

Updating Port #1 IP address at customer

Version 2.0

Pre-Requisite

1. Keyboard
2. Monitor
3. HDMI to HDMI (Micro) cable
4. Norigate connected to Internet on Port #1
5. Norigate OS is at least 20.04

Step 01 - Login

Login to your Norigate device using **netop** credentials as follows.

login: **netop**

password: read the below message for instructions

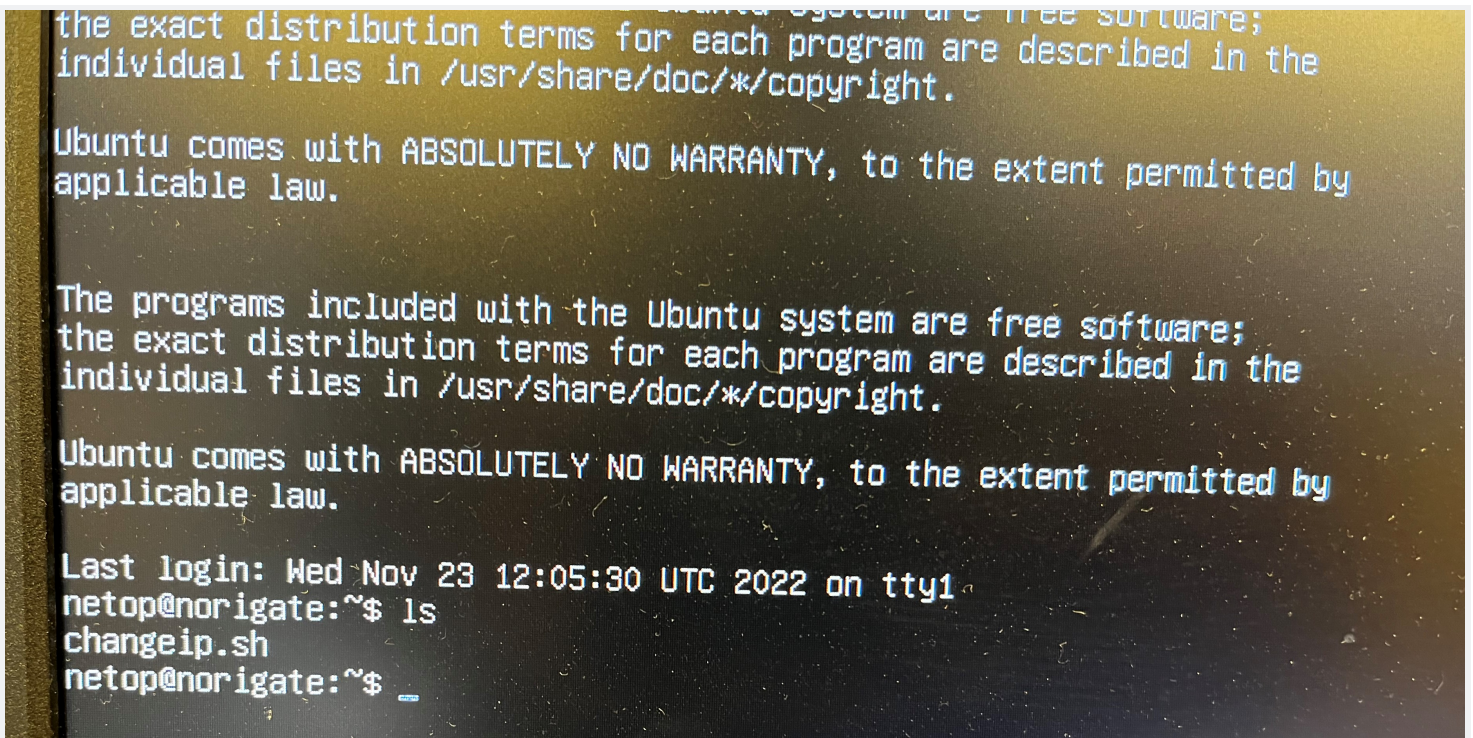
check the sticker on the Norigate and find its Hardware serial number, it is the password for the device. For example, it is **TSBIB1012613** in the picture below



```
Ubuntu 22.04.1 LTS norigate tty1
norigate login: netop_
```

Step 02 - Confirm utility availability on device

Run `ls` command to check the file and look for the file named `changeip.sh`



```
the exact distribution terms for each program are free software;  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
Last login: Wed Nov 23 12:05:30 UTC 2022 on tty1  
netop@norigate:~$ ls  
changeip.sh  
netop@norigate:~$ _
```

Step 03 - Execute `changeip.sh` script

After seeing the file, run the following command to execute the script for changing the ip address

```
sudo ./changeip.sh
```

The script will ask for a password to verify the user and enter the same password used for netop user login.

Password: `netop`

Step 04 - Provide a new valid IP address

It will prompt you to enter the following information.

1. New IP address with netmask in CIDR notation (eg/24) Provide new IP address, for example, `192.168.128.98/24`

```
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Last login: Wed Nov 23 12:05:30 UTC 2022 on tty1
netop@norigate:~$ ls
changeip.sh
netop@norigate:~$ sudo ./changeip.sh
[sudo] password for netop:
Please type the new IP address with netmask in CIDR notation (eg /24): 192.168.128.98/24
Please type the new gateway address: _
```

2. Type new gateway address: for example, 192.168.128.1
3. Provide with DNS Sever: for example, 8.8.8.8

```
https://ubuntu.com/engage/secure-kubernetes-at-the-edge

44 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

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Last login: Wed Nov 23 12:05:30 UTC 2022 on tty1
netop@norigate:~$ ls
changeip.sh
netop@norigate:~$ sudo ./changeip.sh
[sudo] password for netop:
Please type the new IP address with netmask in CIDR notation (eg /24): 192.168.128.98/24
Please type the new gateway address: 192.168.128.1
Please type the one DNS server: 8.8.8.8
Setting IP address 192.168.128.98/24 to enp1s0, seting default gateway to 192.168.128.1 and DNS address to 8.8.8.8
You will most likely loose connection!, plaase reconnect to 192.168.128.98/24
Press enter to continue or ctrl-c to cancel_
```

Step 05 - Validate your updated IP address

Run the following command to see the updated IP address

```
ip a | grep enp1s0
```

```
netop@norigate:~$  
netop@norigate:~$  
netop@norigate:~$ ip a | grep enp1s0  
2: enp1s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000  
    inet 192.168.128.98/24 brd 192.168.128.255 scope global enp1s0  
netop@norigate:~$
```

Step 06 - Validate internet connection

Execute the command to ping the Google server or Baidu server by following the command

```
ping www.google.com
```

```
netop@norigate:~$ ping www.google.com  
PING forcesafesearch.google.com (216.239.38.120) 56(84) bytes of data.  
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=1 ttl=118 time=1.43 ms  
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=2 ttl=118 time=1.42 ms  
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=3 ttl=118 time=1.42 ms  
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=4 ttl=118 time=1.40 ms  
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=5 ttl=118 time=1.41 ms  
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=6 ttl=118 time=1.35 ms  
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=7 ttl=118 time=1.51 ms
```

For devices in China

1. Check with IP address

```
ping 180.76.76.76
```

0% packet loss confirms good connection

```
rahul-pd@ubuntu:~$ ping 8.8.8.8  
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.  
64 bytes from 8.8.8.8: icmp_seq=1 ttl=128 time=6.80 ms  
64 bytes from 8.8.8.8: icmp_seq=2 ttl=128 time=7.17 ms  
^C  
--- 8.8.8.8 ping statistics ---  
2 packets transmitted, 2 received, 0% packet loss, time 1002ms  
rtt min/avg/max/mdev = 6.795/6.981/7.168/0.186 ms
```

2. Check with DNS lookup

```
ping baidu.com
```

0% packet loss confirms good connection

