An ad hoc network is one that is spontaneously formed when devices connect and communicate with each other. The term ad hoc is a Latin word that literally means "for this," implying improvised or impromptu.

Ad hoc networks are mostly wireless local area networks (LANs). The devices communicate with each other directly instead of relying on a base station or access points as in wireless LANs for data transfer co-ordination. Each device participates in routing activity, by determining the route using the routing algorithm and forwarding data to other devices via this route

Ad hoc networks can be classified into several types depending upon the nature of their applications. The most popular ad hoc networks are :

MANET mobile ad hoc networks

this is a self configuing , self organising wirless network of mobile devices

VANET vehicular ad hoc networks

this is network formed by communication between moving vehicles and other roadside devices

Arrange all components i.e., Wireless Router and PC’s

Step 2: Configure wireless routers and connect both of them to each other using Ethernet ports:

In Router0, go to GUI > Wireless > basic wireless settings

Network SSID: CS and set SSID broadcast to enabled

Now, click on wireless security,

Security Mode: WPA2 Personal, Passphrase: ciscorouter1

Go to the bottom and save settings

In Router1, go to GUI > Wireless > basic wireless settings

Network SSID: IT and set SSID broadcast to enabled

Now, click on wireless security,

Security Mode: WPA Personal, Passphrase: ciscorouter2

Step 3: Connect all machines/devices (PC’s) to respective router as per our requirements.

Change the Port of all pc’s with wireless adapter

Configure Wireless connection: Click on PC0 > Desktop > PC Wireless

Click on Connect tab > click on refresh > Select CS/IT > Enter Password and connect

Do similar configuration to all respective PC