



# Packet Tracer 6.1 tutorial - Radius configuration

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## Learning RADIUS : recommended books

## Configure telnet authentication on a Cisco 2811 router

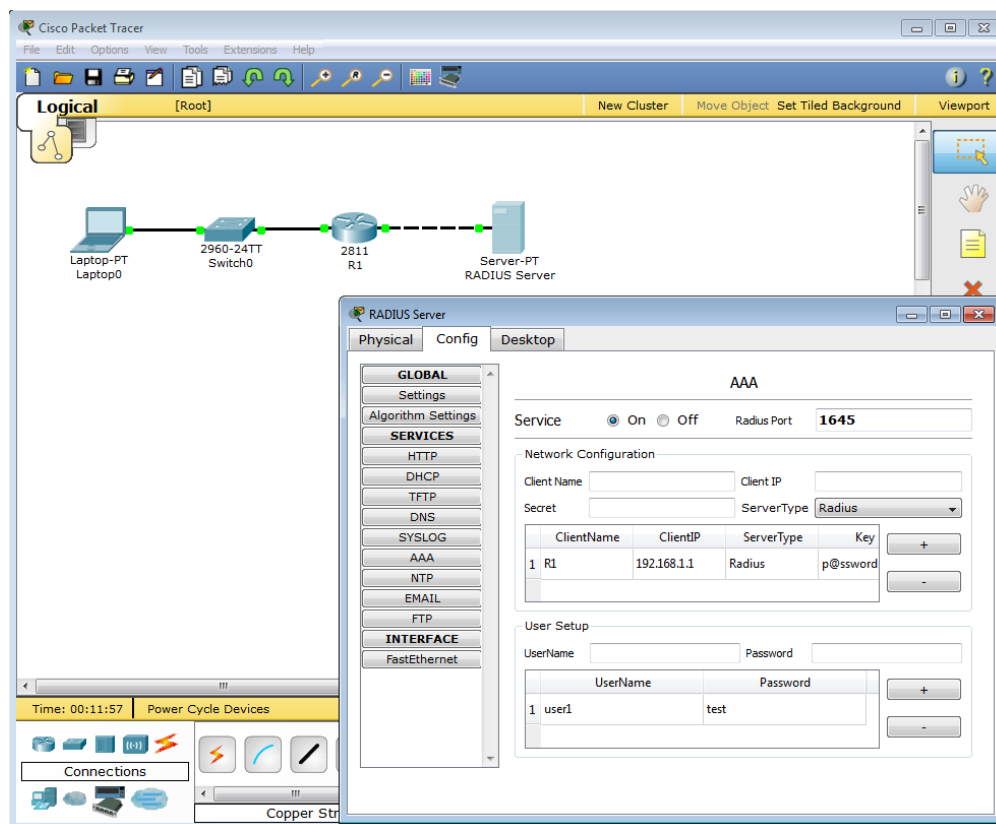
This Packet Tracer tutorial describes how to configure RADIUS authentication on a Cisco™ 2811 router for telnet access.

Router R1 :

- FastEthernet 0/0 : 192.168.1.1/24
- FastEthernet 0/1 : 192.168.2.1/24

RADIUS Server : 192.168.1.2/24

Client (Laptop0) : 192.168.2.1/24



### IOS configuration on R1

aaa new-model	The first command, aaa new-model, tells the router that you are using either TACACS+ or RADIUS for authentication.
radius-server host 192.168.1.2 key p@ssword	Tells the router the IP address of the RADIUS server and the shared secret.
aaa authentication login default group radius local	The aaa authentication command is used to start RADIUS authentication on the router as a default method for login.

line vty 0 15	Configuration of the vty interfaces for login
login authentication default	

## Configure WPA entreprise on a Linksys access point

### Lab description

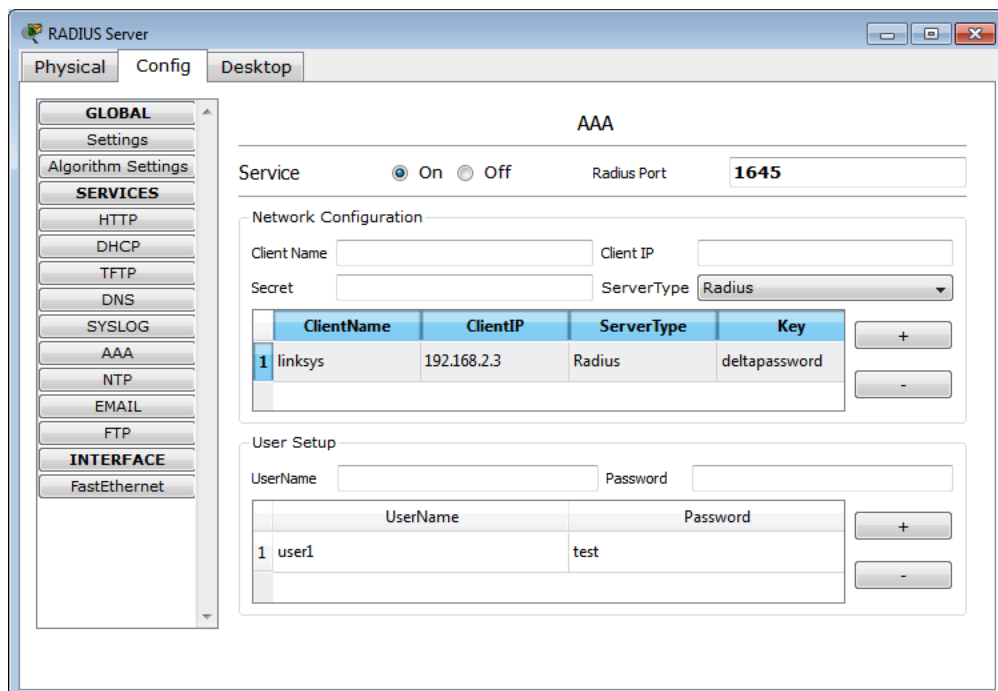
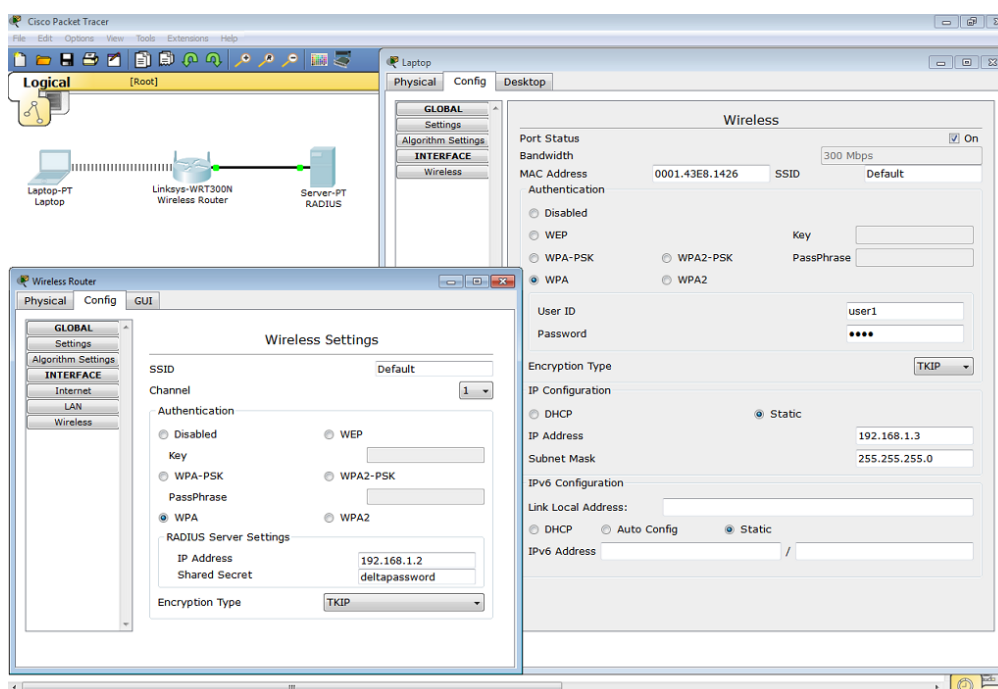
This tutorial describes how to configure WPA entreprise authentication on a Linksys™ access point.

Linksys WRT300N : 192.168.1.1/24

RADIUS Server : 192.168.1.2/24

Laptop : 192.168.1.3/24

**Tip** : For security reasons, it is highly recommended to secure the RADIUS server behind a router (using ACL) or a firewall in production networks.



## Configuration steps

1. Add a Linksys AP and configure it's IP address to 192.168.1.1 (netmask 255.255.255.0)
  2. Add a Server-PT device and configure it's IP address to 192.168.1.2 (netmask 255.255.255.0)
  3. On the Server configuration page, configure the AAA Service with the following settings :
    1. Client Name : Linksys (Chose a name. Doesn't need to match AP name)
    2. Client IP : IP address of the Linksys AP
    3. Client password : A shared secret with the AP (here : deltapassword)
    4. Create a new user (name : user1 - Password : test)
  4. Configure the wireless settings of the Linksys AP like in the screenshot above (WPA TKIP / Radius server IP / Shared secret)
  5. Add a laptop device and configure it with a PT-LAPTOP-NM-1W module (Drag and drop to replaces the original ethernet module)
  6. Configure the wireless settings of the laptop like in the screenshot above (WPA TKIP / User ID, Password)
  7. The connection should establish between the laptop and the AP.
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