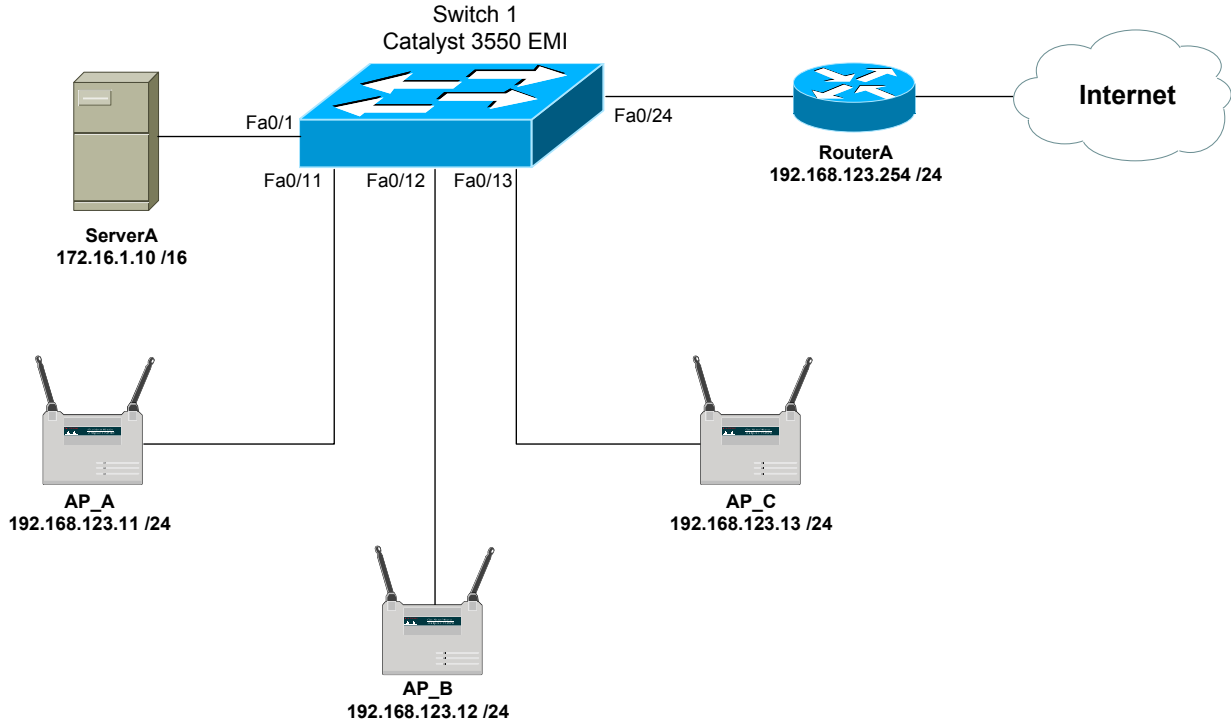


## - Basic Wireless Lab -

### Basic Wireless – Lab



### Basic Objectives:

1. Configure and cable the Ethernet interfaces as indicated in the above diagram.
2. Ensure that both ServerA and RouterA are configured as DHCP servers.

### Wireless Objectives:

3. Assign the IP addresses to the Aironet access points as specified. The *default* IP address is 10.0.0.1, and username/password is Cisco (case sensitive).

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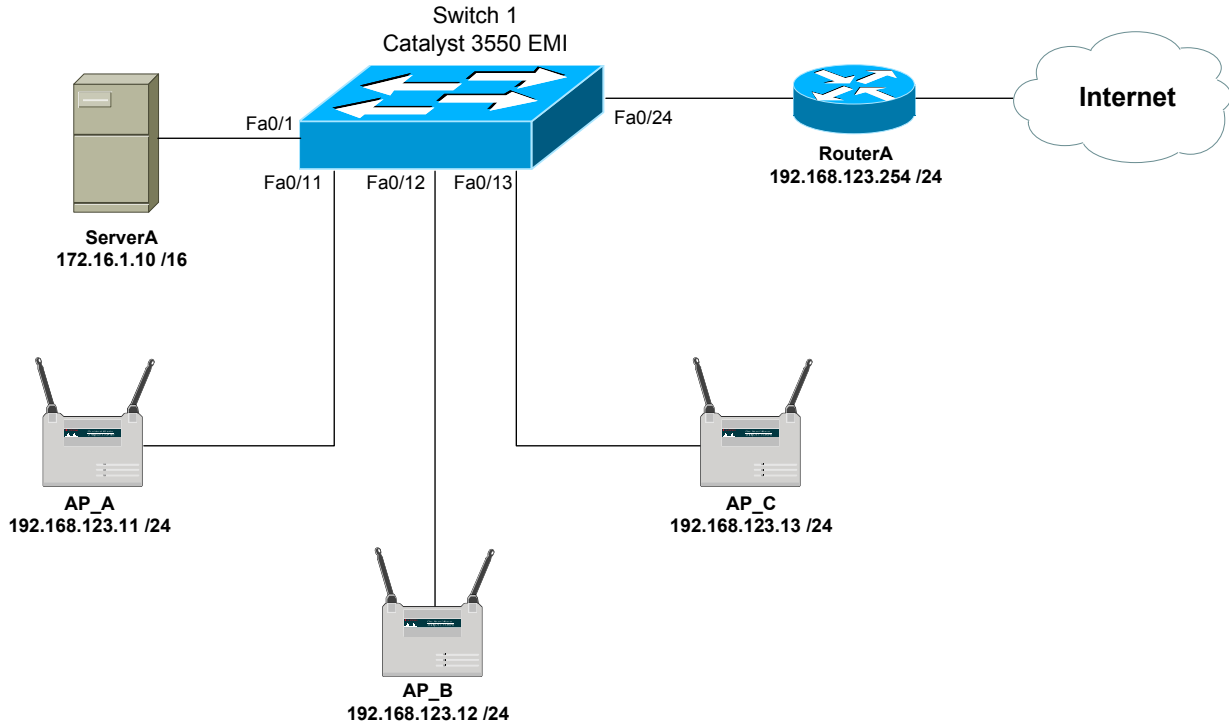
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**Basic Wireless – Lab (continued)**



**Wireless Objectives:**

- 4. Change the default SSID from *tsunami* to *publicY*, where *Y* is your AP's assigned letter. For example, AP\_B should have an SSID of *publicB*.

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- 5. Ensure this SSID is broadcasted, but uses open authentication and no encryption.

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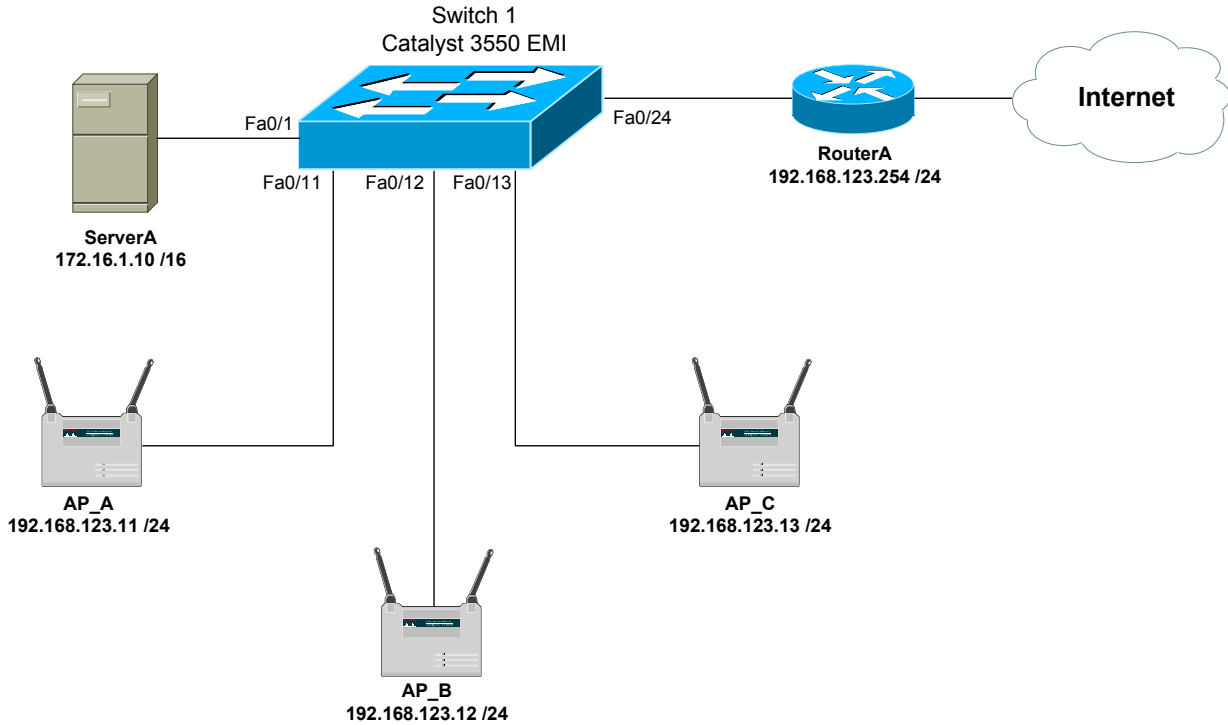
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**Basic Wireless – Lab (continued)**



**Wireless Objectives:**

- 6. Configure a second SSID. Name this SSID *privateY*, where *Y* is your AP’s assigned letter. For example, AP\_B should have a second SSID of *privateB*.

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- 7. Ensure this SSID is *not* broadcasted, but uses open authentication and no encryption.

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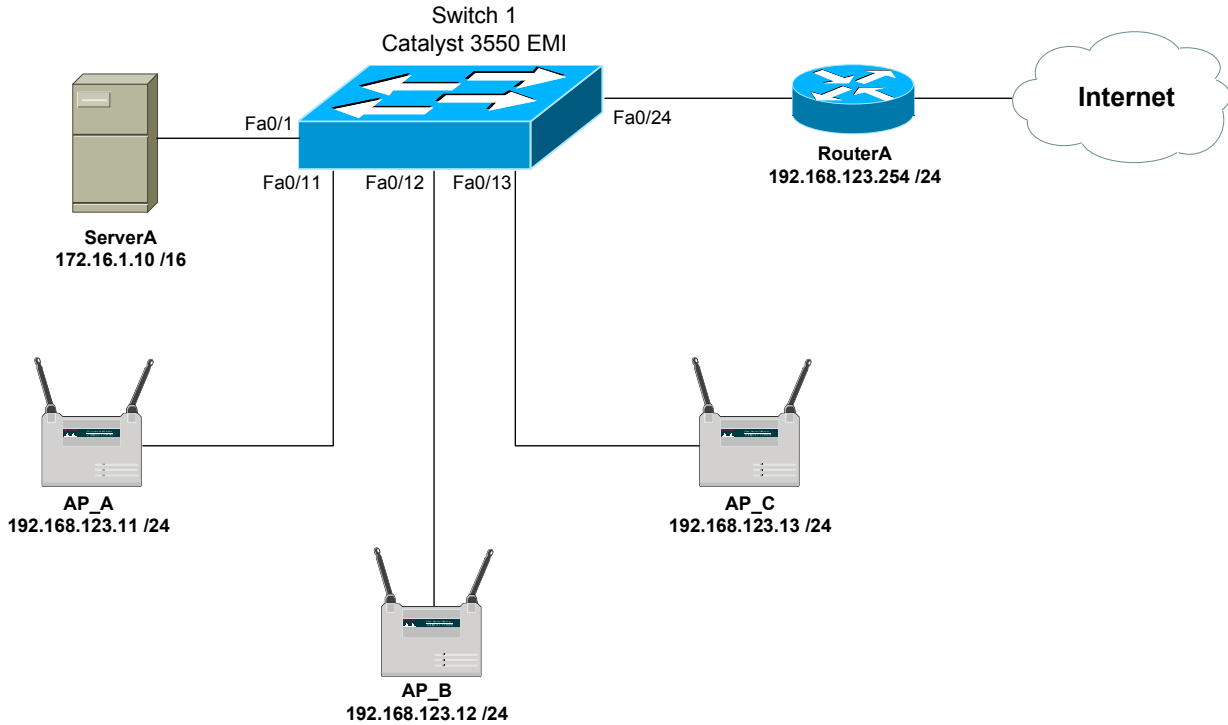
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**Basic Wireless – Lab (continued)**



**Wireless Objectives:**

8. Create the following VLANs on Switch1, and assign the specified names:

- VLAN 1 – Public
- VLAN 300 – Private

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9. Ensure that Switch1 forms a trunk connection with each AP.

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10. Assign the interface connecting to ServerA to the Private VLAN.

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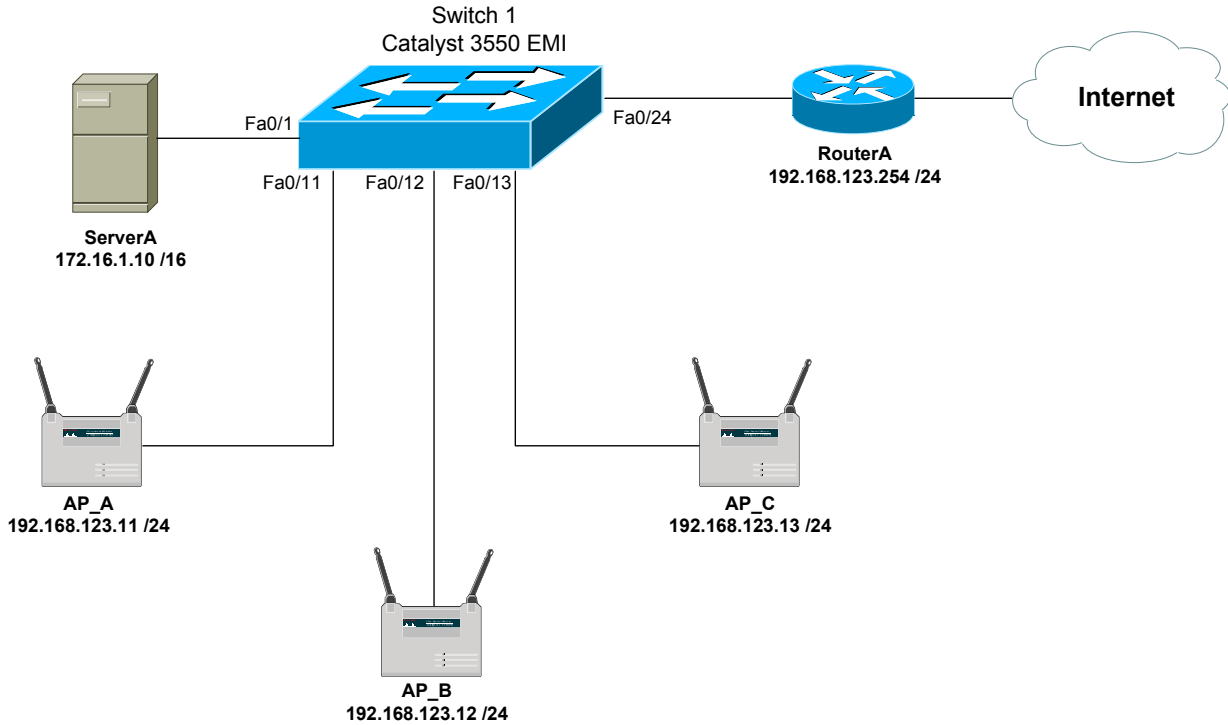
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**Basic Wireless – Lab (continued)**



**Wireless Objectives:**

11. On each AP, assign the *publicY* SSID to VLAN 1, and the *privateY* SSID to VLAN 300.

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12. From a wireless-enabled client, confirm which wireless networks are currently visible.

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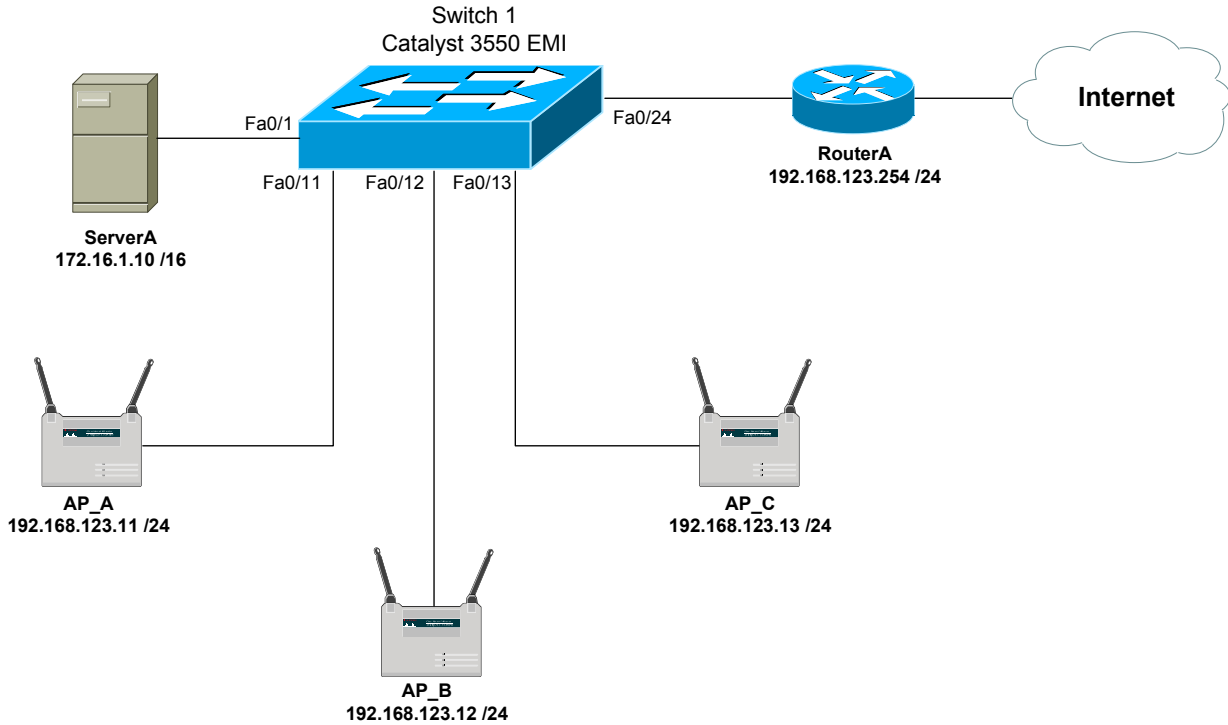
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**Basic Wireless – Lab (continued)**



**Wireless Objectives:**

13. From a wireless-enabled client, confirm connectivity to the *publicY* network. Full connectivity to the Internet should be possible, but not to ServerA.

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14. From a wireless-enabled client, confirm connectivity to the *privateY* network. Full connectivity to ServerA should be possible, but not to the Internet.

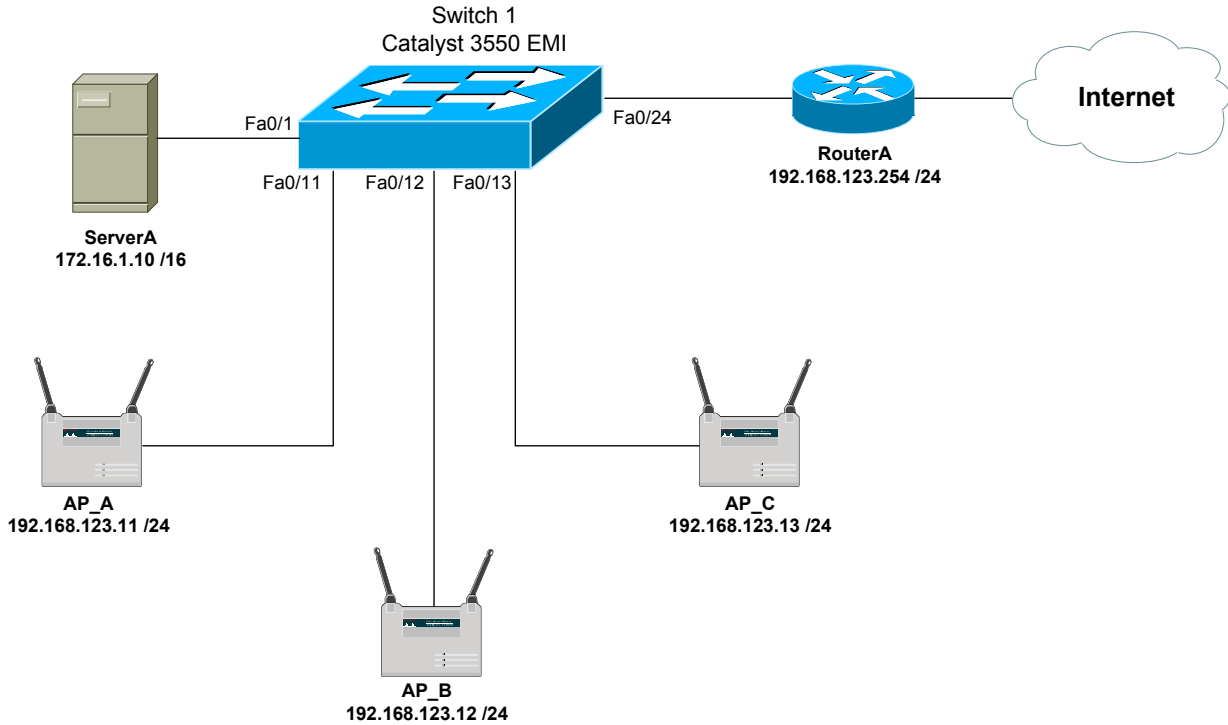
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**Basic Wireless – Lab (continued)**



**Wireless Objectives:**

15. For the *publicY* SSID, enable 128-bit WEP encryption. Choose a 128-bit key to use. Additionally change the authentication method to *shared*.

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16. The wireless client should now see the *publicY* network as a ‘secure’ network. Connect to this network, and confirm connectivity to the Internet.

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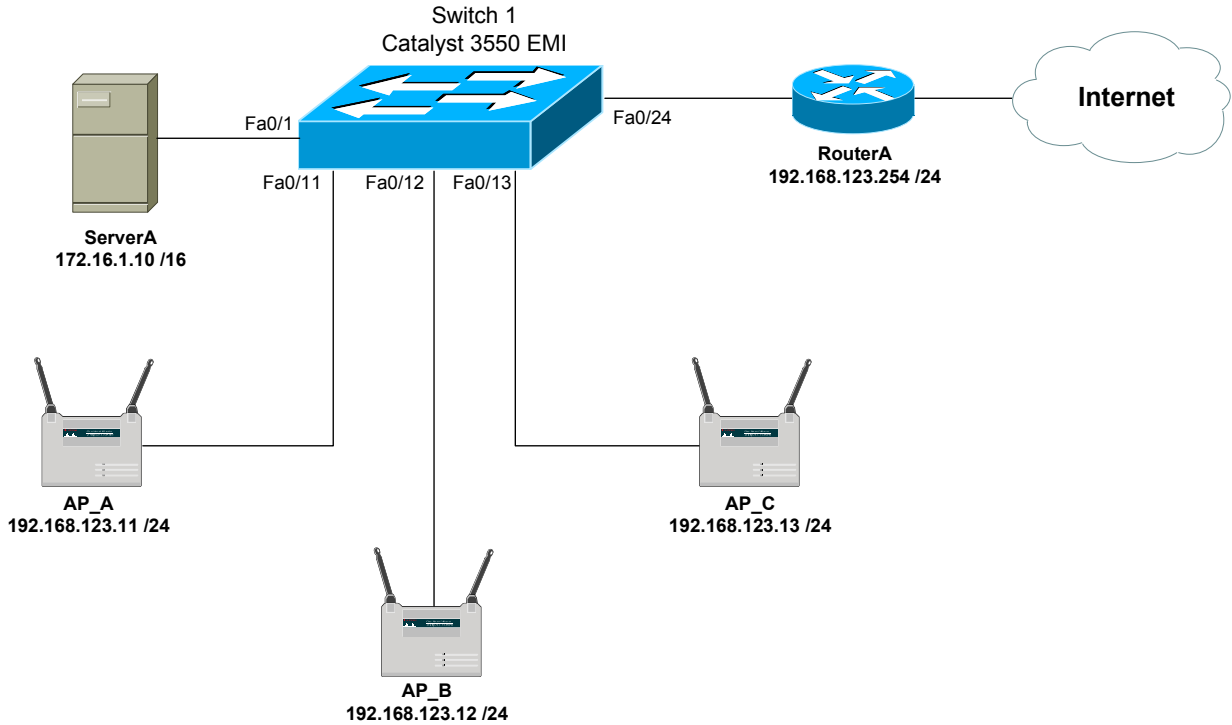
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**Basic Wireless – Lab (continued)**



**Wireless Objectives:**

17. For the *privateY* SSID, enable TKIP encryption. Keep the authentication as *open*, but enable a mandatory WPA key for authentication. Use a WPA pre-shared key of *ciscoisthebomb*.

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18. Connect to the *privateY* network, and confirm connectivity to ServerA.

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