



## 429887604 Huawei ENSP Important Command

Data Communication and Computer Network (Addis Ababa University)



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# Huawei eNSP Important Command

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## System view mode:

<Huawei>System-view

## Switch to previous mode:

[Huawei]Quit

## Save configuration:

<Huawei>save

## Current configuration:

[Huawei] display current-configuration

## Saved configuration:

[Huawei] display saved-configuration

## Assign IP Address:

[Huawei] interface GigabitEthernet x/x/x

[Huawei-GigabitEthernetx/x/x] ip address 10.1.1.1 24(255.255.255.0)

## Static Routing:

[Huawei] ip route-static [network] [subnet] [nexthop]

## Static Routing Load Balancing:

[Huawei] ip route-static [network] [subnet] [nexthop1]

[Huawei] ip route-static [network] [subnet] [nexthop2]

## Floating Static Routes:

[Huawei] ip route-static [network] [subnet] [nexthop1]

[Huawei] ip route-static [network] [subnet] [nexthop2] preference 100

## Default Routing:

[Huawei] ip route-static 0.0.0.0 0.0.0.0 [nexthop]

## RIP:

[Huawei] rip (Process ID)

[Huawei-rip-x] network (class full network)

➤ For version 2:

[Huawei-rip-x] version 2

## OSPF:

[Huawei] ospf (process ID)

[Huawei-ospf-x] area ID

[Huawei-ospf-1-area-x.x.x.x] network [network] [wild card mask]

## DHCP Interface Pool Configuration

[Huawei] dhcp enable

[Huawei-GigabitEthernetx/x/x] dhcp select interface

## Router name:

[Huawei] sysname RT-A

[RT-A]

## Router ip routing table:

[Huawei] display ip routing-table

## Display anything:

[Huawei] display \_\_\_\_\_

## Off Current terminal monitor:

<Huawei>undo terminal monitor (u t m)

[Huawei-GigabitEthernetx/x/x] dhcp server dns-list [x.x.x.x]

[Huawei-GigabitEthernetx/x/x] dhcp server excluded-ip-address [x.x.x.x]

[Huawei-GigabitEthernetx/x/x] dhcp server lease day [x]

## **DHCP Global Pool Configuration**

[Huawei] dhcp enable

[Huawei] ip pool [pool name]

[Huawei-ip-pool-pool name] network [x.x.x.x] mask [x]

[Huawei-ip-pool-pool name] gateway-list [x.x.x.x]

[Huawei-ip-pool-pool name] lease day [x]

[Huawei-GigabitEthernetx/x/x] dhcp select global

## **Creating VLANs**

[SWA] VLAN 10

[SWA] VLAN 20

or

[SWA] VLAN batch 10 20

## **Setting the Port Link Type**

[Switch] interface GigabitEthernet x/x/x

[Switch- GigabitEthernet x/x/x] port link-type access

[Switch- GigabitEthernet x/x/x] port link-type trunk

## **Assigning Ports to VLAN**

[Switch-GigabitEthernet x/x/x] port default vlan 10 (For Access Ports)

## **Forwarding over the Trunk**

[Switch-GigabitEthernet x/x/x] port trunk allow-pass vlan 10 20 30 (For Trunk Ports)

## **VLAN Routing using L3 Switch**

[Switch] interface Vlanif 10

[Switch-Vlanif10] ip address 192.168.1.1 24

[Switch] interface Vlanif 20

[Switch-Vlanif20] ip address 192.168.2.1 24

## **L2 Link Aggregation Configuration:**

[Switch] interface Eth-Trunk [Eth-Trunk interface number]

[Switch-Eth-Trunk x] interface GigabitEthernet x/x/x

[Switch- GigabitEthernet x/x/x] eth-trunk 1

## **L3 Link Aggregation Configuration:**

[RTA] interface eth-trunk [Eth-Trunk interface number]

[RTA-Eth-Trunk x] undo portswitch

[RTA-Eth-Trunk x] ip address 10.1.1.1 24

[RTA-Eth-Trunk x] quit

[RTA] interface GigabitEthernet x/x/x

[RTA- GigabitEthernet x/x/x] eth-trunk [Eth-Trunk interface number]