Unplugged peer to peer network

# Introduction

For this activity, each person in your group will play a role in a peer-to-peer network. You will be responsible for requesting jobs and fulfilling requests for other computers in the network.

Task 1 .Define roles

1. In your group of 3 or 4, give each person a **role** from the table below:

| **Group member** | **Role** |
| --- | --- |
| 1 | Finance manager’s computer |
| 2 | Marketing manager’s computer with a shared printer attached |
| 3 | Office worker 1’s computer |
| 4 (optional) | Office worker 2’s computer |

1. Use the **sticky labels** and a **pen** to ensure that each person in your group is **clearly labelled** with their role.

Task 2 Distribute cards

1. Give each member of the group the **Role card** that matches their role. The role cards are the larger cards labelled “Role card”.
2. Give each member the **Request** and **Response** cards that belong to them. You can see which cards belong to each member by looking at the **From:** section of the card (see example on next page).



1. Each member of the group should display their cards clearly in front of them to make it easy to keep track of their cards.

Task 3 The scenarios

You will complete the first scenario with your teacher. There are two further scenarios written below. For each scenario, each member of the group is responsible for requesting tasks and responding to tasks assigned to them. Cards should move around members of the group as tasks are requested and responded to. Lay cards face down once they have been fulfilled.

After the scenarios, reflect on the advantages and disadvantages of sharing resources in this way.

**Note:** Only complete office worker 2 tasks if you have a fourth member in your group.

**Scenario two**

1. **Office worker 1** sends a request for the file **Company\_logo.png**
2. **Marketing manager** receives the request and sends the file **Company\_logo.png**
3. **Marketing manager**, **Finance manager**, **Officer worker 1**, and (optional) **Office worker 2** place print requests for their files
4. **Marketing manager** processes all requests; remember that only one print can happen at a time

**Scenario three**

1. **Marketing manager** requests the file **Customer\_database.db**
2. **Finance manager** receives the request and sends the file **Customer\_database.db**
3. An **error** is detected on the **Marketing manager’s** computer and it is shutdown
4. **Office worker 1** sends a print request for the file **Welcome\_letter.doc**
5. **Marketing manager** doesn’t receive the request as it is shut down, print isn’t actioned
6. (Optional) **Office worker 2** sends a request for the file **Website\_animation.gif**
7. (Optional) **Marketing manager** does not receive the request as it is shut down, file is not sent

**Reflection**

*What were the advantages of sharing resources in this way?*

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| --- |

*What were the disadvantages?*

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| --- |