# **Huawei Router configuration:**

Console configuration <huawei>system-view [Huawei]sysname rt1 [rt1]user-interface console 0 [rt1-ui-console0]set authentication password cipher alamin [rt1-ui-console0]display this [rt1-ui-console0]quit  Telnet configuration [rt1]user-interface vty 0 4 [rt1-ui-vty0-4]authentication-mode password [rt1-ui-vty0-4]set authentication password cipher alamin [rt1-ui-vty0-4]quit</huawei>	To enter system view Set sysname To enter console mode # Set console password  ** TELNet is not Secure so use SSH. Same as describe in switch section.
Set Interface IP Address & Description [rt1]interface Ethernet0/0/0 [rt1-Ethernet0/0/0]description Connect_to_Routr_2 [rt1-Ethernet0/0/0]ip address 10.0.12.1 24 [rt1-Ethernet0/0/1]quit Optional: Set multiple ip address to an interface [rt1-Ethernet0/0/0]ip address 192.168.0.1 24 sub Static route & Default route [rt1]ip route-static 10.0.23.0 255.255.255.0 10.0.12.2 description routes_for_23_block [rt2]ip route-static 0.0.0.0 0.0.0.0 10.0.31.1	ip route-static ip-address {mask   mask- length} {nexthop-address   interface- type interface-number [nexthop- address]} [preference preference]
Backup route/ Floating route ip route-static 10.0.23.0 24 10.0.31.1 preference 80 description Backup_sta tic route  [rt2]ip route-static 0.0.0.0 0.0.0.0 10.0.12.1 preference 90 Check & verification	Preference is like Administrative distance. Higher the preference value, lower the preference.  Default preference for static route in huawei is 60  Backup static route for default route.
[rt2] display ip routing-table	

OSPF Configuration	
ospf [process-id   router-id router-id] [rt1]ospf 1 router-id 1.1.1.1 [rt1-ospf-1]area 0 [rt1-ospf-1-area-0.0.0.0]network 10.0.0.0 0.0.0.255 [rt1-ospf-1-area-0.0.0.0]network 1.1.1.1 0.0.0.0 [rt1-ospf-1-area-0.0.0.0]display this [rt1-ospf-1]area 1 [rt1-ospf-1-area-0.0.0.1]network 10.0.1.0 0.0.0.255 [rt1-ospf-1-area-0.0.0.1]display this [rt1-ospf-1-area-0.0.0.1]display this [rt1-ospf-1-area-0.0.0.1]display this	To enter OSPF router configuration mode Set ospf process id and router ID Set area parameter Specify the area for interfaces on a network segment
OSPF Check and Verification [rt1]display ip routing-table [rt1]display ip routing-table protocol ospf [rt1]display ospf peer [rt1]display ospf lsdb summary [rt1]display ospf lsdb [rt1]display ospf routing [rt1]display ospf 1 routing Optional	Set OSPF cost, By default cost of an
<pre>[rt1-GigabitEthernet0/0/0]ospf cost 100 [rt1-GigabitEthernet0/0/0]ospf authentication- mode simple plain alamin [rt1-GigabitEthernet0/0/0]ospf network-type p2p</pre>	interface is calculated as 10 <sup>8</sup> /BW bps Set OSPF Packet Header Authentication Interface Authentication
<pre>ospf Stub Area configuration: [rt1]ospf [rt1-ospf-1]area 1 [rt1-ospf-1-area-0.0.0.1]stub [rt1-ospf-1-area-0.0.0.1]stub no-summary [rt1-ospf-1-area-0.0.0.1]quit</pre>	To set stub area To set area 1 as a totally stub area
NSSA area Configuration [rt2]ospf [rt2-ospf-1]area 1 [rt2-ospf-1-area-0.0.0.2]nssa [rt2-ospf-1-area-0.0.0.2]nssa no-summary  Import External route	To set NSSA Area Totally NSSA Area
<pre>ip route-static 192.168.1.0 255.255.255.0 NULL 0 [rtl-ospf-1]import-route static</pre>	Considering router1 has static route  Import static route to OSPF
<pre>Import default route [rt1]ip route-static 0.0.0.0 0.0.0.0 NULL 0 [rt1]ospf 1 [rt1-ospf-1]default-route-advertise</pre>	
<pre>[rt1-ospf-1]default-route-advertise always Check &amp; Verification [rt1]display ospf lsdb ase 0.0.0.0</pre>	If static default route not exist.

DHCP Server configuration	
DHCP Global Address Pool-based service model	
configuration	
<pre>ip pool ip-pool-name [rt1]ip pool depertment_tech</pre>	Command Syntax. Create POOL
<pre>[rt1-ip-pool-depertment_tech] quit [rt1] ip pool depertment_tech [rt1-ip-pool-depertment_tech] network 192.168.1.0</pre>	Enter the specific pool Set network
<pre>mask 255.255.255.0 [rt1-ip-pool-depertment_tech]gateway-list 192.168.1.1</pre>	Set gateway list
<pre>[rt1-ip-pool-depertment_tech]lease day 1 hour 2 [rt1-ip-pool-depertment_tech]dns-list 8.8.8.8 [rt1-ip-pool-depertment_tech]excluded-ip-address 192.168.1.200 192.168.1.254 [rt1-ip-pool-depertment_tech]quit</pre>	Set lease time Set DNS list Set excluded ip list start IP and End IP
Interface Configuration:	
<pre>[rt1]dhcp enable [rt1]interface Ethernet 0/0/0 [rt1-Ethernet0/0/0]ip address 192.168.1.1 24 [rt1-Ethernet0/0/0]dhcp select global [rt1-Ethernet0/0/0]quit</pre>	Enable DHCP Enter the interface Set IP address (Gateway address) Set global address pool-based model
DHCP Relay agent configuration	
<pre>[rt3]interface Ethernet 0/0/0 [rt3-Ethernet0/0/0]ip address 172.16.1.1 24 [rt3-Ethernet0/0/0]dhcp select relay [rt3-Ethernet0/0/0]dhcp relay server-ip 192.168.1.1 [rt3-Ethernet0/0/0]quit</pre>	Enter the interface mode.  Set IP address Set DHCP relay Set DHCP server IP, Where DHCP pool has already been created.
DHCP Check & Verification:	To check IP those are already being
<pre>[rt1]display ip pool name depertment_tech used</pre>	used.

## ACL & NAT

The range of possible ACL numbers is different depending on ACL type:

- Basic—2000 to 2999
- Advanced—3000 to 3999
- Layer-2—4000 to 4999
- User-defined—5000 to 5999

## Basic ACL

rule [rule-id] {deny|permit} [source{source-address source-wildcard|any}|fragment|logging|time-range time-name]
[rt1]acl 2000
[rt1-acl-basic-2100]description DENY\_Network\_1
[rt1-acl-basic-2000]rule deny source 192.168.1.100 0.0.0.0
[rt1-acl-basic-2000]quit
[rt1]interface GigabitEthernet 0/0/0
[rt1-GigabitEthernet0/0/0]traffic-filter inbound acl 2000

## Check

[rt1]display acl 2000

#### Advance ACL

rule [rule-id] {deny|permit} ip [destination {destinationaddress destinationwildcard|any}] [source {source-address
source-wildcard|any}]

[sw1]acl name block\_net [sw1-acl-adv-block\_net]rule 0 permit ip destination 192.168.100.100 0.0.0.0 source 172.16.100.100 0.0.0.0 [sw1-acl-adv-block net]quit

## Interface configuration

[sw1]interface GigabitEthernet 0/0/2 [sw1-GigabitEthernet0/0/2]traffic-filter inbound acl name block\_net [sw1-GigabitEthernet0/0/2]quits

#### Check ACL

[sw1]display acl name block net

## \*\* For Telnet Security

[rt1]user-interface vty 0 4
[rt1-ui-vty0-4]acl 2000 inbound
[rt1-ui-vty0-4]quit

#### Static NAT:

[Router] interface gigabitethernet 2/0/0 [Router-GigabitEthernet2/0/0] nat static global 202.10.1.3 inside 192.168.0.2 [Router-GigabitEthernet2/0/0] quit

#### Dynamic NAT

[Huawei-Router] acl number 2222 [Huawei-Router-acl-basic-2222] rule 5 permit source 10.10.10.0 0.0.0.255 [Huawei-Router-acl-basic-2222] quit

[Huawei-Router]nat address-group 1 200.200.200.5 200.200.200.10

[Huawei-Router-GigabitEthernet0/0/1]nat outbound 2222 address-group 1 no-pat

• In Cisco we use, "overload" command for PAT. If you do not use this keyword then, it is becoming pure Dynamic NAT. This is reverse in Huawei.

Ref: 3

LAN Interface IP Block

WAN IP range

at the WAN Interface

BGP Routing	
Basic BGP Configuration	
[rt1]bgp 64512	
[rt1-bgp]peer 10.0.2.2 as-number 64512	Set peer AS number
[rt1-bgp]peer 10.0.2.2 connect-interface	Remote interface
LoopBack 0	
[rt1-bgp] [rt1-bgp]network 10.1.1.1	To advertise Network.
255.255.255.0	
[rt1-bgp]peer 10.0.14.2 ip-prefix	To filter the route.
<pre>pref_detail_control export</pre>	
[rt1-bgp]quit	Exit form BGP configuration mode.
[rt1]ip ip-prefix pref_detail_control	To make Prefix list.
index 10 permit 10.1.1.1 32 less-equal 32	
[rt2-bgp]display bgp routing-table	To check BGP.

## BGP Configuration Flowchart:

- Start a BGP Process.
- Configure a BGP Peer.
- Configure BGP to import Routes.
- Configure BGP Attribute.
- Configure BGP Advertisement-Control. /BGP Filter.
- Check & Verify BGP Configuration.

Start BGP Process	
<rt8>system-view</rt8>	The system view is displayed.
[rt8]bgp 200	A BGP process is enabled.
[rt8-bgp]router-id 8.8.8.8	(Optional) Configuring or changing the router ID of BGP results in the reset of the BGP peer relationship between routers
Configuring a BGP Peer.	
[rt8-bgp]peer 192.168.0.1 as-number 100	Set Peer IP address and Peer AS-Number.
[rt8-bgp]peer 192.168.0.1	
description BGP_with_R7	(Optional)Set Description
<pre>[rt8-bgp]peer 192.168.0.1 ebgp-max- hop 2</pre>	EBGP .There must be a directly connected physical link between EBGP peers. If this requirement is not met, you can use the peer ebgp-max-hop command to configure EBGP peers to establish TCP connections through multiple hops.
[rt8-bgp]peer 192.168.0.1 connect-interface GigabitEthernet 0/0/0	(Optional). To increase the stability and reliability of BGP connections, we can configure the local interface as the loopback interface for BGP connections.
Check & Verification.	
[rt8]display bgp peer	
[rt8]display bgp peer verbose	
[rt8]display bgp peer 192.168.0.1	
log-info	

## Configuring BGP Import route:

BGP itself cannot discover routes

BGP routes are imported in either of the following modes:

- The **import** command imports routes based on protocol types, such as RIP routes, OSPF routes, Intermediate System to Intermediate System (IS-IS) routes, static routes, or direct routes.
- The **network** command imports a route with the specified prefix and mask to the BGP routing table, which is more precise than the previous mode.

<pre>[rt8-bgp]import-route ospf 1 med 1 [rt8-bgp]import-route static</pre>	import-route protocol [ process-id ] [ med med   route-policy route-policyname ] Import route from other protocols.
[rt8-bgp]default-route imported	(Optional). To import default route
[rt8-bgp]network 192.168.0.0 24	network ipv4-address [ mask   mask-length ] [ route-policy route-policyname ] BGP is configured to import local routes

#### **Configuring BGP Route Attributes**

Configuring route attributes can change route selection results.
 BGP has many route attributes. You can change route selection results by configuring attributes for routes.

#### **BGP** priority

Setting the BGP priority can control route selection between BGP routes and routes of other routing protocols.

#### **Preferred values**

After preferred values are set for BGP routes, the route with the greatest value is preferred when multiple routes to the same destination exist in the BGP routing table.

#### Local Pref

The Local\_Pref attribute has the same function as the preferred value of a route. If both of them are configured for a BGP route, the preferred value takes precedence over the Local\_Pref attribute.

#### **MED**

The MED attribute is used to determine the optimal route for traffic that enters an AS. The route with the smallest MED value is selected as the optimal route if the other attributes of the routes are the same.

## Next\_Hop

BGP route selection can be controlled by changing Next\_Hop attributes for routes.

#### AS Path

The AS\_Path attribute is used to prevent rooting loops and control route selection.

<pre>Setting the BGP Priority: Syntax: preference { external internal local   route-policy route-policy-name }  [rt8-bgp]preference 5 2 1</pre>	By default, the priority of EBGP external routes, IBGP internal routes, and BGP local routes is 255.
	5 is EBGP preference value, 2 for IBGP,1 for locally generated route.
Setting the Preferred value for peer: Syntax: peer { group-name   ipv4-address } preferred-value value	
[rt8-bgp]peer 192.168.0.1 preferred-value 1	Set the peer preferred-value.  By default, the original preferred value of a route learned from a peer is 0

Set local pref:	The Local_Pref attribute is used to determine
Syntax: default local-preference local-	the optimal route for the traffic that leaves an
preference	AS.
[rt8-bgp]default local-preference 105	By default, the local preference of BGP is 100.
Configuring MED	After the MED attributes of routes are set,
Syntax: default med med	an EBGP peer selects the route with the smallest MED value for the traffic that enters an AS if the other attributes of the routes are
<pre>[rt8-bgp]default med 120</pre>	the same.  The <b>default med</b> command is valid only for routes imported using the <b>import-route</b> command and BGP summarized routes on the local device.
<pre>[rt8-bgp]compare-different-as-med</pre>	The MED values of routes from different ASs are compared.
	By default, the BGP device compares the MED values of only routes from different peers in the same AS
Setting Next_hop	By default, a device does not change the
Syntax: <b>peer</b> { <i>ipv4-address</i>   <i>group-name</i> } <b>next-hop-local</b>	next hop address of a route learned from
[rt8-bgp]peer 192.168.0.1 next-hop-local	an EBGP peer before forwarding the route
	to IBGP peers. The next hop address of a
	route advertised by an EBGP peer to this
	device is the address of the EBGP peer.
	It relates to ASBR.
Setting AS_Path	In most cases, a BGP router checks the
Syntax: peer { ipv4-address   group-name } allow-as-	AS_Path attribute of a route received from
loop [ number ]	a peer. If the local AS number is carried
[rt8-bgp]peer 192.168.0.1 allow-as-loop	by the route, the BGP router discards this
	route to avoid routing loops.
Setting Community Attribute:	BGP is configured to advertise the
<pre>peer { ipv4-address   group-name }</pre>	standard community attribute to a peer or
advertise-community	a peer group.
<pre>peer { ipv4-address   group-name }</pre>	By default, the community attribute is not
advertise-ext-community	advertised to any peer or peer group.
<pre>peer { ipv4-address   group-name }</pre>	So we neet to set route policy.
route-policy route-policy-name export	
<pre>[rt8-bgp]peer 192.168.0.1 advertise- community</pre>	

BGP Filter:	
There are usually a large number of routes in a BGP routing table.	
BGP can filter routes to be advertised to a specific peer or peer gro	oup.
ACL, IP-Prefix, AS_Path, Community, Extcommunity, Route-Police	cv
Set ACL:	
[rt7]acl 2000	Set Basic ACL
	Set Basic ACL
rule 0 permit source 172.16.0.192 0.0.0.64	
[rt7-acl-basic-2000]quit	
[rt7-bgp] bgp 100	
[rt7-bgp]peer 192.168.0.2 filter-policy	Filter Using ACL
2000 export	
IP-Prefix:	
Syntax:	Set IP-Prefix list
<pre>ip ip-prefix ip-prefix-name [ index index-number ] {</pre>	Set IF-FIEIIX list
permit   deny } ipaddress mask-length [ greater-	
equal greater-equal-value ] [ less-equal less-equal-	
value ]	
<pre>[rt7]ip ip-prefix outgoing_traffic_1 index 1 permit</pre>	
172.16.0.192 26 less-equal 26	
[rt7-bgp] bgp 100	
[rt7-bgp]peer 192.168.0.2 ip-prefix	
outgoing_traffic-1 export	
AS-Path filter	AS path configuration
Syntax: ip as-path-filter { as-path-filter-	
<pre>number   as-path-filter-name }{ permit   deny }</pre>	
regular-expression	Filter using AS
<pre>[rt7]ip as-path-filter as_1 permit 6551*</pre>	
rt7]bgp 100	
<pre>[rt7-bgp]peer 192.168.0.2 as-path-filter as_1</pre>	
export	
Community filter	BGP communities allow routers
[RouterA] route-policy comm policy permit node	to tag routes with an indicator
10	(the community) and allow
[RouterA-route-policy] apply community no-	other routers to make decisions
export	based on that tag.
[RouterA-route-policy] quit	Communities are not restricted
1 Forto Portoll dare	to one network or one
[RouterA] bgp 10	autonomous system, and they
[RouterA-bgp] ipv4-family unicast	have no physical boundaries
[RouterA-bgp-af-ipv4] peer 200.1.2.2 route-	nave no physical boundaries
policy comm policy export	
[RouterA-bgp-af-ipv4] peer 200.1.2.2 advertise-	
community	
Route Policy:	
route-policy route-policy-name { permit   deny }	
node node	
[rt7]route-policy policy 1 permit node 15	
[10.]10000 policy policy_1 permit hode 10	<u> </u>

[rt7-route-policy]if-match ip-prefix
outgoing\_traffic\_1
[rt7-route-policy]apply as-path 300 additive

## BGP Check & Verification & reset/refresh

```
[rt7]display bgp routing-table
[rt7]display ip community-filter
[rt7]display bgp routing-table as-path-
filter as_1
[rt7]display bgp peer
[rt7]display bgp network
[rt7]display bgp peer verbose
[rt7]display bgp routing-table different-
origin-as
[rt7]display acl 2000
[rt7]display route-policy policy 1
```

Refreshing BGP RoutesWhen BGP routing policy changes, it is required to re-compute associated routeinformation

<rt7>refresh bgp all export

After the user changes BGP policy or protocol configuration, they must cut off thecurrent connection so as to enable the new configuration.

<rt7>reset bgp 192.168.0.2 flap-info
<rt7>reset bgp all

Reset BGP-peer address Clear all connections of BGP

## MPLS BGP VPN Basic Configuration:

The Multiprotocol Label Switching (MPLS) protocol is used on Internet Protocol (IP) backbone networks. MPLS uses connection-oriented label switching on connectionless IP networks

"Multiprotocol" in MPLS means that multiple network protocols are supported

MPLS is widely used for virtual private network (VPN), traffic engineering (TE), and quality of service (QoS)

LSR: network devices that swap MPLS labels and forward packets are label switching routers (LSRs), which form an MPLS domain LSRs that reside at the edge of the MPLS domain and connect to other networks are called label edge routers (LERs), and LSRs within the MPLS domain are core LSRs

A path along which IP packets are transmitted on an MPLS network is called a label switched path (LSP)

#### LDP

The Label Distribution Protocol (LDP) is designed for distributing labels. It sets up an LSP hop by hop according to Interior Gateway Protocol (IGP) and Border Gateway Protocol (BGP) routing information.

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#### MP-BGP

MP-BGP is an extension to BGP and allocates labels to MPLS VPN routes and inter-AS VPN routes.

MPLS labels are distributed from downstream LSRs to upstream LSRs.

## MPLS Forwarding Process:

Label operations involved in MPLS packet forwarding include push, swap, and pop

**CE(Customer edge):** A device that is deployed at the edge of a customer.

**PE(Provider edge):** A device at the edge of a carrier network, directly connected to a CE device.

**P(Provider):** It is a backbone device on carrier network.

**RD** (Route Distinguisher): An RD is a VPN route identifier consisting of eight bytes. On the same PE device, the RD for each VPN must be unique.

• To solve conflict routes during route advertisement RD is used.

**VRF**(Virtual Routing and Forwarding) is used when you want separation in routing table with the router.

• To solve local route conflict. [ref 6]

Why BGP is widely used for MPLS VPN.

- BGP is the unique routing protocol that supports a large number of VPN routes.
- BGP packets use TLV structure, which facilitates expansion.
- BGP can transmit any additional information attached to route information as optional attributes to BGP neighbors.

MPLS Configuration	
MPLS Configuration:	-8a. ac-c
[rt2]mpls lsr-id 2.2.2.2	Specify LSR(Label Switched Router) identifier
[rt2]mpls	Spoons actions a with the state of the state
_	Configure LSP trigger policy
[rt2-mpls]lsp-trigger all	
[rt2-mpls]quit	
MPLS interface configuration:	
[rt2]mpls ldp	
[rt2-mpls-ldp]quit	
[rt2-GigabitEthernet0/0/1]mpls	Specify MPLS(Multiprotocol Label
	Switching)configurationinformation
	to get I shal Distribution Dustoss I/I DD)
[rt2-GigabitEthernet0/0/1]mpls ldp	to set Label Distribution Protocol(LDP)
[rt2-GigabitEthernet0/0/1]quit	
MPLS VPN configure: [rt2]ip vpn-instance vpn1	To get VDN instance name
[[[[]]]] vpn-instance vpni	To set VPN instance name
[rt2-vpn-instance-vpn1]route-	Set moute distinguisher (DD) of assesset Dr. A femily
distinguisher 100:1	Set route distinguisher (RD) of current IPv4-family
distinguisher 100.1	for VPN instance
[rt2-vpn-instance-vpn1-afipv4]vpn-	Cot VIDN Torget for surrent VIDN instance Doth
target 100:1 both	Set VPN-Target for current VPN instance, Both
	means import & export
[rt2-vpn-instance-vpn1-afipv4]quit	
[rt2-vpn-instance-vpn1]quit	
Bind Interfaces to VPN-Instances	
[rt2-GigabitEthernet0/0/0]ip	CE interface of PE router, After this command we
binding vpn-instance vpn1	need to configure ip address
<pre>[rt2-GigabitEthernet0/0/0] ip</pre>	G . TD 4.11
address 10.1.1.1 255.255.255.0	Set IP Address
configure MP-BGP	
[rt2]bgp 100	
[rt2-bgp]ipv4-family vpnv4	Specify VPNv4 address family
	, · ·
[rt2-bgp-af-vpnv4]peer 3.3.3.3	BGP peer PE to P/PE to PE
enable	-
[rt2-bgp-af-vpnv4]quit	
[rt2-bgp]ipv4-family vpn-instance	BGP for CE to PE
vpn1	
[rt2-bgp-vpn1]peer 10.1.1.2 as-	BGP PE to CE
number 64520	
[rt2-bgp-vpn1]import-route direct	Import route
[rt2-bgp-vpn1]quit	Exit
[rt2-bgp]display bgp vpnv4 vpn-instance vpn1 peer	[rt1]ping -a 100.0.0.1 100.0.1.1
[rt2-bgp]display bgp vpnv4 all peer	[rt1]tracert -a 100.0.0.1 100.0.1.1
[rt2-bgp]display ip routing-table vpn-instance vpn1	Ping for CE to CE.

# GRE Tunnel

```
system-view
```

[Huawei-Router1] interface Tunnel 1/1/1

[Huawei-Router1-Tunnel1/1/1] ip address 10.0.0.1 24

[Huawei-Router1-Tunnel1/1/1] tunnel-protocol gre

[Huawei-Router1-Tunnel1/1/1] source 100.100.100.1 24

[Huawei-Router1-Tunnel1/1/1] destination 200.200.200.1 24

[Huawei-Router1-Tunnel1/1/1] quit

configure Router 2. We will configure the same things in Router 2, only the IP addresses will change.

#### system-view

[Huawei-Router2] interface Tunnel 1/1/1

[Huawei-Router2-Tunnel1/1/1] ip address 10.0.0.2 24

[Huawei-Router2-Tunnel1/1/1] tunnel-protocol gre

[Huawei-Router2-Tunnel1/1/1] source 200.200.200.1 24

[Huawei-Router2-Tunnel1/1/1] destination 100.100.100.1 24

[Huawei-Router2-Tunnel1/1/1] quit

### **Static Routes**

After Tunnel configuration, we need to tell the routes of indirectly connected networks to the routers. Here, we will do it with Static Routes.

```
[Huawei-Router1] ip route-static 172.16.2.0 24 Tunnel 1/1/1 [Huawei-Router2] ip route-static 172.16.1.0 24 Tunnel 1/1/1
```

## Verification

To verify Hawei GRE Tunnel, we can use "display interface Tunnel" and "display ip routing-table"

[Huawei-Router1] display interface Tunnel

# SNMP Configuration

```
[rt1]snmp-agent
```

[rt1]snmp-agent sys-info contact admin:101928

[rt1]snmp-agent sys-info location bangladesh

[rt1]snmp-agent sys-info version v3

[rt1]snmp-agent trap source GigabitEthernet 0/0/0

[rt1]snmp-agent trap enable

[rt1]snmp-agent target-host trap address udp-domain
192.168.1.1 source GigabitEthernet 0/0/0 udp-port 162
public-net params securityname 1

[rt1]snmp-agent local-engineid 982AF097DE8
[rt1]snmp-agent community read monitor\_read\_only
[rt1]snmp-agent community write monitor\_read\_write

[rt1]display snmp-agent community
[rt1]display snmp-agent sys-info

REF: 13

#### **References:**

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- 3. [ref 3] <a href="https://ipcisco.com/nat-configuration-on-huawei-routers/">https://ipcisco.com/nat-configuration-on-huawei-routers/</a>
- 4. HUAWEI NetEngine80E/40E Router V600R001C00 Configuration Guide IP Routing
- 5. HUAWEI NetEngine80E/40E Router V600R001C00 Configuration Guide MPLS
- 6. [ref 6] https://community.cisco.com/t5/routing/why-we-use-vrf-and-tell-me-for-how-many-purpose-it-use-please/td-p/2161205

\*\*Software : <u>eNSP V100R002C00B500</u>

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