Infra: 192.168.121.118/24

agent: 192.168.121.42/24

vxlan: 192.168.121.241/24

wg-client: 192.168.121.195/24

1. Update the system
   1. sudo apt update
   2. sudo apt install wireguard -y
2. Generate the secret key for wg-client
   1. sk: WH5mpuSLg3sRX/6DG+qVx2/VuwLu1snW3NvNkdP0QnE=
   2. pk: 3bpkrgzBBWQx9CaiqdbACsbud2iZ2I8ru5QHlKLtQn8=
3. Start the wg-agent
   1. RUST\_LOG=debug ./wg-agent --etcd [http://192.168.121.118:12379](http://192.168.121.153:12379)
4. create the ns:
   1. enable the ip forward: sysctl -w net.ipv4.ip\_forward=1
   2. cd /home/jinjun/ws/wg-agent/scripts/mini\_env
   3. ./one\_user.sh create\_ns
   4. check the wg setting in wg-agent:
      1. root@wg-agent:/home/vagrant# wg show

interface: wg\_100

public key: 2dZgHj/Md9Gy7+ChJWpGwNZ3UaVh+ywaCoQ7vY68Xw4=

private key: (hidden)

listening port: 51233

1. Create the wg interface in wg-client:

ip add add 10.100.0.2/32 dev wg100

ip link del wg0

ip link add wg100 type wireguard

ip add add 10.100.0.1/32 dev wg100

ip add add 172.1.1.0/24 via 10.100.0.1

wg set wg100 private-key sk

ip link set wg100 up

wg set wg100 peer 2dZgHj/Md9Gy7+ChJWpGwNZ3UaVh+ywaCoQ7vY68Xw4= allowed-ips 10.100.0.1/32,172.1.1.0/24 endpoint 192.168.121.42:51233

endpoint 192.168.121.102:51233

1. create the user:
   1. cd /home/jinjun/ws/wg-agent/scripts/mini\_env
   2. ./one\_user.sh create\_user
2. test the link for client and the wg-agent:
   1. ping 10.100.0.1 // Should be OK now
3. Create the vxlan interface:
   1. ip link add dev vxlan\_1043 type vxlan id 1043 dstport 8472 remote 192.168.121.42
   2. ip link set dev vxlan\_1043 up
   3. ip addr add 172.1.1.1/24 dev vxlan\_1043
   4. ip addr add 10.100.0.1/32 via 172.1.1.2
   5. ip addr add 10.100.0.2/32 via 172.1.1.2
   6. ping 172.1.1.2