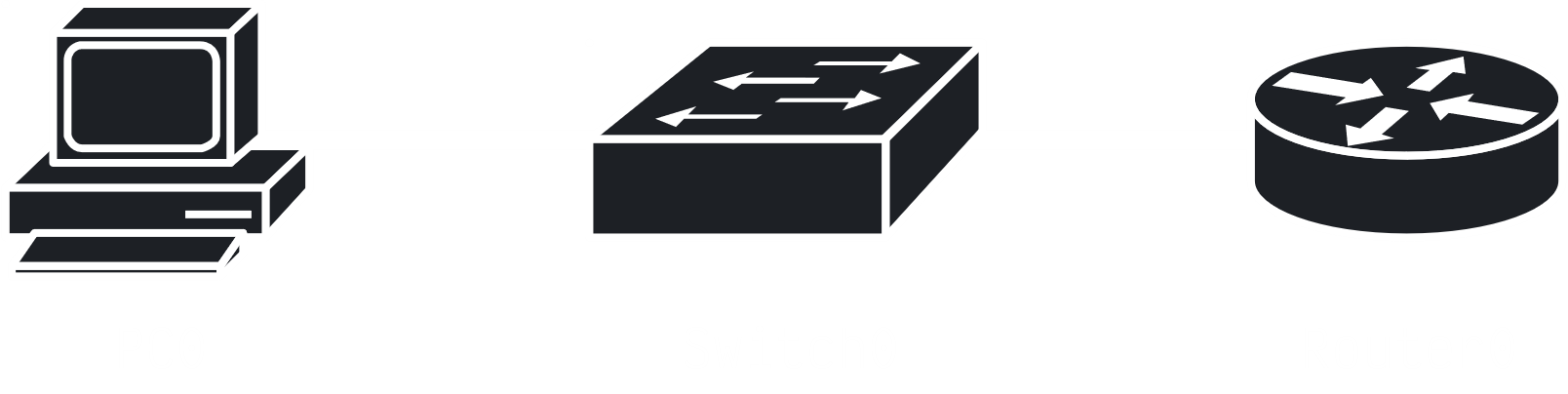
**Remotely Configuring a Router**

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Say we have a setup like the one shown below:



We can setup the IP address and default gateway for the PC as well as the basic setup and interface IP addresses for the router as before. Say the IP address for the PC is and the IP address for the router is .

## Router Setup

From the **router’s CLI**, enter the **global configuration** mode and enter the following commands:

username admin password cisco  
ip domain-name 229  
crypto key generate rsa  
line VTY 0 4  
login local  
transport input all

CLI

The first command setups up a **username** and **password**. We will need this when configuring the router remotely.

The second command creates a **domain name** for the remote connection.

The third command generates **public keys** for remote connections using **RSA**. Entering this command will cause a prompt to show up asking how many **keys** we wish to have in the module. The larger this value, the more secure the keys. It is convention to use .

The fourth command takes us into the configuration mode for the actual remote connection. So far, we were just setting it up. The values and here are because we want to set up the remote connections for up to **four devices**.

The fifth command essentially tells the router to **require the username and password** we provided earlier when any remote device wishes to configure the router.

The sixth command defines what **protocols** we will be using for remote connections. There are two protocols, **SSH** and **Telnet**. We are using both.

## Connecting from a Remote Device

Go to the **PC’s Command Prompt** and enter the following command:

ssh -l admin 10.0.0.1

CMD

We are asked for a **password**. This is the password we setup for the admin user, cisco. Once we provide this, we will be taken to the **user execution mode of the router**. We can continue from here normally, as though we were using the CLI of the router directly.

Instead of using the above command, which uses the **SSH** protocol, we can also use the **Telnet** protocol when initially connecting.

telnet 10.0.0.1

CMD