC number to be configured[1~6]:
<Press Ctrl+C or double [Enter] to return>
Selected NIC: [eth1]

Enable or disable the NIC:
[1] Enable
[2] Disable
Enabling NIC...
NIC enabled

Please select the network type:
[1] DHCP
[2] Static

Please enter the IP Address:
IP Address: [10.0.0.2]

Please enter the Subnet Mask:
Subnet Mask: [255.255.255.0]

Please enter the Gateway Address:
Gateway Address: [10.0.0.1]

Please enter the route metric[20~20000]:
<Larger number indicates lower routing priority>
<Management NIC should have a bigger number than service NIC>
<Recommendation: service NIC lower than 100, management NIC bigger than 10000>
Configuring network...
Successfully configured network, press [Enter] to return
> -
```

- 再次回到网卡设置，就可以看到我们设置的网卡对应的配置了

```
[1] eth0 [6c:92:bf:15:ca:cc] [1Gbit/s] [UP] IP:[192.168.142.186] Gateway:[192.168.142.1] Metric:[1000]
[2] eth1 [6c:92:bf:15:ca:cd] [1Gbit/s] [DOWN] IP:[10.0.0.2] Gateway:[10.0.0.1] Metric:[99]
[3] eth2 [6c:92:bf:15:ca:ce] [1Gbit/s] [DOWN] IP:[ ] Gateway:[ ] Metric:[0]
[4] eth3 [6c:92:bf:15:ca:cf] [1Gbit/s] [DOWN] IP:[ ] Gateway:[ ] Metric:[0]
[5] eth4 [6c:92:bf:15:ca:d0] [10Gbit/s] [DOWN] IP:[ ] Gateway:[ ] Metric:[0]
[6] eth5 [6c:92:bf:15:ca:d1] [10Gbit/s] [DOWN] IP:[ ] Gateway:[ ] Metric:[0]
Please select the NIC number to be configured[1~6]:
<Press Ctrl+C or double [Enter] to return>
> -
```

排障工具

如果遇到网络不通，或其他问题，可以使用【命令行控制台】的【排障工具】进行检查

- 在设置菜单中选择2，进入排障工具

```
[1] Network Settings
[2] Troubleshooting Tools
[3] System Settings
[4] Switch Language [♦ ♦ /English]
[9] Command Mode
[0] Exit
> 2
```

- 输入help，可以查看当前支持的工具列表

```
[Troubleshooting Tools]
help - Show help
exit - Exit
> help
```

- 可以看到当前支持的工具有: ping mtr dig host nslookup arp ifup ifdown ip route ifconfig .configip lsblk fio mfs MegaCli64 lsscsi sas2ircu sas3ircu storcli64 dmesg free uname uptime man help exit

```
[Troubleshooting Tools]
help - Show help
exit - Exit
Help
Press <Enter> to execute command
Supported commands: [ ping, mtr, dig, host, nslookup, arp, ifup, ifdown, ip, route, ifconfig, .configip, lsblk, fio, mfs, MegaCli64, lsscsi, sas2ircu, sas3ircu, storcli64, dmesg, free, uname, uptime, man, help, exit ]
Use '<command> --help' or 'man <command>' for detail help info
Enter 'exit' or Ctrl+C to exit.
>
```

- 这些工具的使用方式与在系统中使用相同
- 例如查看系统路由，输入: ip route，并回车，输出如下

```
[Troubleshooting Tools]
```

```
help - Show help
```

```
exit - Exit
```

```
default via 192.168.122.1 dev eth0 metric 1000
```

```
default via 192.168.122.1 dev eth1 metric 1001
```

```
192.168.122.0/24 dev eth0 proto kernel scope link src 192.168.122.216
```

```
192.168.122.0/24 dev eth1 proto kernel scope link src 192.168.122.179
```

```
-
```