**MODULE A – TROUBLESHOOTING**

Devices roles notes:

**Local user for all devices**

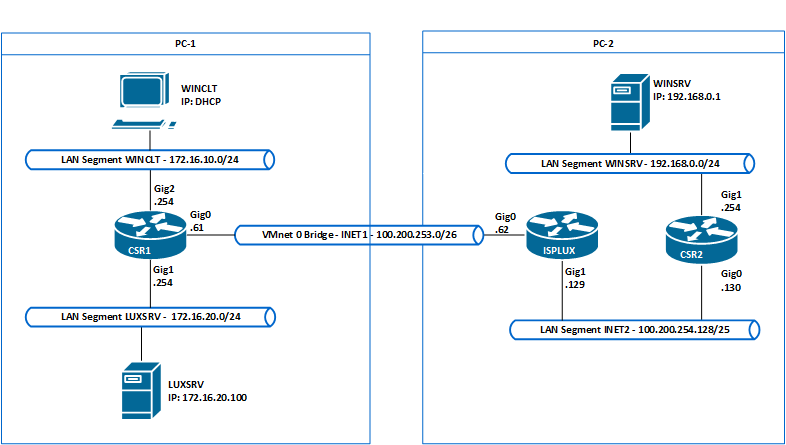
itnsa with password Skills39

Linux root password: Skills39

Windows Administrator password: Skills39

Active Directory users password: P@ssw0rd

**TOPOLOGY**

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**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.