

LAPORAN PROGRES 2

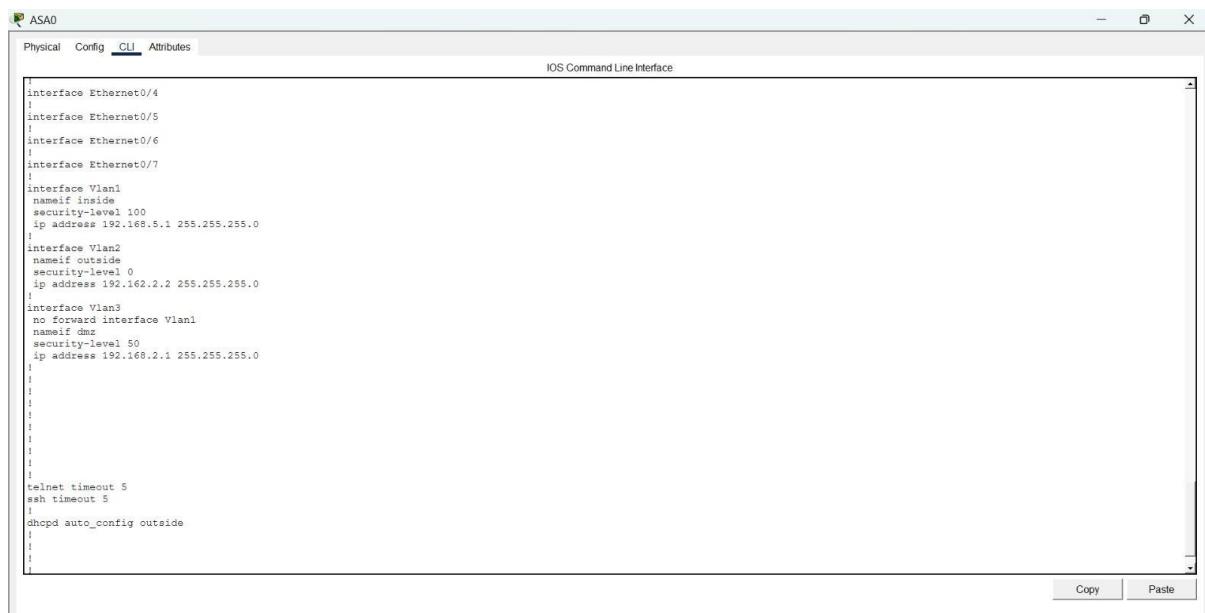
Judul Proyek 1 : Implementasi DMZ dan Firewall pada Cisco Packet Tracer

Deskripsi : Membangun Jaringan Dengan 3 Zona: Internal, DMZ, Dan Internet. Server Web Ditempatkan Di DMZ, Dan Firewall/Router Mengatur Rule Akses.

Tujuan : Memahami konsep segmentasi jaringan dan perlindungan layanan publik melalui DMZ.

Target Progres 2 : Konfigurasi Router dan VLAN

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```
ASA0
Physical Config CLI Attributes
IOS Command Line Interface

!
interface Ethernet0/4
!
interface Ethernet0/5
!
interface Ethernet0/6
!
interface Ethernet0/7
!
interface Vlan1
    nameif inside
    security-level 100
    ip address 192.168.5.1 255.255.255.0
!
interface Vlan2
    nameif outside
    security-level 0
    ip address 192.162.2.2 255.255.255.0
!
interface Vlan3
    no forward interface Vlan1
    nameif dmz
    security-level 50
    ip address 192.168.2.1 255.255.255.0
!
!
!
!
!
!
!
!
telnet timeout 5
ssh timeout 5
!
dhcpd auto_config outside
!
```

Gambar 2. Konfigurasi Router dan VLAN

```
Router# Physical Config CLI Attributes

Physical Config CLI Attributes

Router>export@Cisco.com.com

Cisco CISCO1941/K9 (revision 1.0) with 491520K/32768K bytes of memory.
Processor board ID FTX152400KS
2 FastEthernet interfaces
2 Low-speed serial(Async) network interface(s)
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)

Press RETURN to get started!

Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#host R1
R1(config)#int gig0/0
R1(config-if)#ip add 192.162.2.1 255.255.255.0
R1(config-if)#no sh

R1(config-if)#
%LINK-3-CHANGED: Interface Gigabitethernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Gigabitethernet0/0, changed state to up

R1(config-if)*#*
R1(config-if)#int se0/1/0
R1(config-if)#ip add 10.1.1.1 255.0.0.0
R1(config-if)#do sh
sh
% Incomplete command.
R1(config-if)#no sh

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
R1(config-if)*#*
R1(config-if)#
Building configuration...
[OK]
[RUN]
R1(config)#

IOS Command Line Interface
```

Gambar 3. Konfigurasi Router dan VLAN



Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
255K bytes of non-volatile configuration memory.  
249856K bytes of ATA System CompactFlash 0 (Read/Write)  
Press RETURN to get started!
```

```
Router>en  
Router#conf t  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#host R2  
R2(config)#int gig0/0  
R2(config-if)#ip add 172.16.0.1 255.255.0.0  
R2(config-if)#no sh  
  
R2(config-if)#  
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up  
ex  
R2(config)#ex  
R2#  
%SYS-5-CONFIG_I: Configured from console by console  
  
R2#  
R2#  
R2#  
R2#ex  
  
R2 con0 is now available
```

Gambar 4. Konfigurasi Router dan VLAN

Dari tiga gambar diatas, Pada tahap ini dilakukan konfigurasi routing dan pembagian VLAN pada perangkat firewall ASA serta dua router yang ada di topologi. **Firewall ASA** dikonfigurasi memiliki tiga interface: inside (192.168.5.1/24), dmz (192.168.2.1/24), dan outside (192.162.2.2/24) untuk memisahkan zona internal, DMZ, dan koneksi ke router luar. Dua router lainnya dikonfigurasi dengan IP gateway pada masing-masing jaringan, yaitu router kiri menangani jaringan internal 192.168.5.0/24 dan router kanan menangani jaringan 172.16.3.0/16 serta jalur antar-router (10.1.1.0/8 dan 10.2.2.0/8). Dengan konfigurasi ini, seluruh perangkat kini sudah terhubung melalui routing dasar, dan jalur antar-zona (inside–DMZ–outside) sudah terbentuk sehingga siap digunakan untuk tahap berikutnya yaitu deploy server dan firewall rule.