|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Communications** | | **Commande** | **Depuis le poste** | **Résultats de la commande** |
| PC0 | PC1 | Ping PC1 | PC0 | Succesful |
| PC0 | PC2 | Ping PC2 | PC0 | Succesful |
| PC0 | PC3 | Ping PC3 | PC0 | Failed |
| PC1 | PC2 | Ping PC2 | PC1 | Succesful |
| PC1 | PC3 | Ping PC3 | PC1 | Failed |
| PC2 | PC3 | Ping PC3 | PC2 | Failed |

Exercice 2

3)

4)L’adresse IP diffère au niveau du troisième élément(PC3) et son masque n’autorise pas le changement du troisième élément pour conformer avec l’adresse des autres PC.

5)Adresse IP :192.168.0.1

Masque de sous-réseau :255.255.255.0

6)a)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Exp**  **No** | **PC1** | | **PC2** | | **Communication possible?** |
| **Adresse IP** | **Masque** | **Adresse IP** | **Masque** |
| 1 | 10.12.130.21 | 255.0.0.0 | 10.33.33.33 | 255.0.0.0 | ✔ |
| 2 | 111.111.222.222 | 255.255.0.0 | 111.111.111.111 | 255.255.0.0 | ✔ |
| 3 | 180.12.200.1 | 255.255.240.0 | 180.12.100.2 | 255.255.240.0 | **X** |
| 4 | 1.2.3.4 | 255.0.0.0 | 1.33.3.4 | 255.0.0.0 | ✔ |
| 5 | 172.30.0.25 | 255.255.255.128 | 172.30.0.1 | 255.255.255.128 | ✔ |
| 6 | 126.1.1.1 | 255.192.0.0 | 12 6.111.111.111 | 255.192.0.0 | **X** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Expérimentation n°1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PC1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adresse IP | 10 | | | | | | | | 12 | | | | | | | | | 130 | | | | | | | | | 21 | | | | | | | | |
| 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | |
| Masque de sous réseau | 255 | | | | | | | | 0 | | | | | | | | | 0 | | | | | | | | | 0 | | | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Adresse réseau= ‘IP’ AND ‘Masque’ | 10 | | | | | | | | 0 | | | | | | | | | 0 | | | | | | | | | 0 | | | | | | | | |
| 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| **PC2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adresse IP | 10 | | | | | | | | 33 | | | | | | | | | 33 | | | | | | | | | 33 | | | | | | | | |
| 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| Masque de sous réseau | 255 | | | | | | | | 0 | | | | | | | | | 0 | | | | | | | | | 0 | | | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Adresse réseau= ‘IP’ AND ‘Masque’ | 10 | | | | | | | | 0 | | | | | | | | | 0 | | | | | | | | | 0 | | | | | | | | |
| 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| **Y’a-t-il Communication entre PC et PC2 Oui** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Exercice 3

4)Un hub envoie le PDU à toutes les PC connectés à celui-ci, un switch envoie le PDU à toutes les machines connectées à ce dernier.