# Praktikum 2 – Internet of Things

| No | Langkah-langkah |
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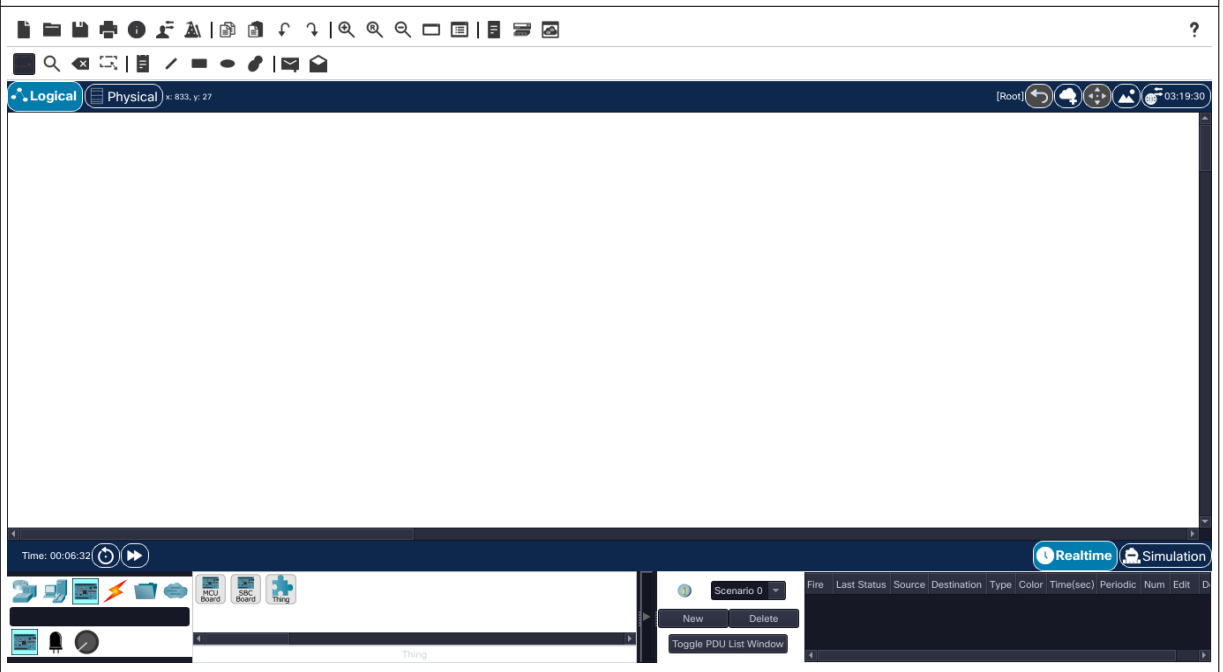
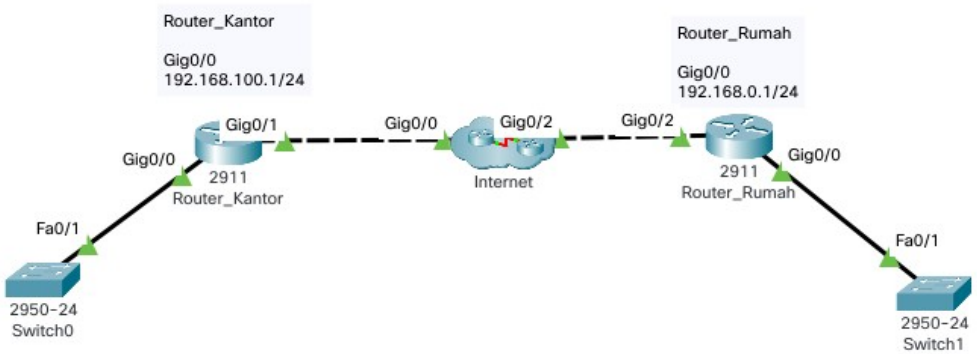
| 1 | Buka **Cisco Packet Tracer.** Jika memiliki akun silahkan login. Jika tidak, **Packet Tracer** hanya akan menyediakan 3 kali opsi penyimpanan. |
| |  |
| 2 | Buka file **Template Prak2.pkt** yang akan kita gunakan seterusnya untuk praktikum. Berisikan simulasi konektivitas melalui **Internet** dari jaringan **Kantor** ke jaringan **Rumah.** Pastikan **RouterKantor** dapat berkomunikasi dengan **RouterRumah** |
| |  |
| 3 | Tambahkan **HomeGateway** (menu **Wireless)** di jaringan Rumah, dan sambungkan kabel. |

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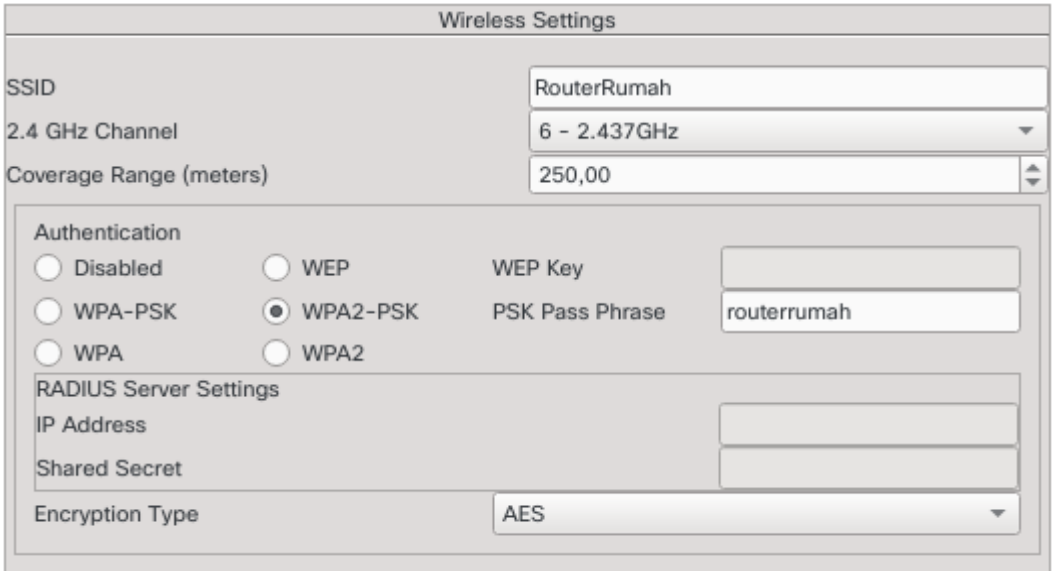
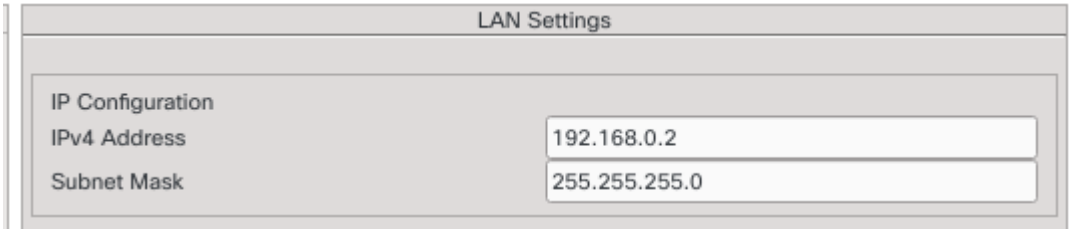
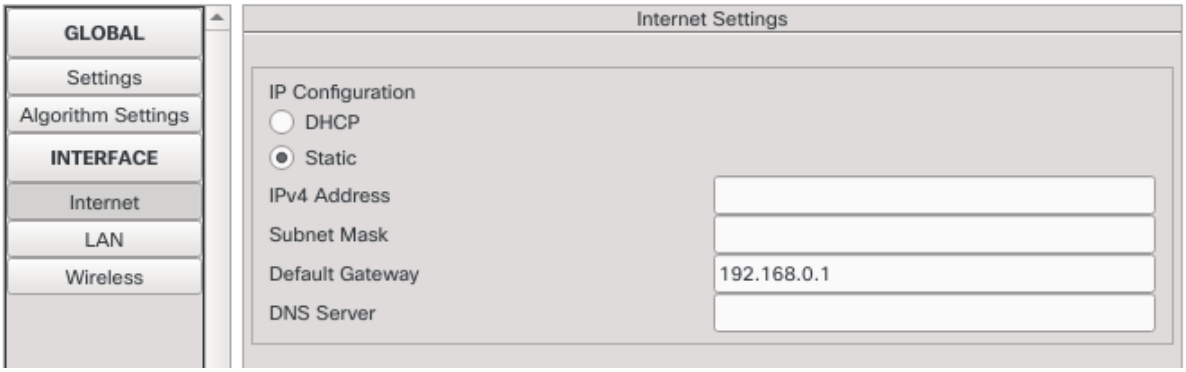
| 4 | Konfigurasikan **Jaringan Wi-Fi, IP Address,** dan **Gateway** nya di **HomeGateway** agar perangkat dapat terhubung |
| |  <br>  <br>  |
| 5 | Tambahkan **Kipas** ke **Jaringan Rumah** dan sambungkan ke **Wi-Fi** |

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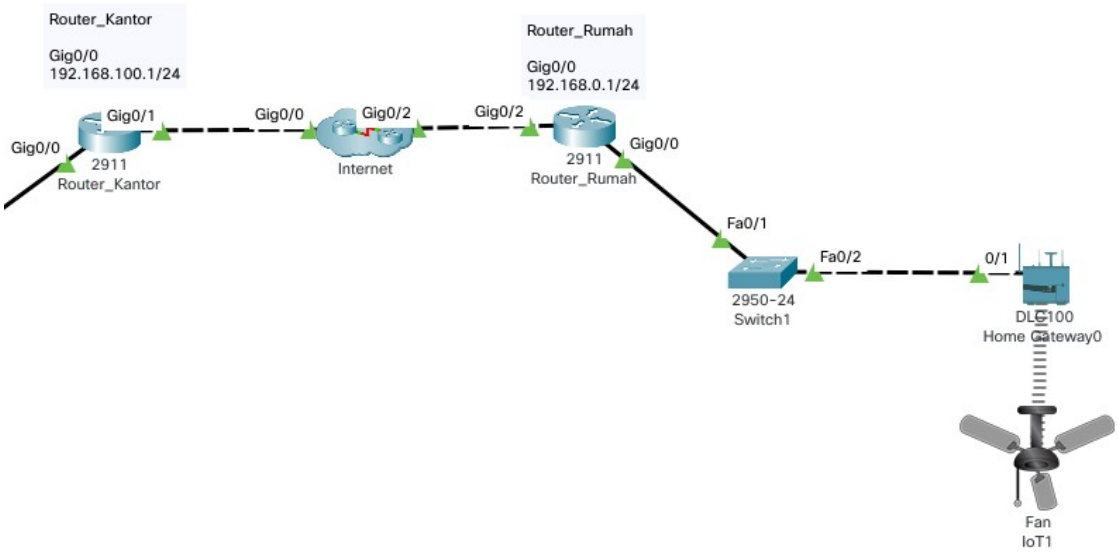
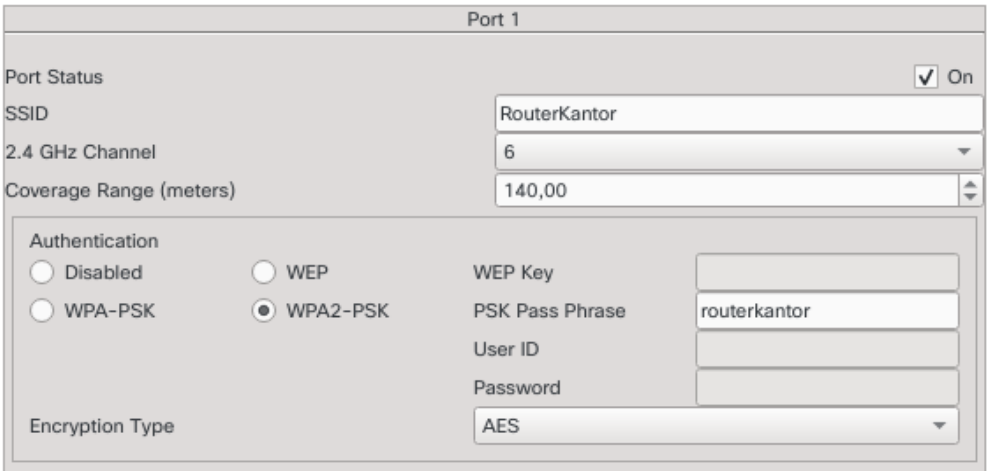
| 6 | Berikan **IP** beserta **Gateway** nya ke masing-masing perangkat:<br>**Kipas: 192.168.0.3/24, GW: 192.168.0.1** |
| |  |
| 7 | Cek **PING** antara **Fan -> RouterRumah,** dan **Fan -> RouterKantor.** Pastikan semua sukses |
| 8 | Ulang **Langkah 3-4,** namun pasangkan di **Jaringan Kantor** dan **Konfigurasi Wi-Fi** seperti berikut |
| |  |

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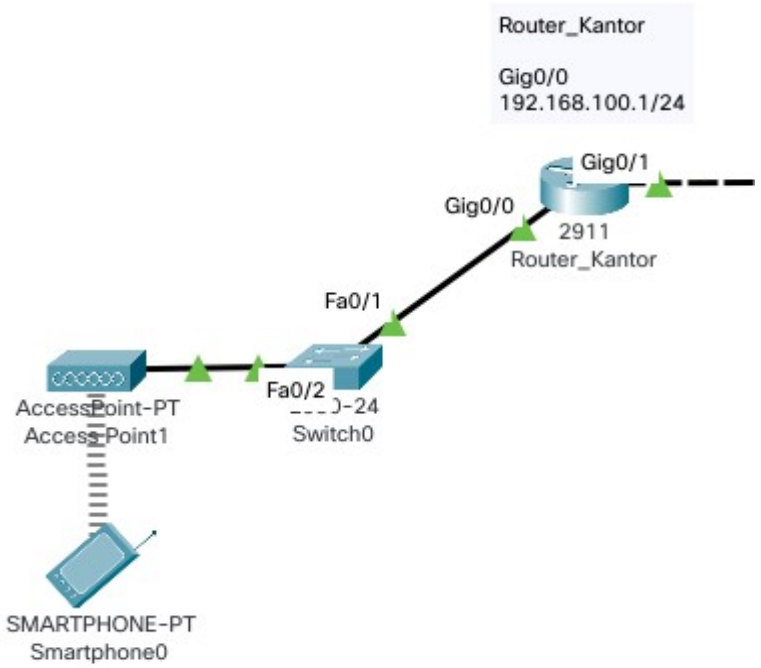
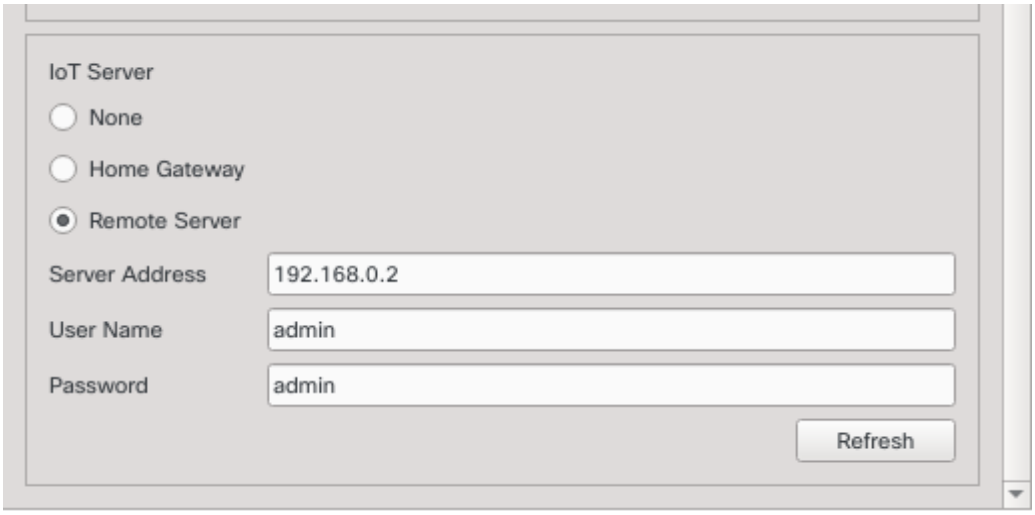
| 9 | Tambahkan perangkat **Smartphone** di **Jaringan Kantor** dan hubungkan dengan **Wi-Fi Kantor.** Konfigurasikan **IP** sebagai berikut: **IPAddr: 192.168.100.2/24 GW: 192.168.100.1** |
| |  |
| 10 | Tes **PING** dari **Smartphone -> RouterKantor, Smartphone -> HomeGateway** dan **Smartphone -> Fan.** Jika sukses, kita sudah bisa mengkonfigurasikan **Remote Control.** |
| 11 | Buka **Kipas,** dan di bagian **Wireless** pilih menu **IoT Server** ke **HomeGateway (Jika Satu Jaringan),** atau manual dengan **input IP (Jika Jauh)** |
| |  |
| 12 | Buka **Smartphone,** pilih **Desktop,** lalu pilih **IoT Monitor,** masukkan **IP Address** dari **Home Gateway,** lalu masuk |

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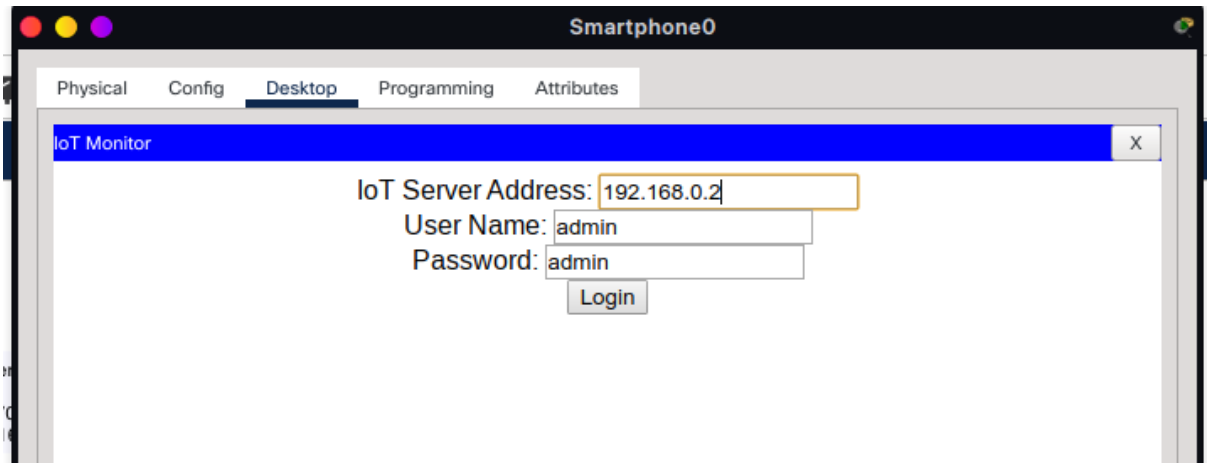
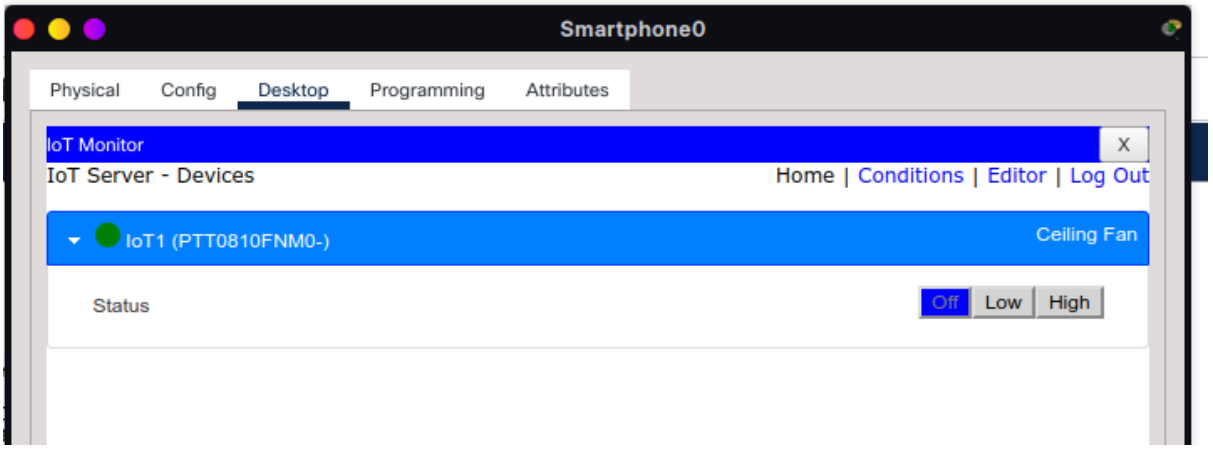
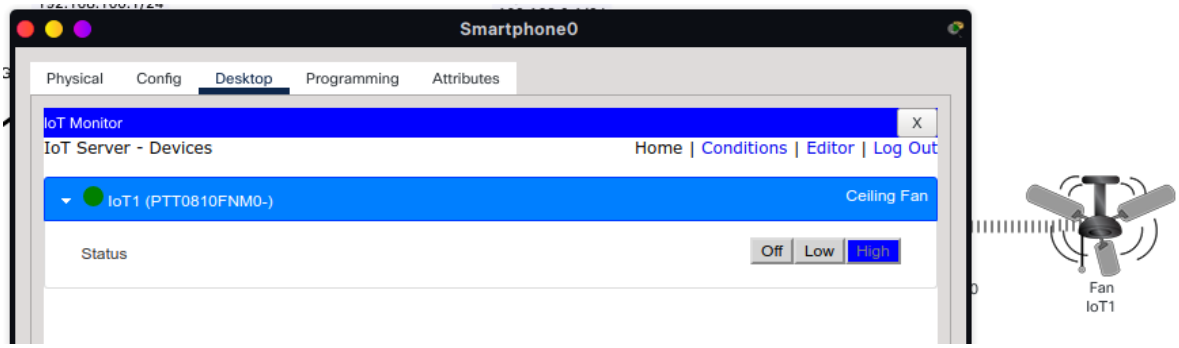
| |  |
| 13 | Jika dilakukan dengan benar, maka **Kipas** akan muncul di monitoring, dan dapat di kontrol dari **Smartphone.** |
| |  |
| |  |
| SELESAI | |