

## MODULE A – TROUBLESHOOTING

Devices roles notes:

### Local user for all devices

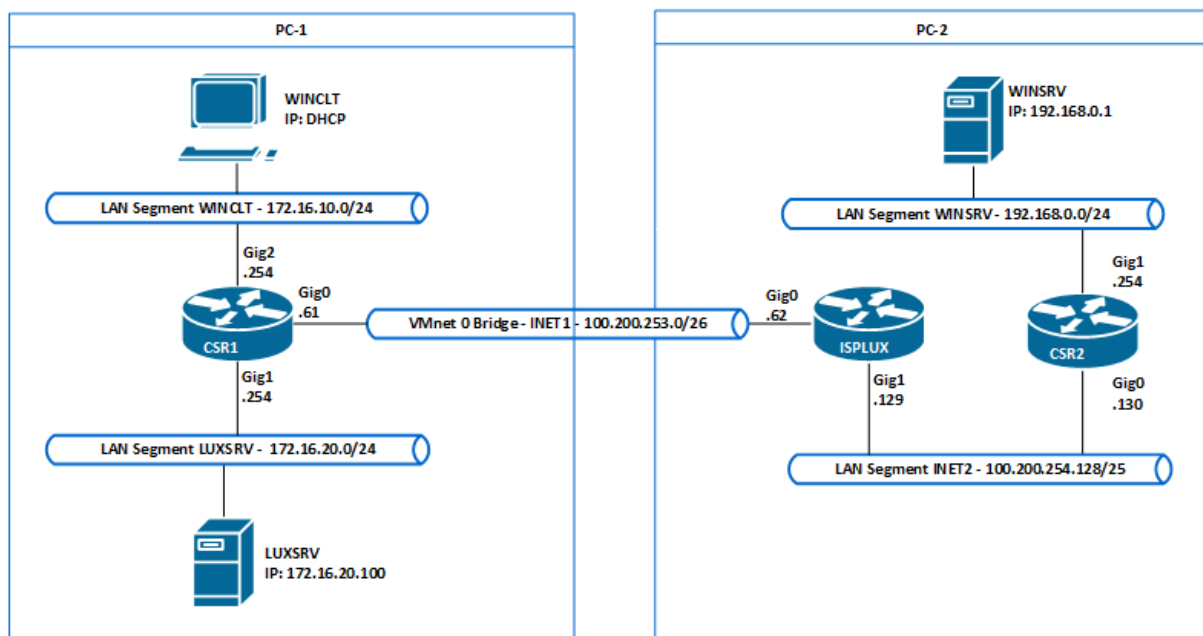
itnsa with password Skills39

Linux root password: Skills39

Windows Administrator password: Skills39

Active Directory users password: P@ssw0rd

## TOPOLOGY



### ISPLUX

IPv4 forward enabled.

For simulating internet.

### DNS Server

Authoritative for indonesia.net, www.indonesia.net

### WEBSERVER (Apache2)

Web indonesia.net and [www.indonesia.net](http://www.indonesia.net)

## **WINCLT**

Joined domain to WINSRV (winselekda.id).

## **CSR1**

Default route to LUXISP.

### **TUNNEL**

- IP: 1.2.3.1/30
- Mode: GRE

### **IPSEC for TUNNEL**

- **Phase 1 parameters:**  
Hash – MD5  
Encryption – AES-128  
DH group – 5  
Authentication – pre-shared key cisco123
- **Phase 2 parameters:**  
Protocol – ESP  
Encryption – AES-128  
Hash – MD5

### **DHCP Relay**

- DHCP Relay to LUXSRV.

### **Routing EIGRP**

- Advertise network WINSRV through the tunnel.

## **CSR2**

Default route to LUXISP.

### **TUNNEL**

- IP: 1.2.3.2/30
- Mode: GRE

### **IPSEC for TUNNEL**

- **Phase 1 parameters:**  
Hash – MD5  
Encryption – AES-128  
DH group – 5  
Authentication – pre-shared key cisco123
- **Phase 2 parameters:**  
Protocol – ESP  
Encryption – AES-128

Hash – MD5

### **Routing EIGRP**

- Advertise network LUXSRV through the tunnel.

### **AAA RADIUS group SELEKDA**

- Server name WINSRV configured with IP 192.168.0.254 and key Skills39 and port 1812 for auth.
- AAA list Active Directory using group SELEKDA and local users.
- Applied to VTY lines using SSH.

### **WINSRV**

#### **Active Directory**

- Domain: winselekda.id
- Active Directory provisioned with users and home folders.

### **NPS Configuration**

- Configured on port 1812 for authentication.
- RADIUS clients configured for CSR2 (192.168.0.254) with shared secret Skills39.
- Policy IT Support: Grant access with AV-Pair (shell:priv-lvl=15) for group IT Support and PAP authentication protocol.

### **LUXSRV**

#### **DHCP**

- IP DHCP pool for WINCLT with network 172.16.10.0/24, default-router 172.16.10.1, DNS server 100.200.253.62.

#### **FTP**

- Jailed to /home/[username].
- Authenticated to WINSRV Active Directory.