

Roll. No.: A016	Name: Varun K, Simran K, Kartik P
Sem/Year: VII/4	Batch: 1
Date of Experiment: 03/09/2022	Date of Submission: 03/09/2022
Grade --	

Aim

Setup a wireless ad-hoc network between 2 devices

Theory

It can be done in 2 ways:

Through WIFI

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>netsh wlan set hostednetwork mode=allow ssid=AdHocNetwork key=surajpankaj
The hosted network mode has been set to allow.
The SSID of the hosted network has been successfully changed.
The user key passphrase of the hosted network has been successfully changed.

C:\Windows\system32>netsh wlan start hostednetwork
The hosted network couldn't be started.
The group or resource is not in the correct state to perform the requested operation.
```

```
C:\WINDOWS\system32>netsh wlan show drivers

Interface name: Wi-Fi

Driver               : Realtek RTL8723DE 802.11b/g/n PCIe Adapter
Vendor               : Realtek Semiconductor Corp.
Provider             : Realtek Semiconductor Corp.
Date                 : 16-03-2021
Version              : 2024.0.10.222
INF file              : oem3.inf
Type                 : Native Wi-Fi Driver
Radio types supported : 802.11n 802.11g 802.11b
FIPS 140-2 mode supported : Yes
802.11w Management Frame Protection supported : Yes
Hosted network supported : No
Authentication and cipher supported in infrastructure mode:
    Open                None
    WPA2-Personal        CCMP
    Open                 WEP-40bit
    Open                 WEP-104bit
    Open                 WEP
    WPA-Enterprise       TKIP
    WPA-Personal          TKIP
    WPA2-Enterprise       TKIP
    WPA2-Personal         TKIP
    WPA-Enterprise       CCMP
    WPA-Personal          CCMP
```

```

C:\WINDOWS\system32>netsh wlan show drivers

Interface name: Wi-Fi

Driver               : Realtek RTL8723DE 802.11b/g/n PCIe Adapter
Vendor               : Realtek Semiconductor Corp.
Provider             : Realtek Semiconductor Corp.
Date                 : 16-03-2021
Version              : 2024.0.10.222
INF file             : oem3.inf
Type                 : Native Wi-Fi Driver
Radio types supported : 802.11n 802.11g 802.11b
FIPS 140-2 mode supported : Yes
802.11w Management Frame Protection supported : Yes
Hosted network supported : No
Authentication and cipher supported in infrastructure mode:
    Open                None
    WPA2-Personal        CCMP
    Open                WEP-40bit
    Open                WEP-104bit
    Open                WEP
    WPA-Enterprise       TKIP
    WPA-Personal         TKIP
    WPA2-Enterprise      TKIP
    WPA2-Personal        TKIP
    WPA-Enterprise       CCMP
    WPA-Personal         CCMP
    WPA2-Enterprise      CCMP
    WPA3-Personal        CCMP
    Vendor defined       TKIP

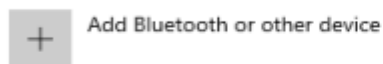
```

Because, ad-hoc network isn't supported in Windows 10, Bluetooth connection was established.

2. Using Bluetooth

Setting Bluetooth Connection

Bluetooth & other devices



Bluetooth



Now discoverable as "DESKTOP-0D301RE"

Audio



Airdopes 173
Paired



80%



LAPTOP-IGKHA07H
Paired

Sending the File

File successfully transferred

Sent to: LAPTOP-IGKHA07H
Files sent:

File Name	Size
Unit 2.pptx	501 KB

File Received

Save the received file

Save the file to the location below, or click Browse to choose a different location.

File name:

File Name	Size
Unit 2.pptx	501 KB

Location:

C:\Users\siddh\OneDrive\Documents

Browse...

Conclusion

Hence, we were able to established ad-hoc network between 2 systems.