Assignment 6 Ansible + Containerlab

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```
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main   sudo containerlab deploy +
[sudo] password for nithiroj:
23:35:55 INFO Containerlab started version=0.73.0
23:35:55 INFO Parsing & checking topology file=project.clab.yml
23:35:55 INFO Creating docker network name=clab IPv4 subnet=172.20.20.0/24 IPv6 subnet=3fff:172:20:20::/64 MTU=0
23:35:56 INFO Creating lab directory path=/home/nithiroj/modern-network-2025/lab6/clab-project
23:35:56 INFO Creating container name=srl1
23:35:56 INFO Creating container name=srl2
23:35:56 INFO Running postdeploy actions kind=nokia_srlinux node=srl2
23:35:56 INFO Created link: srl1:e1-1 ■----■ srl2:e1-1
23:35:56 INFO Running postdeploy actions kind=nokia_srlinux node=srl1
23:36:12 INFO Adding host entries path=/etc/hosts
23:36:12 INFO Adding SSH config for nodes path=/etc/ssh/ssh_config.d/clab-project.conf
```

Name	Kind/Image	State	IPv4/6 Address
clab-project-srl1	nokia_srlinux ghcr.io/nokia/srlinux:latest	running	172.20.20.3 3fff:172:20:20::3
clab-project-srl2	nokia_srlinux ghcr.io/nokia/srlinux:latest	running	172.20.20.2 3fff:172:20:20::2

```
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main   sudo docker ps -a
CONTAINER ID   IMAGE                            COMMAND              CREATED          STATUS          PORTS     NAMES
ea7a1d68315f   ghcr.io/nokia/srlinux:latest     "/tini -- /usr/local…"  49 seconds ago  Up 49 seconds             clab-project-srl2
0b8922cfd89c   ghcr.io/nokia/srlinux:latest     "/tini -- /usr/local…"  49 seconds ago  Up 49 seconds             clab-project-srl1
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main
                                                                                    Ln 27, Col 1 (17 selected)   Spaces: 2   UTF-8
```

Container lab deploy and docker ps -a

```
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main   ping 172.20.20.2 -c 3
ping 172.20.20.3 -c 3
PING 172.20.20.2 (172.20.20.2) 56(84) bytes of data.
64 bytes from 172.20.20.2: icmp_seq=1 ttl=64 time=1.13 ms
64 bytes from 172.20.20.2: icmp_seq=2 ttl=64 time=1.10 ms
64 bytes from 172.20.20.2: icmp_seq=3 ttl=64 time=1.10 ms

--- 172.20.20.2 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2002ms
rtt min/avg/max/mdev = 1.096/1.107/1.129/0.015 ms
PING 172.20.20.3 (172.20.20.3) 56(84) bytes of data.
64 bytes from 172.20.20.3: icmp_seq=1 ttl=64 time=1.11 ms
64 bytes from 172.20.20.3: icmp_seq=2 ttl=64 time=1.14 ms
64 bytes from 172.20.20.3: icmp_seq=3 ttl=64 time=1.12 ms

--- 172.20.20.3 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2002ms
rtt min/avg/max/mdev = 1.107/1.121/1.141/0.014 ms
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main
                                                                                    Ln 30, Col 1 (43 selected)   Spaces: 2   UTF-8
```

Ping test to clab-project-srl1 & srl2

```
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  sudo docker exec clab-project-srl1 bash -c "printf 'Permit
RootLogin yes\nPasswordAuthentication yes\nPubkeyAuthentication yes\nUsePAM yes\n' > /etc/ssh/sshd_config_mgmt"
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  sudo docker exec clab-project-srl2 bash -c "printf 'Permit
RootLogin yes\nPasswordAuthentication yes\nPubkeyAuthentication yes\nUsePAM yes\n' > /etc/ssh/sshd_config_mgmt"
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  sudo docker exec clab-project-srl1 bash -c "pkill sshd; sl
eep 2; /usr/sbin/sshd"
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  sudo docker exec clab-project-srl2 bash -c "pkill sshd; sl
eep 2; /usr/sbin/sshd"
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  sudo docker exec -it clab-project-srl1 bash
root@srl1:/# passwd
New password:
Retype new password:
passwd: password updated successfully
root@srl1:/# exit
exit
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  sudo docker exec -it clab-project-srl2 bash
root@srl2:/# passwd
New password:
Retype new password:
passwd: password updated successfully
root@srl2:/# exit
exit
```

Config ssh on docker

```
 x nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  ssh-keygen -f "/home/$USER/.ssh/known_hosts" -R "172.20.
20.2"
# Host 172.20.20.2 found: line 1
# Host 172.20.20.2 found: line 2
# Host 172.20.20.2 found: line 3
/home/nithiroj/.ssh/known_hosts updated.
Original contents retained as /home/nithiroj/.ssh/known_hosts.old
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  ssh-keygen -f "/home/$USER/.ssh/known_hosts" -R "172.20.20
.3"
# Host 172.20.20.3 found: line 1
# Host 172.20.20.3 found: line 2
# Host 172.20.20.3 found: line 3
/home/nithiroj/.ssh/known_hosts updated.
Original contents retained as /home/nithiroj/.ssh/known_hosts.old
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  ssh root@172.20.20.2
The authenticity of host '172.20.20.2 (172.20.20.2)' can't be established.
ED25519 key fingerprint is SHA256:/aXA3LTj5ZVv4N5AnyRXy9Sb6GpPbOO2ObPGwTwtNdM.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.20.20.2' (ED25519) to the list of known hosts.
(root@172.20.20.2) Password:
root@srl2:~# exit
logout
Connection to 172.20.20.2 closed.
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  ssh root@172.20.20.3
The authenticity of host '172.20.20.3 (172.20.20.3)' can't be established.
ED25519 key fingerprint is SHA256:iJLQDOYI37tjnD+7GkST7ID1DdxqVjvTNzI05hvc7cY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.20.20.3' (ED25519) to the list of known hosts.
(root@172.20.20.3) Password:
root@srl1:~# exit
logout
Connection to 172.20.20.3 closed.
```

Ssh keygen and ssh to root on clab-project-srl1 & srl2

```
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  ansible -i hosts.ini lab -m ansible.builtin.ping
[WARNING]: sftp transfer mechanism failed on [172.20.20.2]. Use ANSIBLE_DEBUG=1 to see detailed information
[WARNING]: scp transfer mechanism failed on [172.20.20.2]. Use ANSIBLE_DEBUG=1 to see detailed information
clab-srl02-srl2 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.11"
    },
    "changed": false,
    "ping": "pong"
}
[WARNING]: sftp transfer mechanism failed on [172.20.20.3]. Use ANSIBLE_DEBUG=1 to see detailed information
[WARNING]: scp transfer mechanism failed on [172.20.20.3]. Use ANSIBLE_DEBUG=1 to see detailed information
clab-srl02-srl1 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.11"
    },
    "changed": false,
    "ping": "pong"
}
```

Ansible ping all

```
nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main  ansible-playbook -i hosts.ini showifconfig.yml

PLAY [show ifconfig with shell command] ****************************************************************************

TASK [Gathering Facts] *********************************************************************************************
[WARNING]: sftp transfer mechanism failed on [172.20.20.2]. Use ANSIBLE_DEBUG=1 to see detailed information
[WARNING]: scp transfer mechanism failed on [172.20.20.2]. Use ANSIBLE_DEBUG=1 to see detailed information
ok: [clab-srl02-srl2]
[WARNING]: sftp transfer mechanism failed on [172.20.20.3]. Use ANSIBLE_DEBUG=1 to see detailed information
[WARNING]: scp transfer mechanism failed on [172.20.20.3]. Use ANSIBLE_DEBUG=1 to see detailed information
ok: [clab-srl02-srl1]

TASK [show ifconfig] ***********************************************************************************************
changed: [clab-srl02-srl2]
changed: [clab-srl02-srl1]

TASK [debug] *******************************************************************************************************
ok: [clab-srl02-srl1] => {
    "output.stdout_lines": [
        "gateway: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 127.250.250.1  netmask 255.255.255.252  broadcast 127.250.250.3",
        "        inet6 fe80::1  prefixlen 120  scopeid 0x20<link>",
        "        ether 1a:ef:00:ff:00:00  txqueuelen 1000  (Ethernet)",
        "        RX packets 13  bytes 990 (990.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 11  bytes 830 (830.0 B)",
        "        TX errors 0  dropped 2 overruns 0  carrier 0  collisions 0",
        "",
        "lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536",
        "        inet 127.0.0.1  netmask 255.0.0.0",
        "        inet6 ::1  prefixlen 128  scopeid 0x10<host>",
        "        loop  txqueuelen 1000  (Local Loopback)",
        "        RX packets 0  bytes 0 (0.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 0  bytes 0 (0.0 B)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0",
        "",
        "mgmt0.0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 172.20.20.3  netmask 255.255.255.0  broadcast 172.20.20.255",
        "        inet6 fe80::42:acff:fe14:1403  prefixlen 64  scopeid 0x20<link>",
        "        inet6 3fff:172:20:20::3  prefixlen 64  scopeid 0x0<global>",
        "        ether 02:42:ac:14:14:03  txqueuelen 1000  (Ethernet)",
        "        RX packets 1685  bytes 1563497 (1.4 MiB)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 1019  bytes 148854 (145.3 KiB)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0"
    ]
}
```

```
ok: [clab-srl02-srl2] => {
    "output.stdout_lines": [
        "gateway: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 127.250.250.1  netmask 255.255.255.252  broadcast 127.250.250.3",
        "        inet6 fe80::1  prefixlen 120  scopeid 0x20<link>",
        "        ether 1a:a7:01:ff:00:00  txqueuelen 1000  (Ethernet)",
        "        RX packets 13  bytes 990 (990.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 11  bytes 830 (830.0 B)",
        "        TX errors 0  dropped 2 overruns 0  carrier 0  collisions 0",
        "",
        "lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536",
        "        inet 127.0.0.1  netmask 255.0.0.0",
        "        inet6 ::1  prefixlen 128  scopeid 0x10<host>",
        "        loop  txqueuelen 1000  (Local Loopback)",
        "        RX packets 0  bytes 0 (0.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 0  bytes 0 (0.0 B)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0",
        "",
        "mgmt0.0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 172.20.20.2  netmask 255.255.255.0  broadcast 172.20.20.255",
        "        inet6 3fff:172:20:20::2  prefixlen 64  scopeid 0x0<global>",
        "        inet6 fe80::42:acff:fe14:1402  prefixlen 64  scopeid 0x20<link>",
        "        ether 02:42:ac:14:14:02  txqueuelen 1000  (Ethernet)",
        "        RX packets 1679  bytes 1565780 (1.4 MiB)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 951  bytes 143906 (140.5 KiB)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0"
    ]
}

PLAY RECAP *********************************************************************************************************
clab-srl02-srl1            : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
clab-srl02-srl2            : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

 nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6  main 
```

Ansible play book Show interface

```yaml
lab6 > ! showifconfig.yml > {} 0 > [] tasks > {} 0
 1   - name: show ifconfig with shell command
 2     hosts: all
 3     become: yes
 4
 5     tasks:
 6     - name: show ifconfig
 7       shell: ifconfig -a
 8       register: output
 9     - debug:
10         var: output.stdout_lines
11
12
```

Showifconfig.yml file

```
nithiroj@nithiroj-Nitro-AN515-57   ~/modern-network-2025/lab6   main   ansible-playbook -i hosts.ini change_loopback_ip_address.yml

PLAY [change loopback ip address] *************************************************************************

TASK [Gathering Facts] ************************************************************************************
[WARNING]: sftp transfer mechanism failed on [172.20.20.3]. Use ANSIBLE_DEBUG=1 to see detailed information
[WARNING]: scp transfer mechanism failed on [172.20.20.3]. Use ANSIBLE_DEBUG=1 to see detailed information
ok: [clab-srl01-srl1]
[WARNING]: sftp transfer mechanism failed on [172.20.20.2]. Use ANSIBLE_DEBUG=1 to see detailed information
[WARNING]: scp transfer mechanism failed on [172.20.20.2]. Use ANSIBLE_DEBUG=1 to see detailed information
ok: [clab-srl02-srl2]

TASK [show ifconfig before change ip address] ***********************************************************
changed: [clab-srl02-srl2]
changed: [clab-srl02-srl1]

TASK [debug] ******************************************************************************************
ok: [clab-srl02-srl1] => {
    "output.stdout_lines": [
        "gateway: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 127.250.250.1  netmask 255.255.255.252  broadcast 127.250.250.3",
        "        inet6 fe80::1  prefixlen 120  scopeid 0x20<link>",
        "        ether 1a:ef:00:ff:00:00  txqueuelen 1000  (Ethernet)",
        "        RX packets 14  bytes 1060 (1.0 KiB)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 11  bytes 830 (830.0 B)",
        "        TX errors 0  dropped 2 overruns 0  carrier 0  collisions 0",
        "",
        "lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536",
        "        inet 127.0.0.1  netmask 255.0.0.0",
        "        inet6 ::1  prefixlen 128  scopeid 0x10<host>",
        "        loop  txqueuelen 1000  (Local Loopback)",
        "        RX packets 0  bytes 0 (0.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 0  bytes 0 (0.0 B)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0",
        "",
        "mgmt0.0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 172.20.20.3  netmask 255.255.255.0  broadcast 172.20.20.255",
        "        inet6 fe80::42:acff:fe14:1403  prefixlen 64  scopeid 0x20<link>",
        "        inet6 3fff:172:20:20::3  prefixlen 64  scopeid 0x0<global>",
        "        ether 02:42:ac:14:14:03  txqueuelen 1000  (Ethernet)",
        "        RX packets 2026  bytes 1946050 (1.8 MiB)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 1225  bytes 177806 (173.6 KiB)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0"
    ]
}
```

```
ok: [clab-srl02-srl2] => {
    "output.stdout_lines": [
        "gateway: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 127.250.250.1  netmask 255.255.255.252  broadcast 127.250.250.3",
        "        inet6 fe80::1  prefixlen 120  scopeid 0x20<link>",
        "        ether 1a:a7:01:ff:00:00  txqueuelen 1000  (Ethernet)",
        "        RX packets 13  bytes 990 (990.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 11  bytes 830 (830.0 B)",
        "        TX errors 0  dropped 2 overruns 0  carrier 0  collisions 0",
        "",
        "lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536",
        "        inet 127.0.0.1  netmask 255.0.0.0",
        "        inet6 ::1  prefixlen 128  scopeid 0x10<host>",
        "        loop  txqueuelen 1000  (Local Loopback)",
        "        RX packets 0  bytes 0 (0.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 0  bytes 0 (0.0 B)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0",
        "",
        "mgmt0.0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 172.20.20.2  netmask 255.255.255.0  broadcast 172.20.20.255",
        "        inet6 3fff:172:20:20::2  prefixlen 64  scopeid 0x0<global>",
        "        inet6 fe80::42:acff:fe14:1402  prefixlen 64  scopeid 0x20<link>",
        "        ether 02:42:ac:14:14:02  txqueuelen 1000  (Ethernet)",
        "        RX packets 2023  bytes 1948535 (1.8 MiB)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 1157  bytes 172862 (168.8 KiB)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0"
    ]
}


TASK [change ip address] *********************************************************
changed: [clab-srl02-srl1]
changed: [clab-srl02-srl2]

TASK [show ifconfig after change ip address] *************************************
changed: [clab-srl02-srl1]
changed: [clab-srl02-srl2]

TASK [debug] *********************************************************************
ok: [clab-srl02-srl1] => {
    "output.stdout_lines": [
        "gateway: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 127.250.250.1  netmask 255.255.255.252  broadcast 127.250.250.3",
        "        inet6 fe80::1  prefixlen 120  scopeid 0x20<link>",
        "        ether 1a:ef:00:ff:00:00  txqueuelen 1000  (Ethernet)",
        "        RX packets 14  bytes 1060 (1.0 KiB)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 11  bytes 830 (830.0 B)",
        "        TX errors 0  dropped 2 overruns 0  carrier 0  collisions 0",
        "",
        "lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536",
        "        inet 172.148.156.31  netmask 255.255.255.0",
        "        inet6 ::1  prefixlen 128  scopeid 0x10<host>",
        "        loop  txqueuelen 1000  (Local Loopback)",
        "        RX packets 0  bytes 0 (0.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 0  bytes 0 (0.0 B)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0",
        "",
        "mgmt0.0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 172.20.20.3  netmask 255.255.255.0  broadcast 172.20.20.255",
        "        inet6 fe80::42:acff:fe14:1403  prefixlen 64  scopeid 0x20<link>",
        "        inet6 3fff:172:20:20::3  prefixlen 64  scopeid 0x0<global>",
        "        ether 02:42:ac:14:14:03  txqueuelen 1000  (Ethernet)",
        "        RX packets 2251  bytes 2198988 (2.0 MiB)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 1358  bytes 190716 (186.2 KiB)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0"
    ]
}
```

You can paste the image from the clipboard.

```
ok: [clab-srl02-srl2] => {
    "output.stdout_lines": [
        "gateway: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 127.250.250.1  netmask 255.255.255.252  broadcast 127.250.250.3",
        "        inet6 fe80::1  prefixlen 120  scopeid 0x20<link>",
        "        ether 1a:a7:01:ff:00:00  txqueuelen 1000  (Ethernet)",
        "        RX packets 13  bytes 990 (990.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 11  bytes 830 (830.0 B)",
        "        TX errors 0  dropped 2 overruns 0  carrier 0  collisions 0",
        "",
        "lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536",
        "        inet 172.148.156.31  netmask 255.255.255.0",
        "        inet6 ::1  prefixlen 128  scopeid 0x10<host>",
        "        loop  txqueuelen 1000  (Local Loopback)",
        "        RX packets 0  bytes 0 (0.0 B)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 0  bytes 0 (0.0 B)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0",
        "",
        "mgmt0.0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500",
        "        inet 172.20.20.2  netmask 255.255.255.0  broadcast 172.20.20.255",
        "        inet6 3fff:172:20:20::2  prefixlen 64  scopeid 0x0<global>",
        "        inet6 fe80::42:acff:fe14:1402  prefixlen 64  scopeid 0x20<link>",
        "        ether 02:42:ac:14:14:02  txqueuelen 1000  (Ethernet)",
        "        RX packets 2247  bytes 2201407 (2.0 MiB)",
        "        RX errors 0  dropped 0  overruns 0  frame 0",
        "        TX packets 1275  bytes 184810 (180.4 KiB)",
        "        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0"
    ]
}

PLAY RECAP *********************************************************************************
clab-srl02-srl1            : ok=6    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
clab-srl02-srl2            : ok=6    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

nithiroj@nithiroj-Nitro-AN515-57  ~/modern-network-2025/lab6   main
```

Ansible-playbook change loopback ip address

```yaml
ect_Nokia_SR_Linux.pdf U        ! showifconfig.yml U        ! change_loopback_ip_address.yml U  ×        ! project.clab.yml

lab6 >  ! change_loopback_ip_address.yml > {} 0 > [] tasks > {} 4 > {} debug > abc var
  1    - name: change loopback ip address
  2      hosts: all
  3      become: yes
  4
  5      tasks:
  6      - name: show ifconfig before change ip address
  7        shell: ifconfig -a
  8        register: output
  9      - debug:
 10          var: output.stdout_lines
 11
 12      - name: change ip address
 13        shell: ifconfig lo 172.148.156.31 netmask 255.255.255.0
 14
 15      - name: show ifconfig after change ip address
 16        shell: ifconfig -a
 17        register: output
 18      - debug:
 19          var: output.stdout_lines
```

Change_loopback_ip_address.yml file

Nokiasrlinux show version

Nokiasrlinux show network-instance route-table all

```
--{ running }--[  ]--
A:admin@srl2# show platform
+-------------+----+-------------+-------------------+------------------------------------------+--------------------------+
| Module Type | ID | Admin State | Operational State |                   Model                  |        Last Change       |
+=============+====+=============+===================+==========================================+==========================+
| control     | A  | N/A         | up                | imm48-25g-sfp28+8-100g-qsfp28+2-10g-sfpp | 2026-02-11T16:35:59.933Z |
| linecard    | 1  | N/A         | up                | imm48-25g-sfp28+8-100g-qsfp28+2-10g-sfpp | 2026-02-11T16:36:05.730Z |
+-------------+----+-------------+-------------------+------------------------------------------+--------------------------+


--{ running }--[  ]--
A:admin@srl2# show interface
=========================================================================================================
ethernet-1/1 is up, speed 25G, type None
---------------------------------------------------------------------------------------------------------
mgmt0 is up, speed 1G, type None
  mgmt0.0 is up
    Network-instances:
      * Name: mgmt (ip-vrf)
    Encapsulation   : null
    Type            : None
    IPv4 addr   : 172.20.20.2/24 (dhcp, preferred)
    IPv6 addr   : 3fff:172:20:20::2/64 (dhcp, preferred)
    IPv6 addr   : fe80::42:acff:fe14:1402/64 (link-layer, preferred)
---------------------------------------------------------------------------------------------------------
=========================================================================================================
Summary
  0 loopback interfaces configured
  1 ethernet interfaces are up
  1 management interfaces are up
  1 subinterfaces are up
=========================================================================================================


--{ running }--[  ]--
A:admin@srl2#
```

nokiasrlinux showplatform & interface