

KABLOSUZ ERİŞİM NOKTASI (WAP) ATÖLYESİ

ATÖLYENİN HEDEFİ:

Bir WAP kurmayı öğrenmeniz.

ATÖLYENİN AMACI:

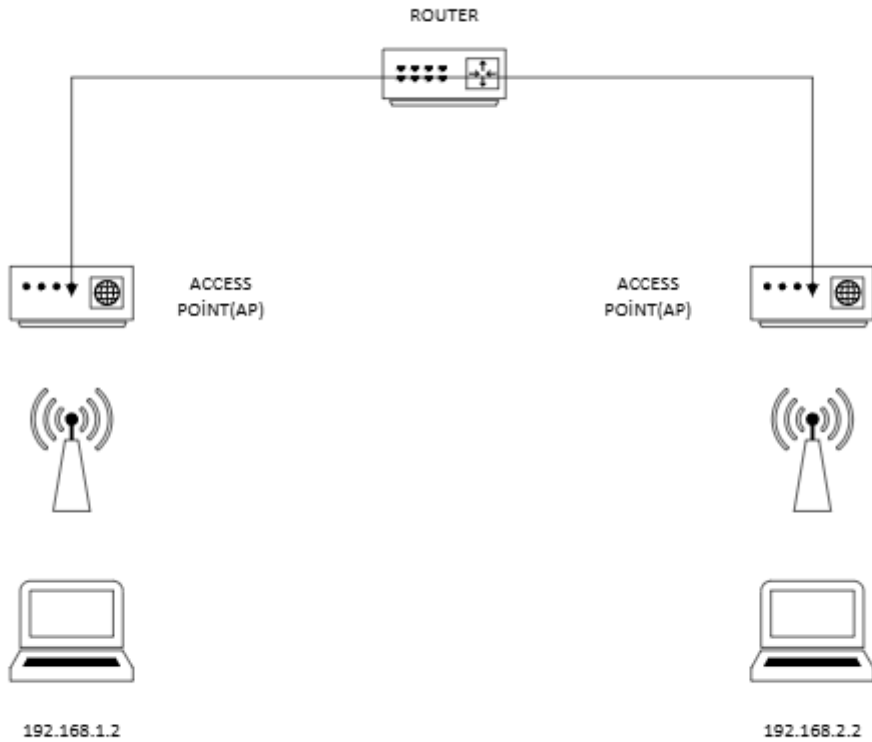
WAP'ler (Kablosuz Erişim Noktaları) her yerde bulunur ve bir ağ mühendisi olarak işinizin bir parçası olarak bunları kurmanız büyük olasılıkla gerekecektir. Bu laboratuvar temel konuları ele alacaktır; kablosuz güvenliği ise bu kılavuzun ilerleyen bölümlerinde incelenecektir.

ATÖLYE ARACI:

Cisco Packet Tracer

ATÖLYE TOPOLOJİSİ:

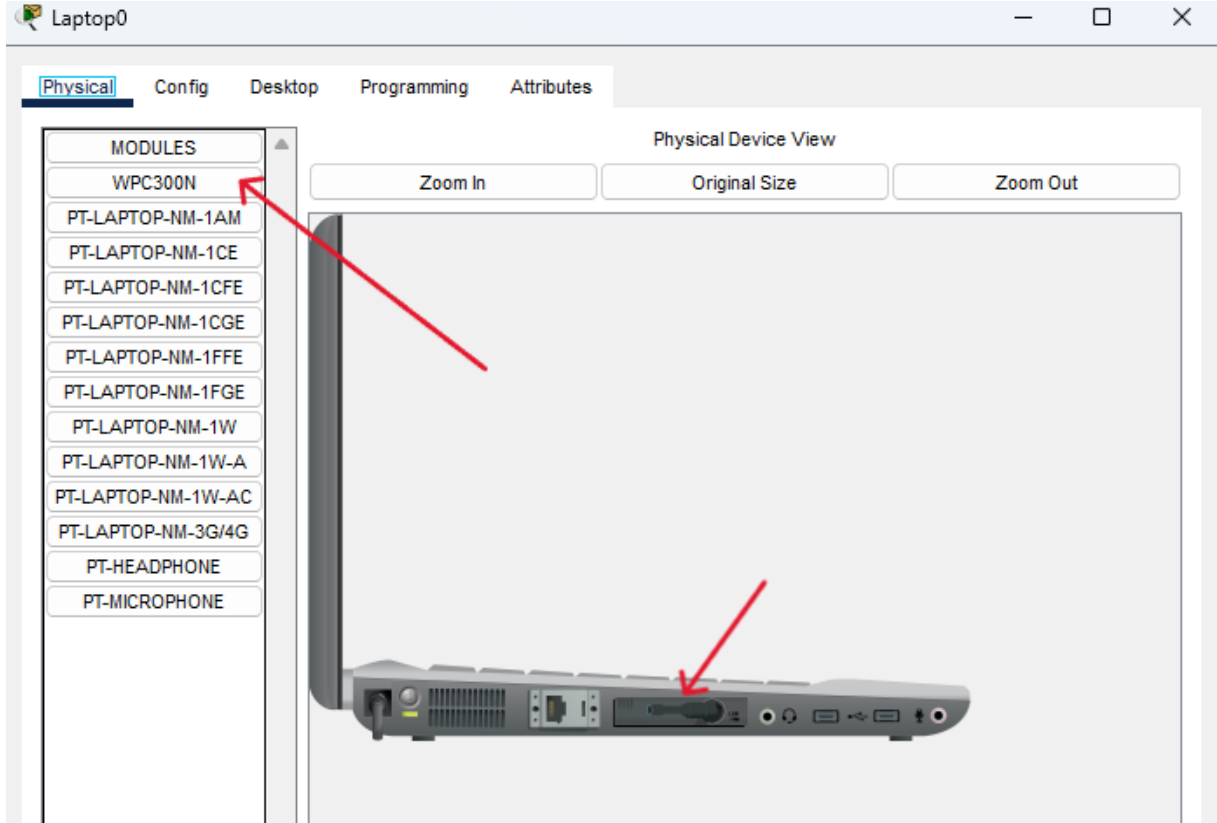
Bu atölyeyi tamamlamak için aşağıdaki topolojiyi kullanmanız tavsiye edilir.



ATÖLYE ANLATIMI:

Adım 1:

Topolojide görüldüğü gibi cihazları yerleştirip yapılandırın, laptoplar için önce aşağıdaki resimde görülen modülü takmanız gereklidir.



Adım 2:

Router'in sol tarafa bakan portuna 192.168.1.1 ve sağ tarafa bakan portuna 192.168.2.1 adresini verin.

Adım 3:

Access Point cihazlarında SSID(Ağ adı) ayarlarını yapın.

Access Point0

Physical **Config** Attributes

GLOBAL

Settings

INTERFACE

Port 0

Port 1

Port 1

Port Status ☒ On

SSID sol-ap

2.4 GHz Channel 6

Coverage Range (meters) 140,00

Authentication

☒ Disabled ☐ WEP ☐ WPA-PSK ☐ WPA2-PSK

WEP Key

PSK Pass Phrase

User ID

Password

Encryption Type Disabled

Access Point1

Physical **Config** Attributes

GLOBAL

Settings

INTERFACE

Port 0

Port 1

Port 1

Port Status ☒ On

SSID sag-ap

2.4 GHz Channel 6

Coverage Range (meters) 140,00

Authentication

☒ Disabled ☐ WEP ☐ WPA-PSK ☐ WPA2-PSK

WEP Key

PSK Pass Phrase

User ID

Password

Encryption Type Disabled

Adım 4:

Laptop'ları SSID'lere dikkat ederek fotoğraftaki gibi yapılandırın.

The screenshot shows the configuration window for Laptop0. The 'Config' tab is selected. On the left, under 'INTERFACE', 'Wireless0' is highlighted. The main area shows the 'Wireless0' configuration. 'Port Status' is checked 'On'. 'Bandwidth' is set to '18 Mbps'. 'MAC Address' is '00D0.BCB2.201A'. 'SSID' is 'sol-ap'. Under 'Authentication', 'Disabled' is selected. Other options like WEP, WPA-PSK, WPA, WPA2-PSK, WPA2, and 802.1X are unselected. There are fields for WEP Key, PSK Pass Phrase, User ID, Password, User Name, and another Password. 'Encryption Type' is set to 'Disabled'. Under 'IP Configuration', 'Static' is selected, with 'IPv4 Address' as '192.168.1.2' and 'Subnet Mask' as '255.255.255.0'.

| Section | Parameter | Value |
|--------------------|-----------------|--|
| Global Settings | Port Status | <input checked="" type="checkbox"/> On |
| | Bandwidth | 18 Mbps |
| Interface Settings | MAC Address | 00D0.BCB2.201A |
| | SSID | sol-ap |
| Authentication | Disabled | <input checked="" type="radio"/> |
| | WEP | <input type="radio"/> |
| | WPA-PSK | <input type="radio"/> |
| | WPA2-PSK | <input type="radio"/> |
| | WPA | <input type="radio"/> |
| | WPA2 | <input type="radio"/> |
| | 802.1X | <input type="radio"/> |
| | Method: | MD5 |
| | WEP Key | |
| | PSK Pass Phrase | |
| Encryption | User ID | |
| | Password | |
| | User Name | |
| | Password | |
| Encryption Type | | Disabled |
| IP Configuration | DHCP | <input type="radio"/> |
| | Static | <input checked="" type="radio"/> |
| | IPv4 Address | 192.168.1.2 |
| Subnet Mask | | 255.255.255.0 |

The screenshot shows the configuration window for Laptop1. The 'Config' tab is selected. On the left, under 'INTERFACE', 'Wireless0' is highlighted. The main area shows the 'Wireless0' configuration. 'Port Status' is checked 'On'. 'Bandwidth' is set to '24 Mbps'. 'MAC Address' is '0060.2F27.A8C0'. 'SSID' is 'sag-ap'. Under 'Authentication', 'Disabled' is selected. Other options like WEP, WPA-PSK, WPA, WPA2-PSK, WPA2, and 802.1X are unselected. There are fields for WEP Key, PSK Pass Phrase, User ID, Password, User Name, and another Password. 'Encryption Type' is set to 'Disabled'. Under 'IP Configuration', 'Static' is selected, with 'IPv4 Address' as '192.168.2.2' and 'Subnet Mask' as '255.255.255.0'.

| Section | Parameter | Value |
|--------------------|-----------------|--|
| Global Settings | Port Status | <input checked="" type="checkbox"/> On |
| | Bandwidth | 24 Mbps |
| Interface Settings | MAC Address | 0060.2F27.A8C0 |
| | SSID | sag-ap |
| Authentication | Disabled | <input checked="" type="radio"/> |
| | WEP | <input type="radio"/> |
| | WPA-PSK | <input type="radio"/> |
| | WPA2-PSK | <input type="radio"/> |
| | WPA | <input type="radio"/> |
| | WPA2 | <input type="radio"/> |
| | 802.1X | <input type="radio"/> |
| | Method: | MD5 |
| | WEP Key | |
| | PSK Pass Phrase | |
| Encryption | User ID | |
| | Password | |
| | User Name | |
| | Password | |
| Encryption Type | | Disabled |
| IP Configuration | DHCP | <input type="radio"/> |
| | Static | <input checked="" type="radio"/> |
| | IPv4 Address | 192.168.2.2 |
| Subnet Mask | | 255.255.255.0 |

Laptoplara default gateway atamayı unutmayın.

Adım 5:

Soldaki laptop'tan default gatewayi, diğer router arayüzünü ve diğer laptopa ping atın.

```
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=15ms TTL=255
Reply from 192.168.1.1: bytes=32 time=11ms TTL=255
Reply from 192.168.1.1: bytes=32 time=12ms TTL=255
Reply from 192.168.1.1: bytes=32 time=13ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 11ms, Maximum = 15ms, Average = 12ms

C:\>ping 192.168.2.1

Pinging 192.168.2.1 with 32 bytes of data:

Reply from 192.168.2.1: bytes=32 time=15ms TTL=255
Reply from 192.168.2.1: bytes=32 time=6ms TTL=255
Reply from 192.168.2.1: bytes=32 time=29ms TTL=255
Reply from 192.168.2.1: bytes=32 time=9ms TTL=255

Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 6ms, Maximum = 29ms, Average = 14ms

C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time=27ms TTL=127
Reply from 192.168.2.2: bytes=32 time=17ms TTL=127
Reply from 192.168.2.2: bytes=32 time=13ms TTL=127
Reply from 192.168.2.2: bytes=32 time=14ms TTL=127

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 13ms, Maximum = 27ms, Average = 17ms
```