Mise en œuvre du cache ARP

Comment rechercher les informations nécessaires pour renseigner un cache ARP?



Contenu de ce cours.

- ☐ Mise en œuvre du cache ARP
 - Recherche de l'adresse Ethernet du poste de destination





Prés requis.

- **☐** Principes de fonctionnement des protocoles
 - Ethernet
 - IP

☐ Encapsulation des protocoles





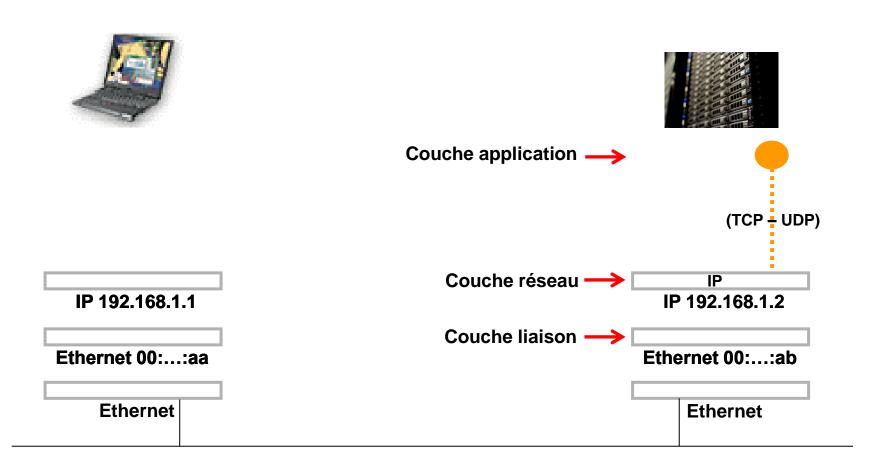
☐ Configuration des adresses du client et du serveur d'applications





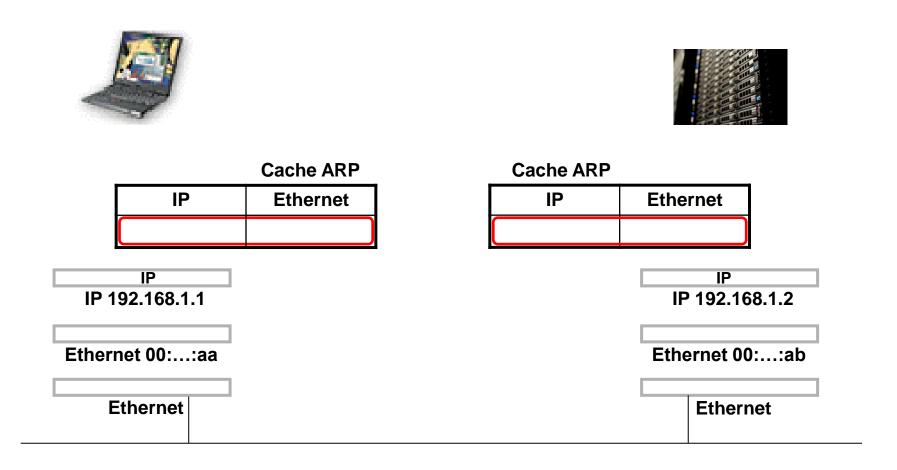


☐ Attente de l'application serveur en lien avec la couche réseau



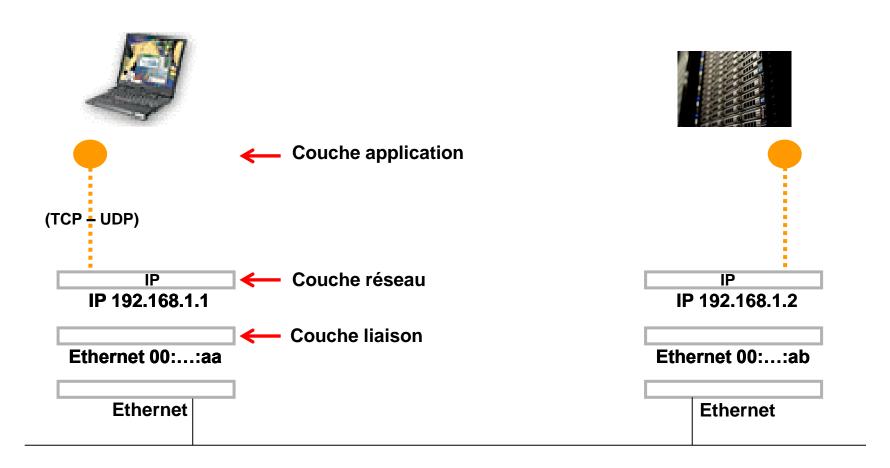


☐ Contenu initial des caches ARP



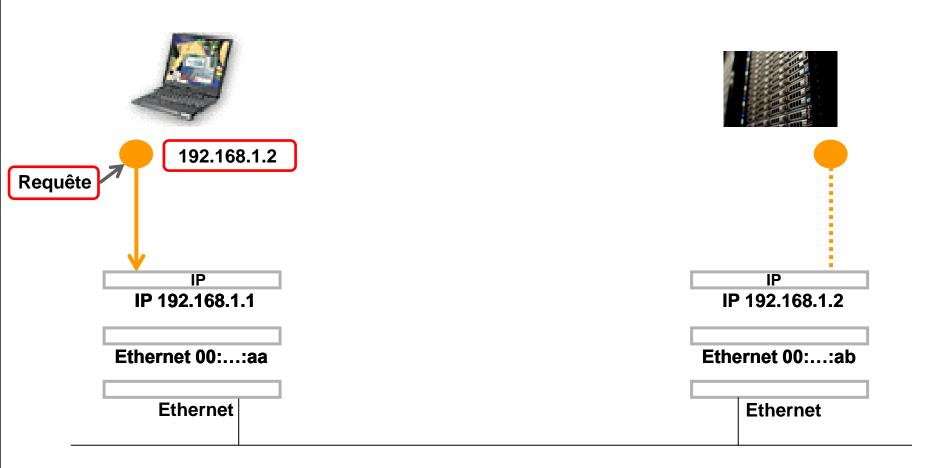


☐ Démarrage de l'application cliente en lien avec la couche réseau



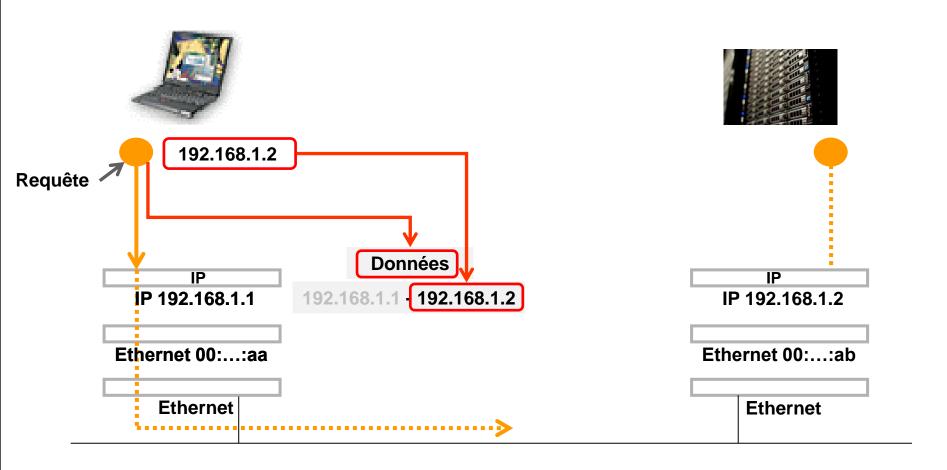


☐ Lancement d'une requête applicative du client vers le serveur



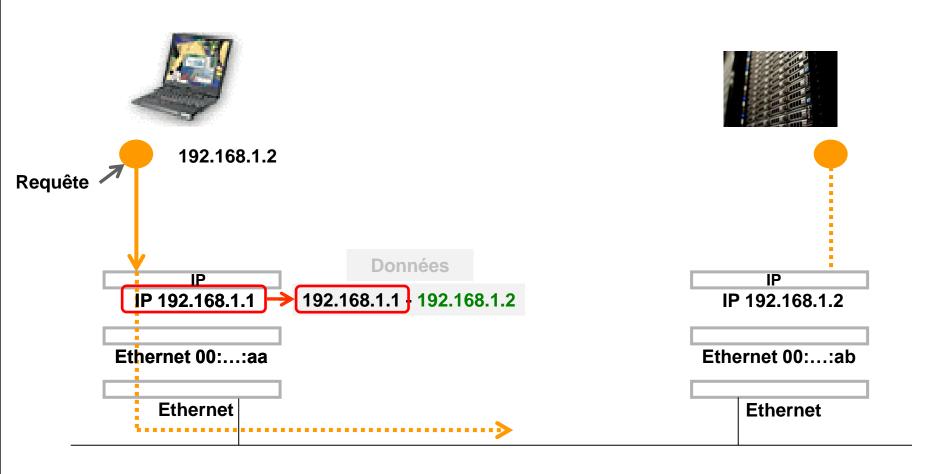


☐ Construction du datagramme IP



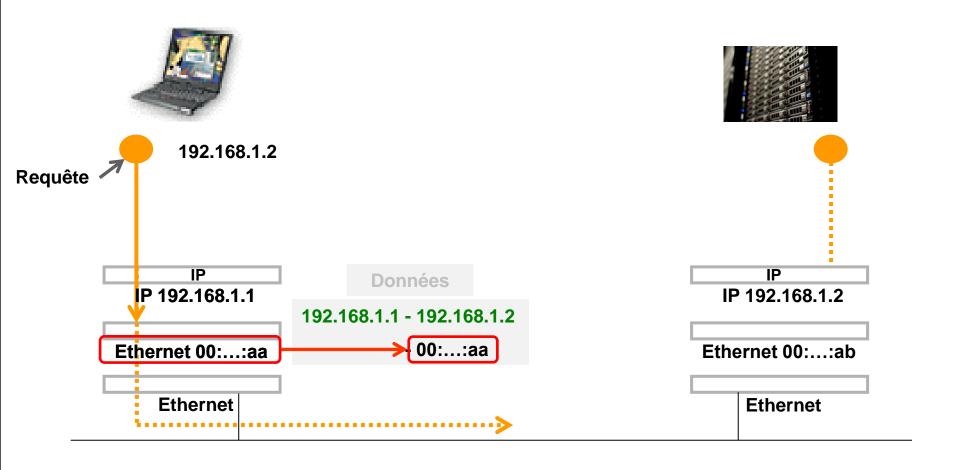


☐ Construction du datagramme IP



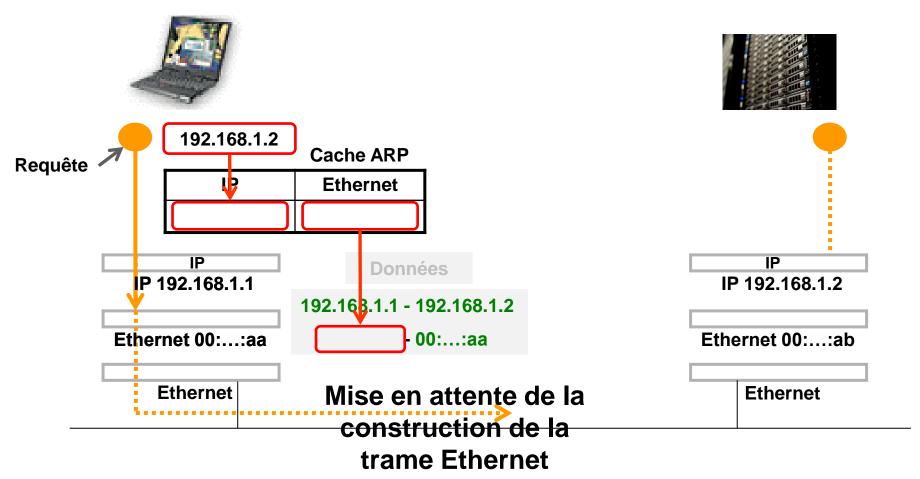


☐ Construction de la trame Ethernet

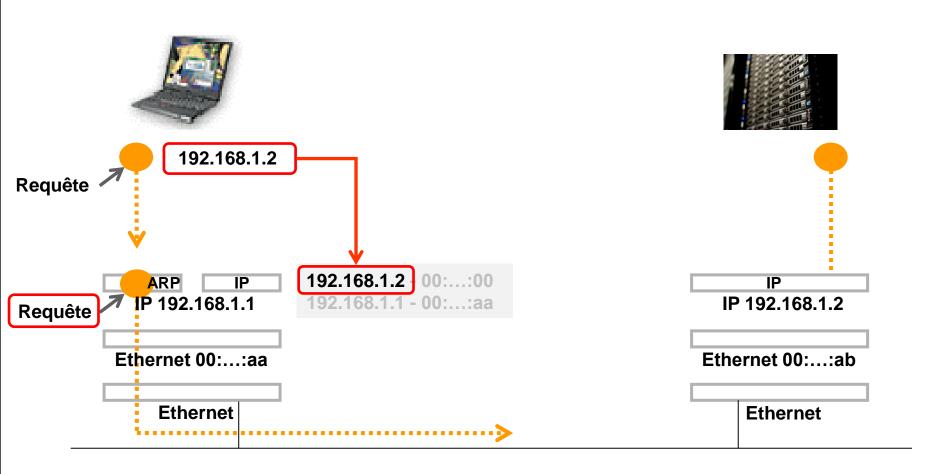




☐ Consultation du cache ARP afin de construire la trame Ethernet



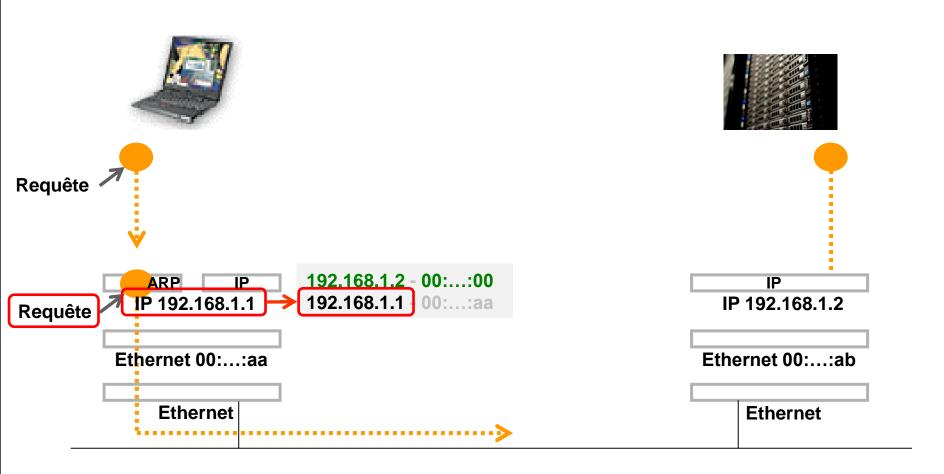




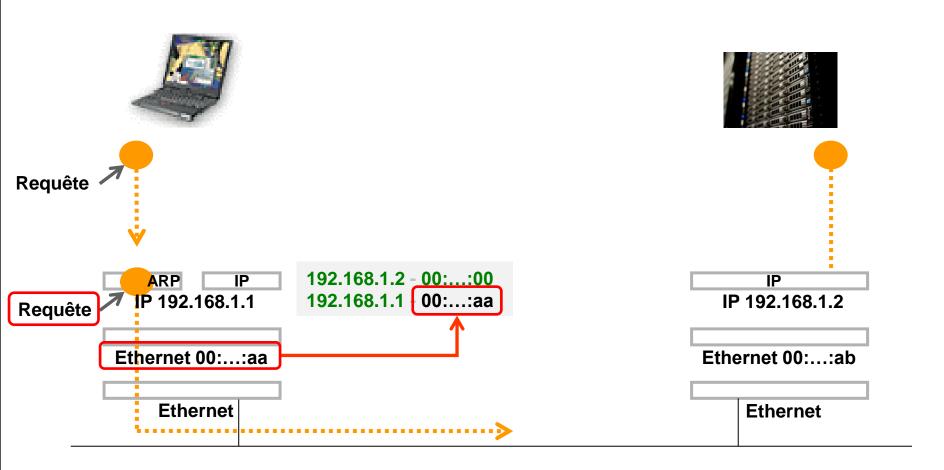






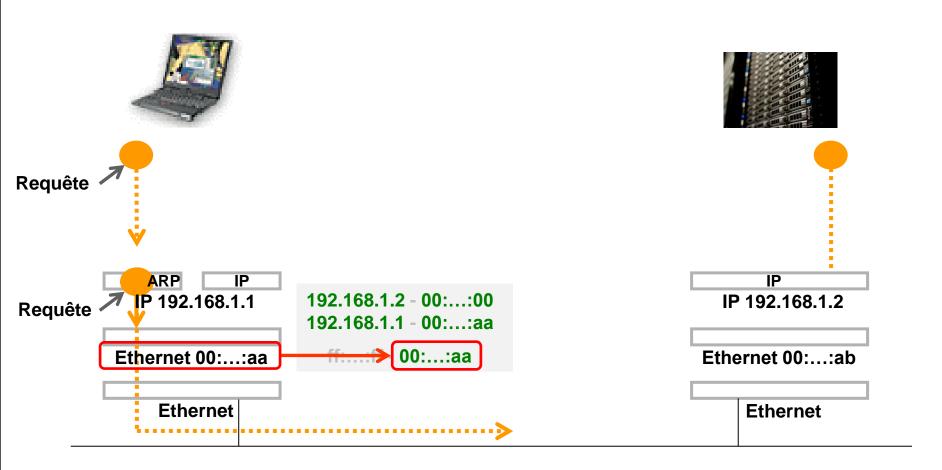






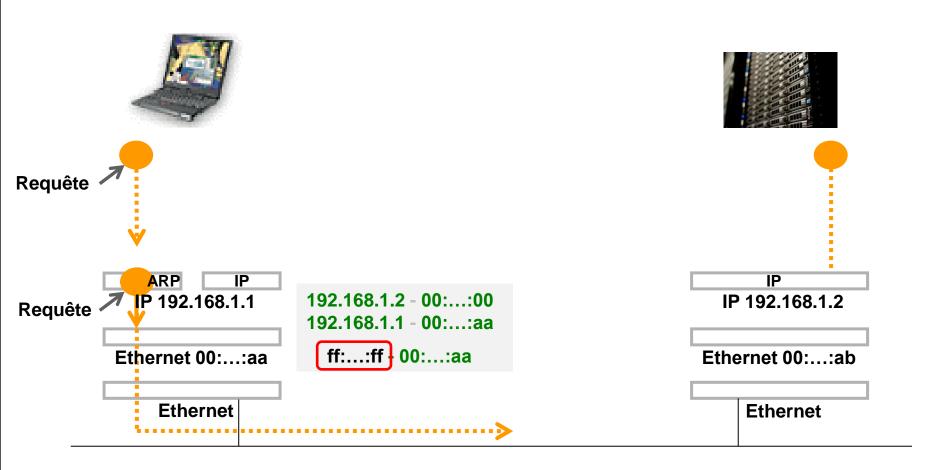


☐ Construction de la trame Ethernet pour transporter la requête ARP



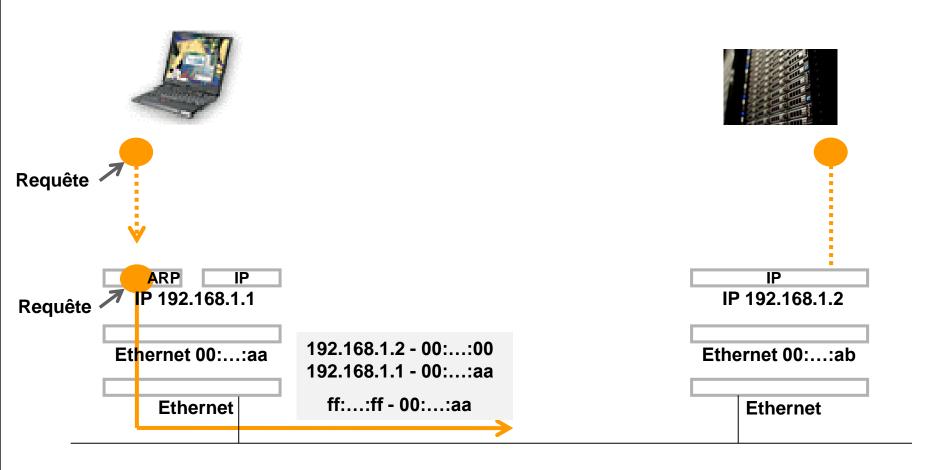


☐ Construction de la trame Ethernet pour transporter la requête ARP



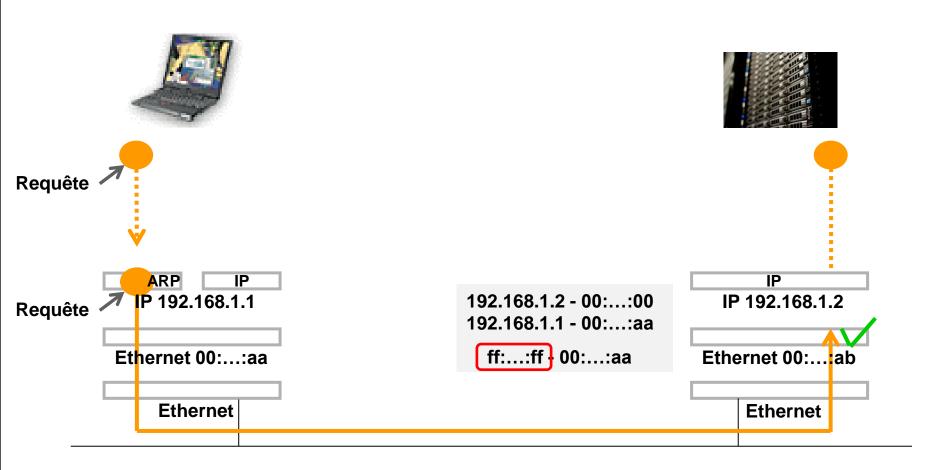


☐ Emission de la trame Ethernet contenant la requête ARP



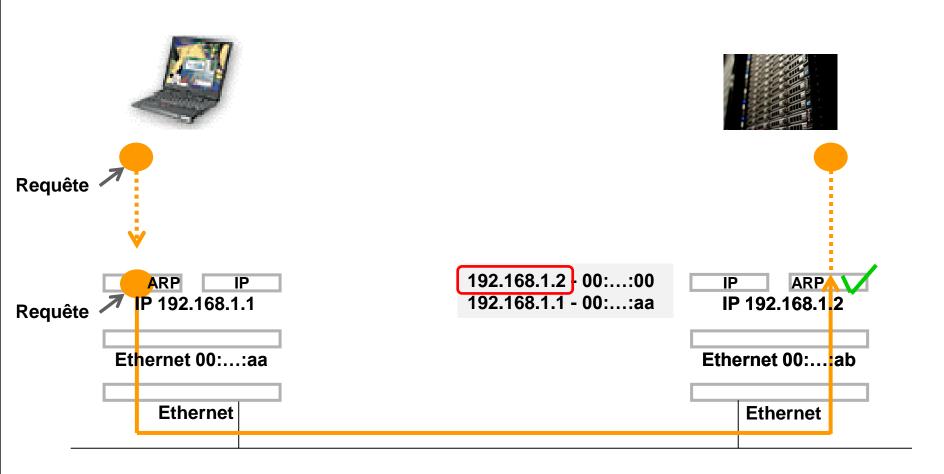


☐ Réception de la trame Ethernet contenant la requête ARP



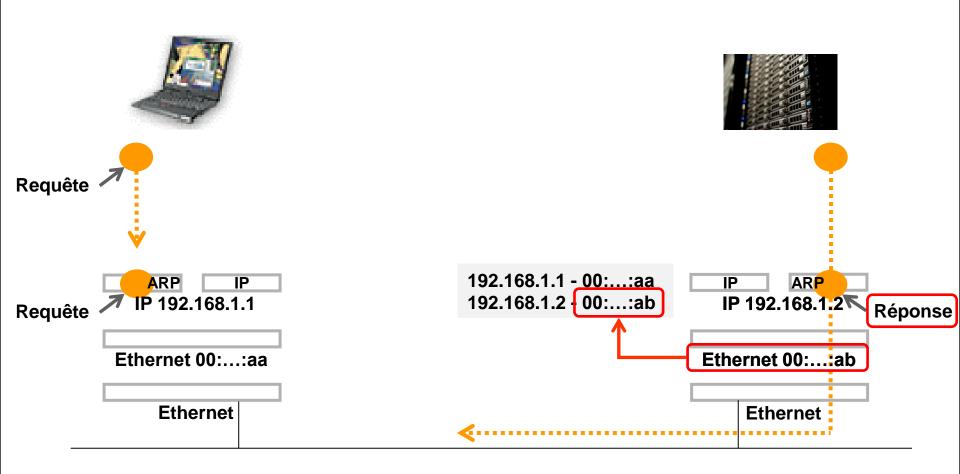


☐ Réception de la requête ARP



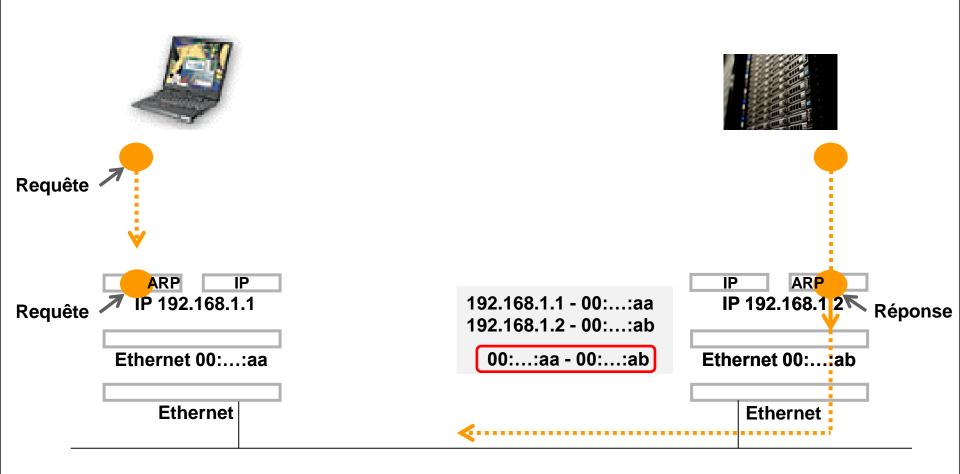


☐ Construction d'une réponse pour fournir l'adresse Ethernet au client



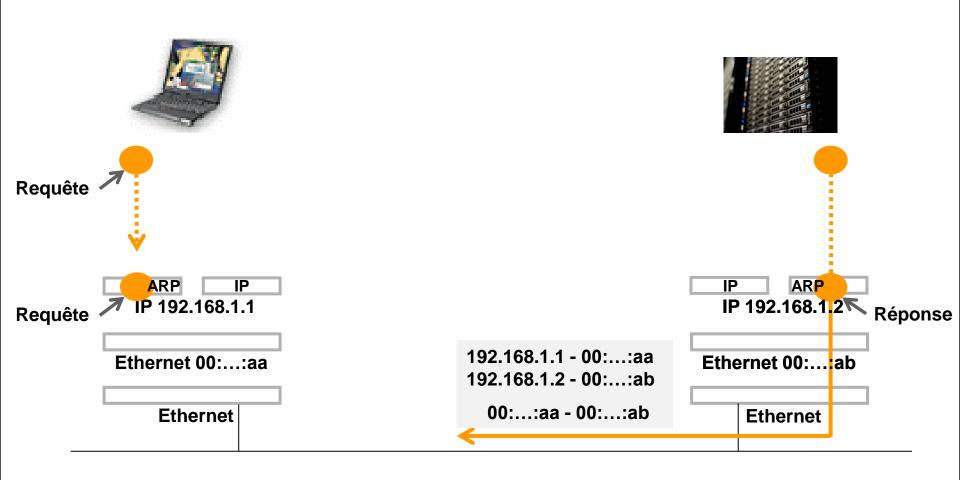


☐ Construction de la trame Ethernet pour transporter la réponse ARP



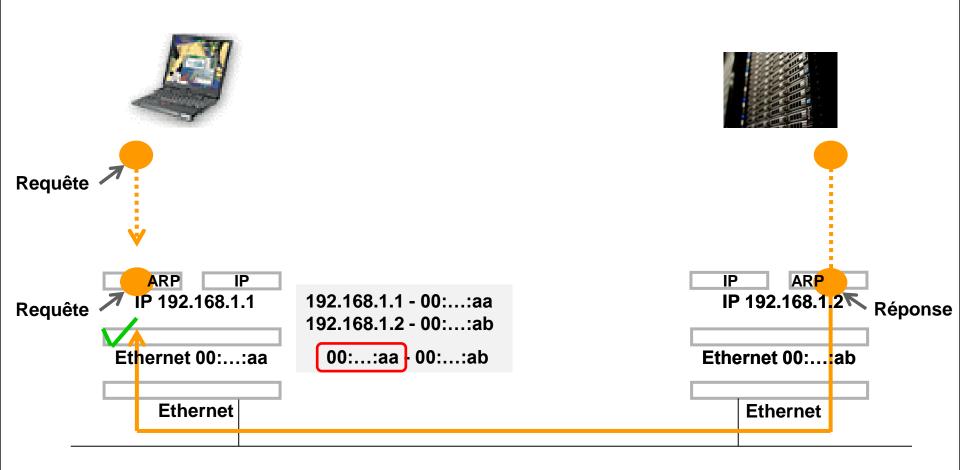


Emission de la trame Ethernet contenant la réponse ARP



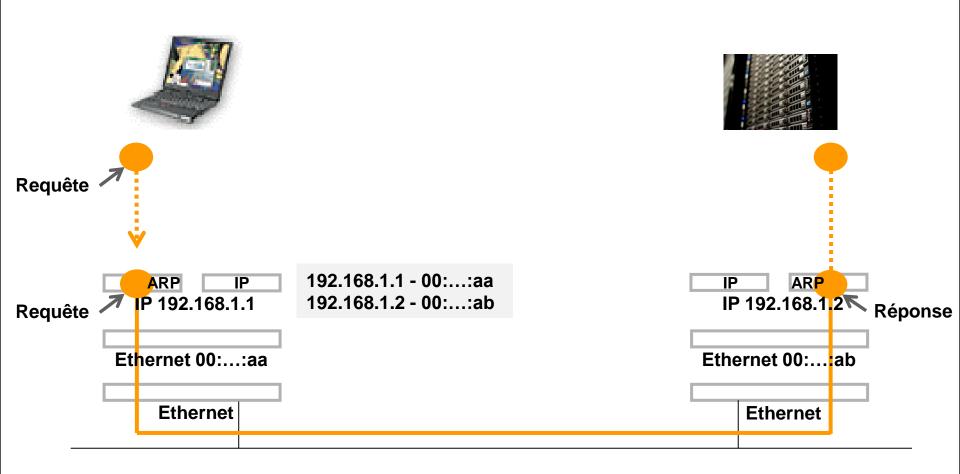


☐ Réception de la trame Ethernet contenant la réponse ARP



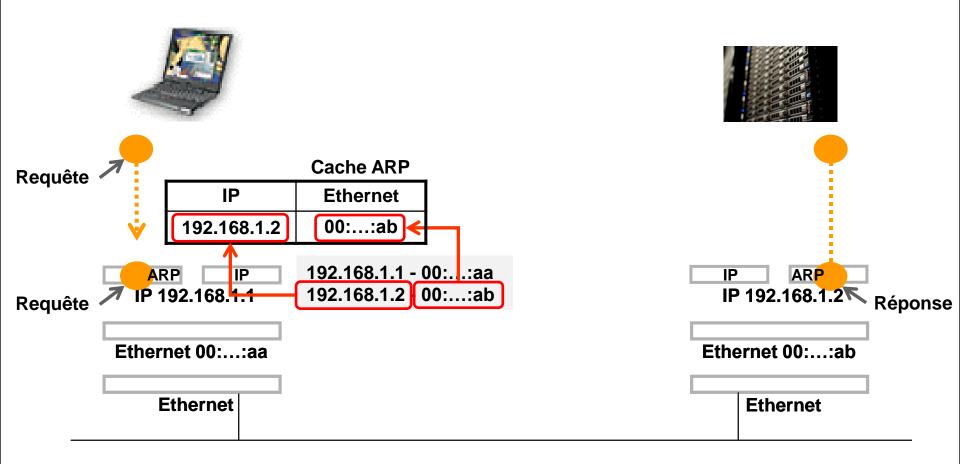


☐ Réception de la réponse ARP



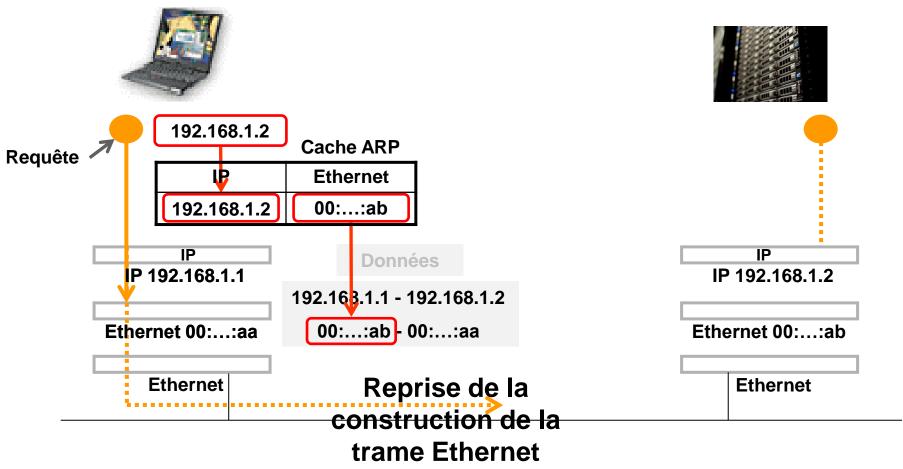


☐ Mise à jour du cache ARP du client



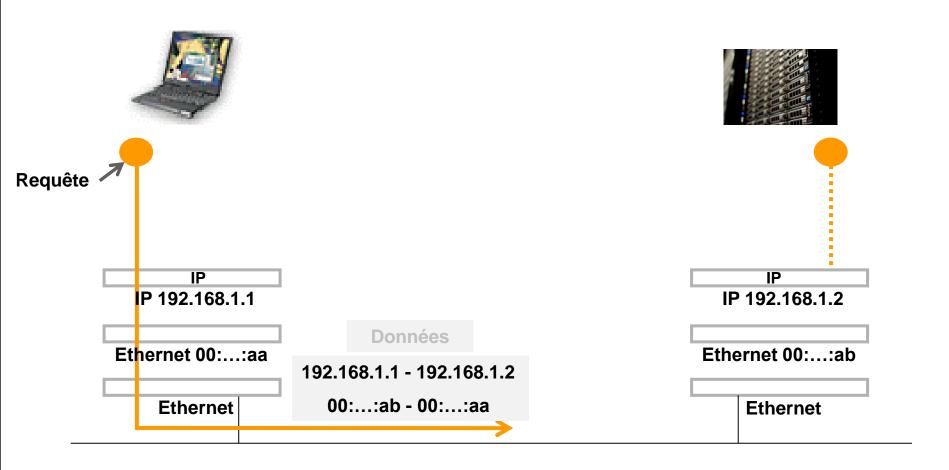


☐ Consultation du cache ARP afin de construire la trame Ethernet





☐ Emission de la trame Ethernet contenant le datagramme IP





Fin.