	BTS SIO Services Informatiques aux Organisations	
H3 Campus	**Option**	SISR
	Session	**2021/22**

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NATURE DE L'ACTIVITE	Déploiement d'un serveur LDAP Active Directory
Contexte	Atelier en classe
Objectifs	Passer d'une infrastructure pair à pair (WORKGROUP) vers une gestion centralisée des utilisateurs
Lieu de réalisation	H3 Campus Poissy

SOLUTIONS ENVISAGEABLES
- Déployer le rôle « Active Directory » sur une VM Windows server. Depuis une VM cliente, rejoindre le domaine géré par le serveur AD.

DESCRIPTION DE LA SOLUTION RETENUE	
Conditions initiales	VM Windows Server 2021 sans AD. VM Windows 10 dans le domaine "WORKGROUP".
Conditions finales	Domaine Active Directory déployé, avec la VM client Windows 10 intégrée au domaine
Outils utilisés	VMware Fusion Pro, Gestionnaire de serveur Windows Server, Active directory

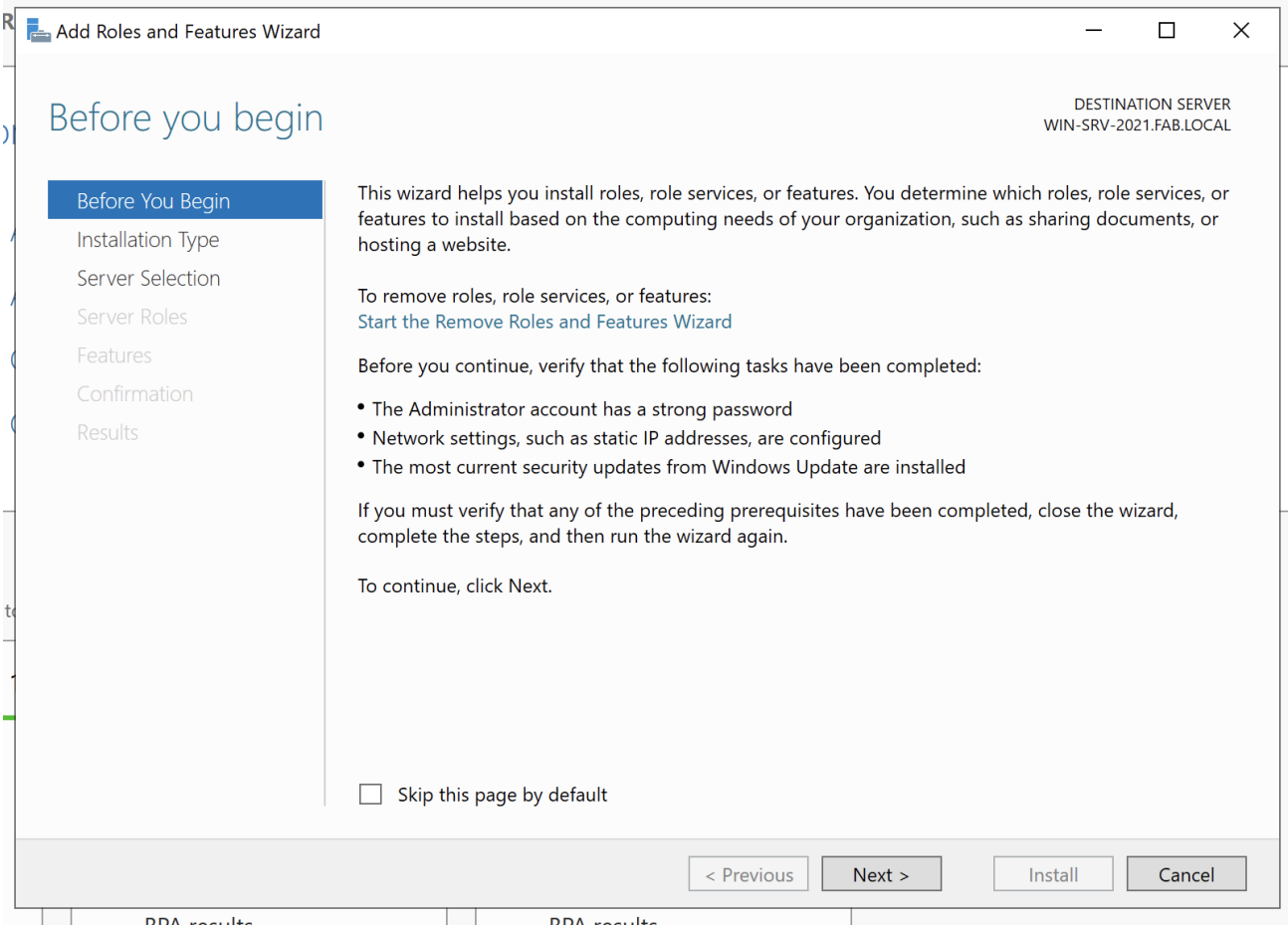
CONDITIONS DE REALISATION	
Matériels	Macbook Pro 13'
Logiciels	VMware Fusion Pro, Windows Server 2021, Windows 10
Durée	4h
Contraintes	/

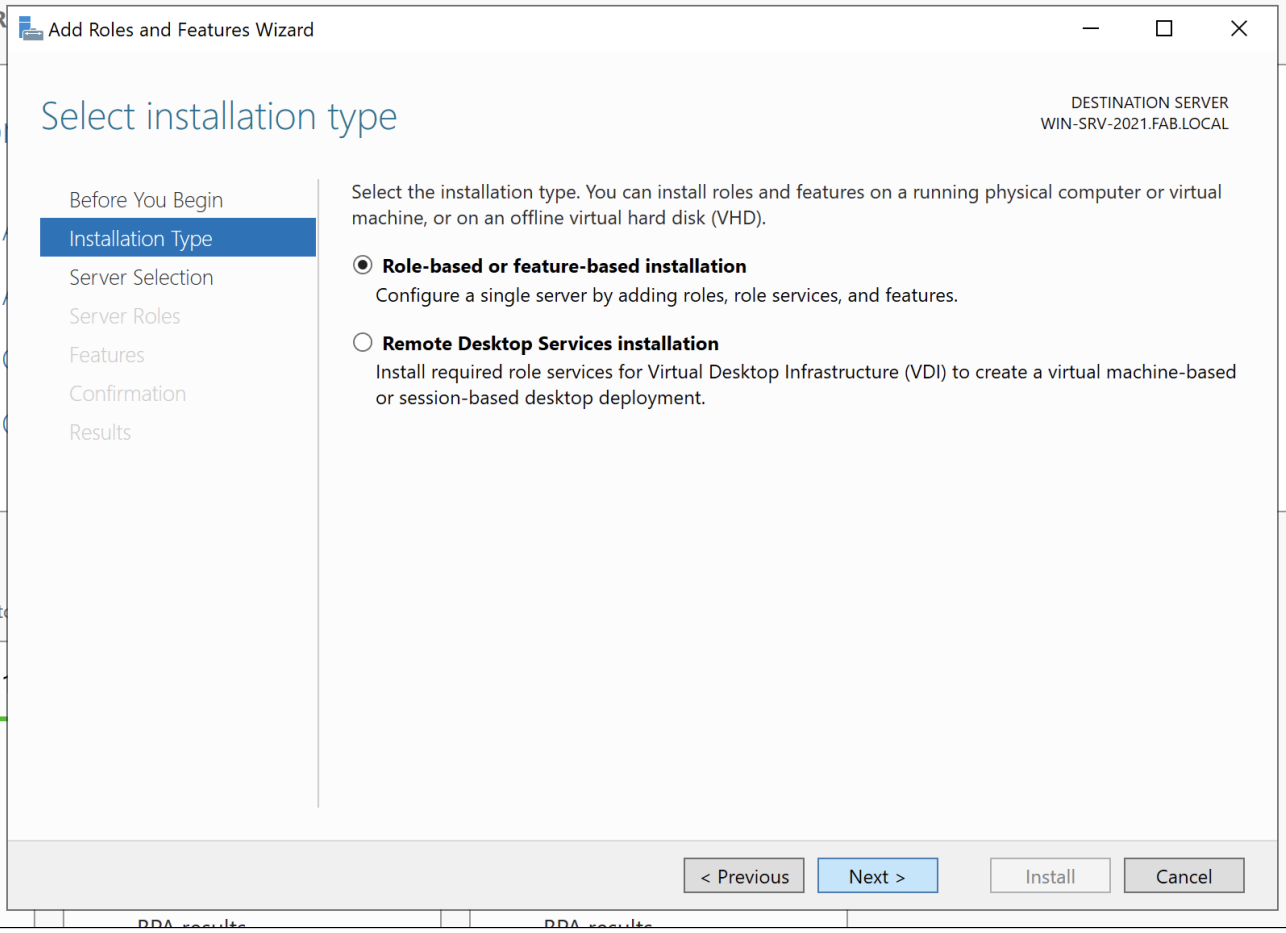
COMPETENCES MISES EN OEUVRE POUR CETTE ACTIVITE PROFESSIONNELLE	
Code	Intitulé
Mettre à disposition des utilisateurs un service informatique	▸ Réaliser les tests d'intégration et d'acceptation d'un service ▸ Déployer un service

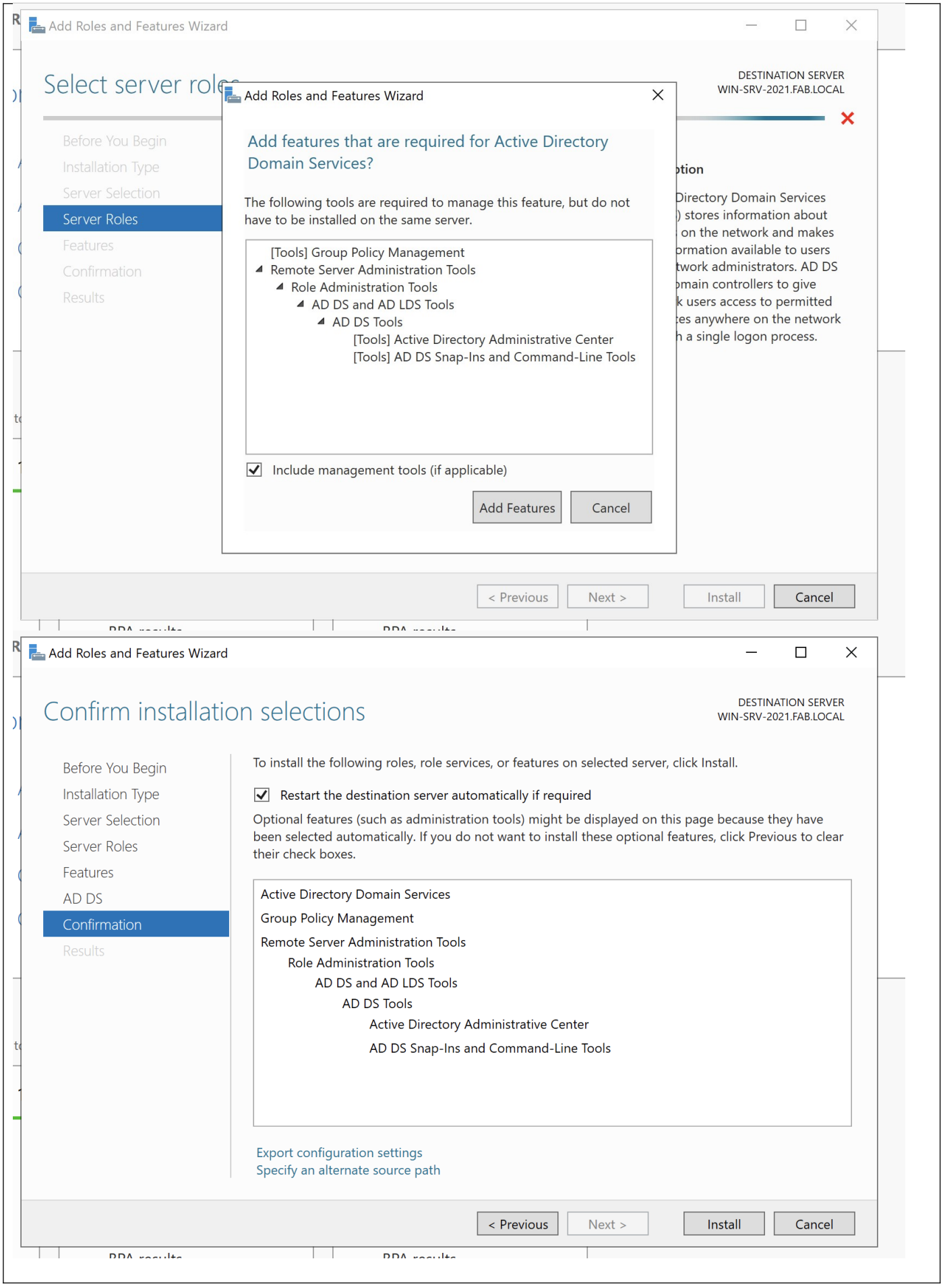
DEROULEMENT DE L'ACTIVITE

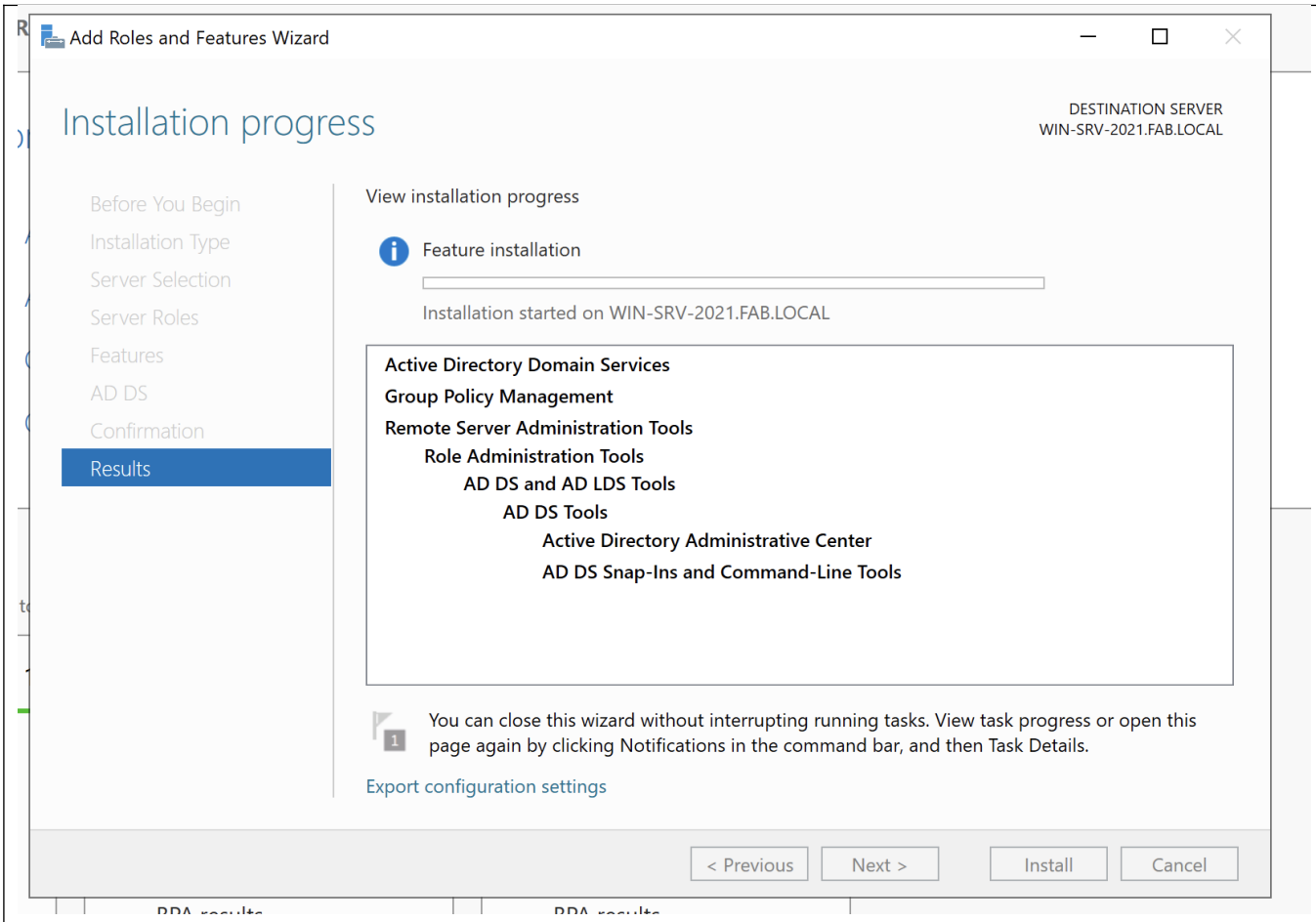
Mes 2 machines virtuelles sont connectées via la « connexion privée » et sont configurées avec une ip statique :
Windows Server : 192.168.1.100
Windows 10 : 192.168.1.200

<u>Déploiement du rôle « AD/DS »</u>
Dans la VM Windows Server, utiliser le gestionnaire de serveur pour déployer le rôle Active Directory comme indiqué sur les captures suivantes :

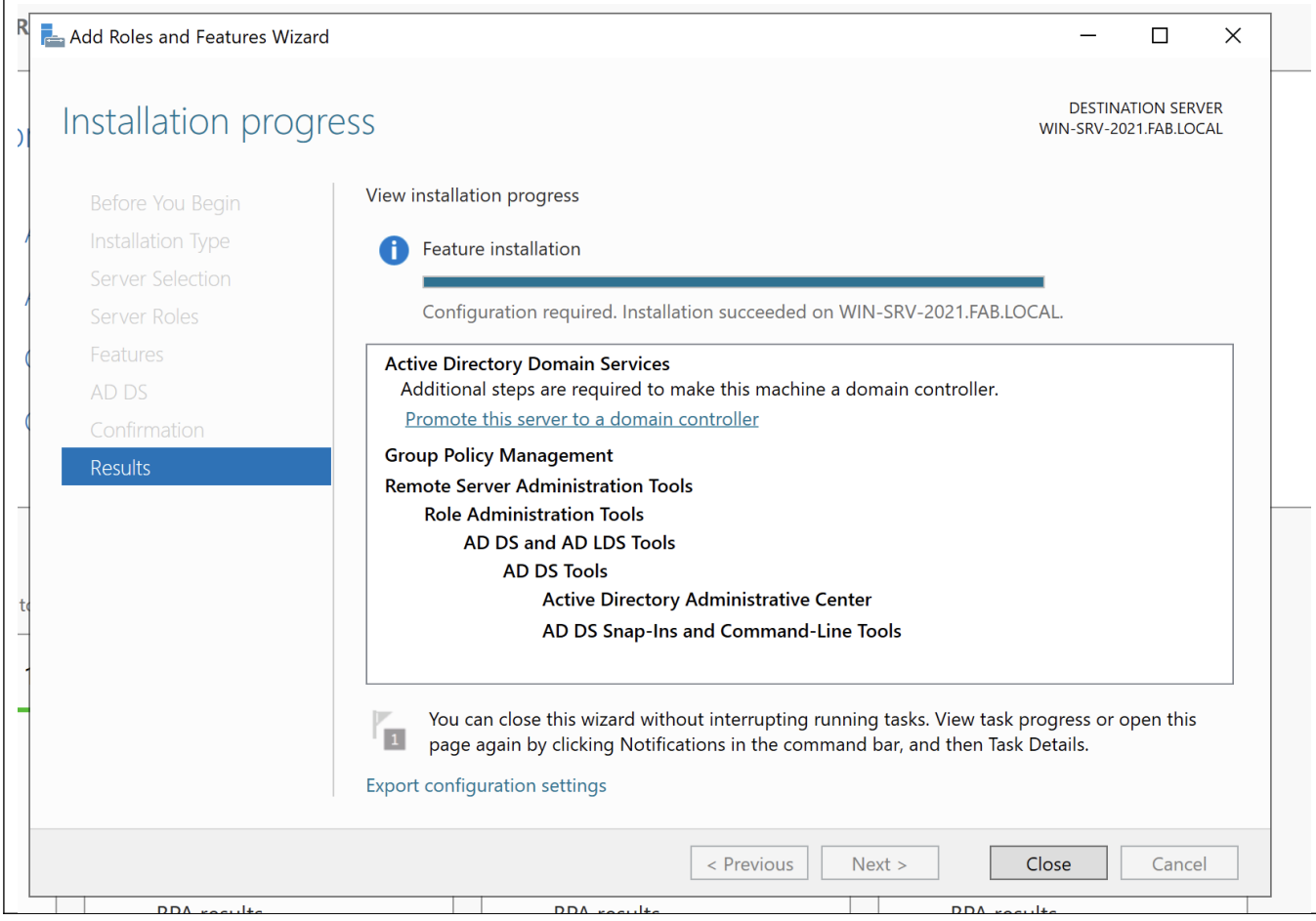

Add Roles and Features Wizard
Before you begin
DESTINATION SERVER
WIN-SRV-2021.FAB.LOCAL
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
To remove roles, role services, or features:
Start the Remove Roles and Features Wizard
Before you continue, verify that the following tasks have been completed:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The most current security updates from Windows Update are installed
If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel

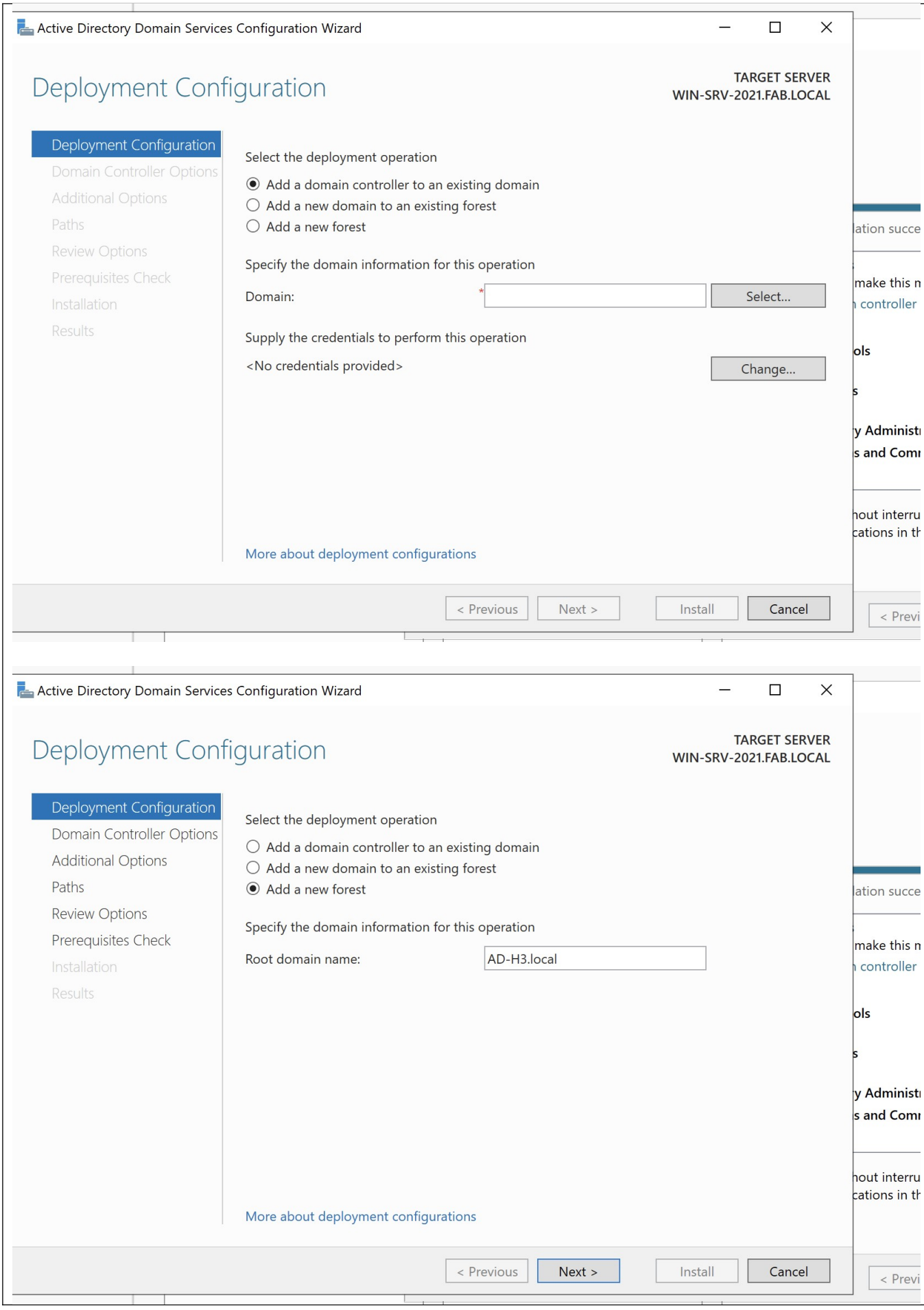

Add Roles and Features Wizard
Select installation type
DESTINATION SERVER
WIN-SRV-2021.FAB.LOCAL
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).
Role-based or feature-based installation
Configure a single server by adding roles, role services, and features.
Remote Desktop Services installation
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
< Previous
Next >
Install
Cancel

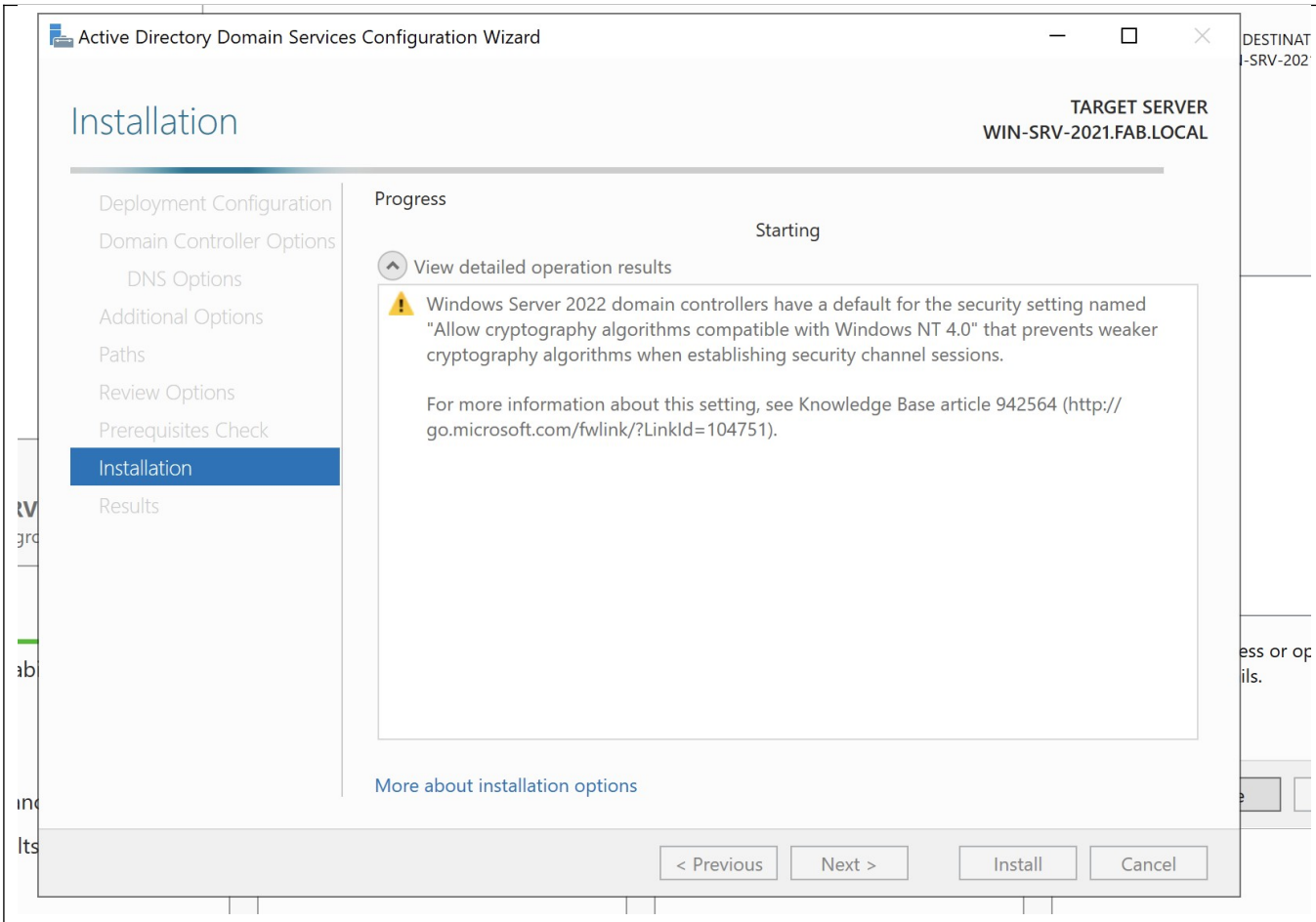

Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
WIN-SRV-2021.FAB.LOCAL
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Add Roles and Features Wizard
Add features that are required for Active Directory Domain Services?
The following tools are required to manage this feature, but do not have to be installed on the same server.
[Tools] Group Policy Management
Remote Server Administration Tools
Role Administration Tools
AD DS and AD LDS Tools
AD DS Tools
[Tools] Active Directory Administrative Center
[Tools] AD DS Snap-Ins and Command-Line Tools
Include management tools (if applicable)
Add Features
Cancel
< Previous
Next >
Install
Cancel
Add Roles and Features Wizard
Confirm installation selections
DESTINATION SERVER
WIN-SRV-2021.FAB.LOCAL
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
Confirmation
Results
To install the following roles, role services, or features on selected server, click Install.
Restart the destination server automatically if required
Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.
Active Directory Domain Services
Group Policy Management
Remote Server Administration Tools
Role Administration Tools
AD DS and AD LDS Tools
AD DS Tools
Active Directory Administrative Center
AD DS Snap-Ins and Command-Line Tools
Export configuration settings
Specify an alternate source path
< Previous
Next >
Install
Cancel



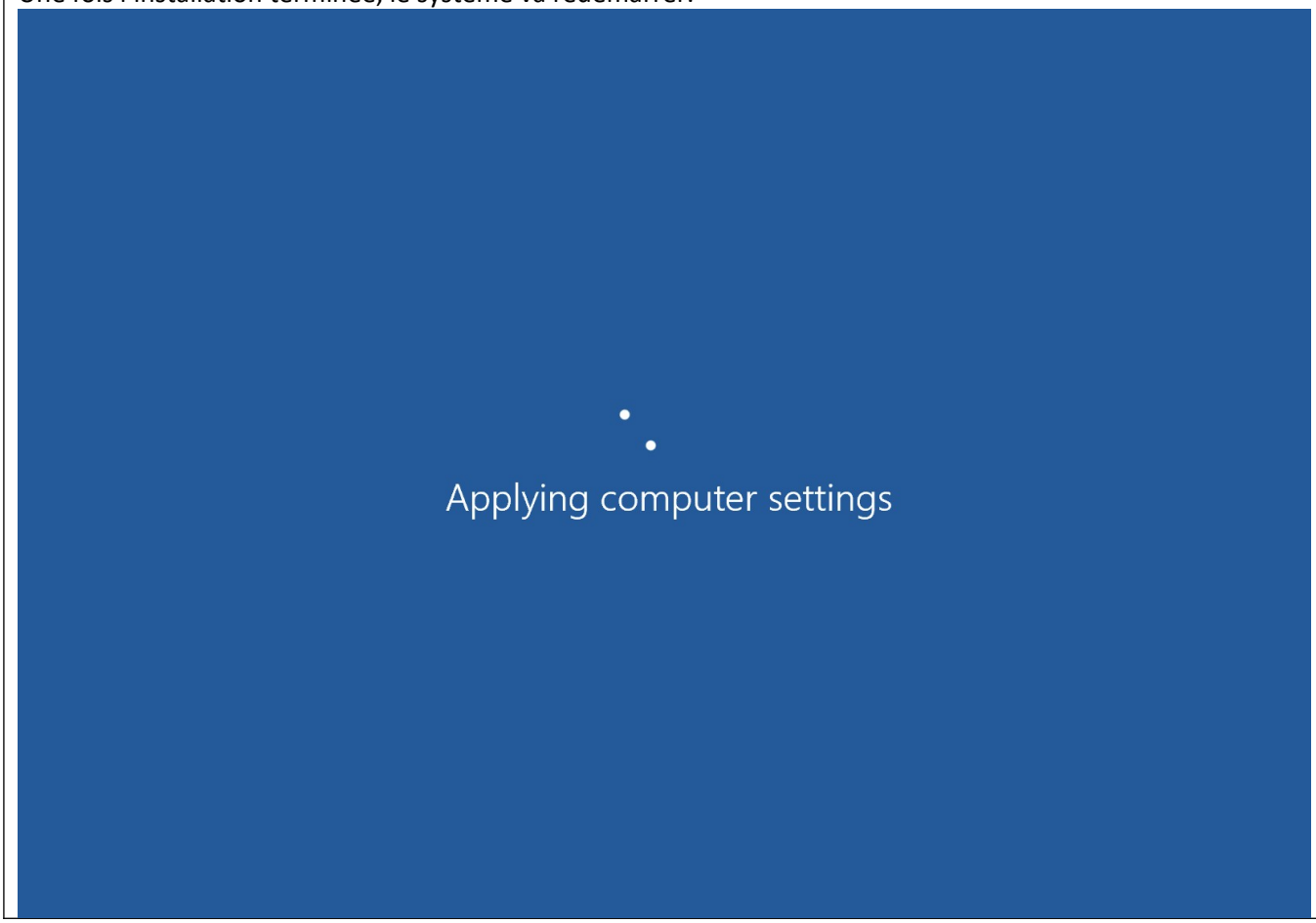
Une fois l'installation terminée, il faut promouvoir le serveur comme contrôleur de domaine :




Active Directory Domain Services Configuration Wizard
Deployment Configuration
TARGET SERVER
WIN-SRV-2021.FAB.LOCAL
Deployment Configuration
Domain Controller Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Select the deployment operation
Add a domain controller to an existing domain
Add a new domain to an existing forest
Add a new forest
Specify the domain information for this operation
Domain:
Select...
Supply the credentials to perform this operation
<No credentials provided>
Change...
More about deployment configurations
< Previous
Next >
Install
Cancel
Active Directory Domain Services Configuration Wizard
Deployment Configuration
TARGET SERVER
WIN-SRV-2021.FAB.LOCAL
Deployment Configuration
Domain Controller Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Select the deployment operation
Add a domain controller to an existing domain
Add a new domain to an existing forest
Add a new forest
Specify the domain information for this operation
Root domain name:
AD-H3.local
More about deployment configurations
< Previous
Next >
Install
Cancel

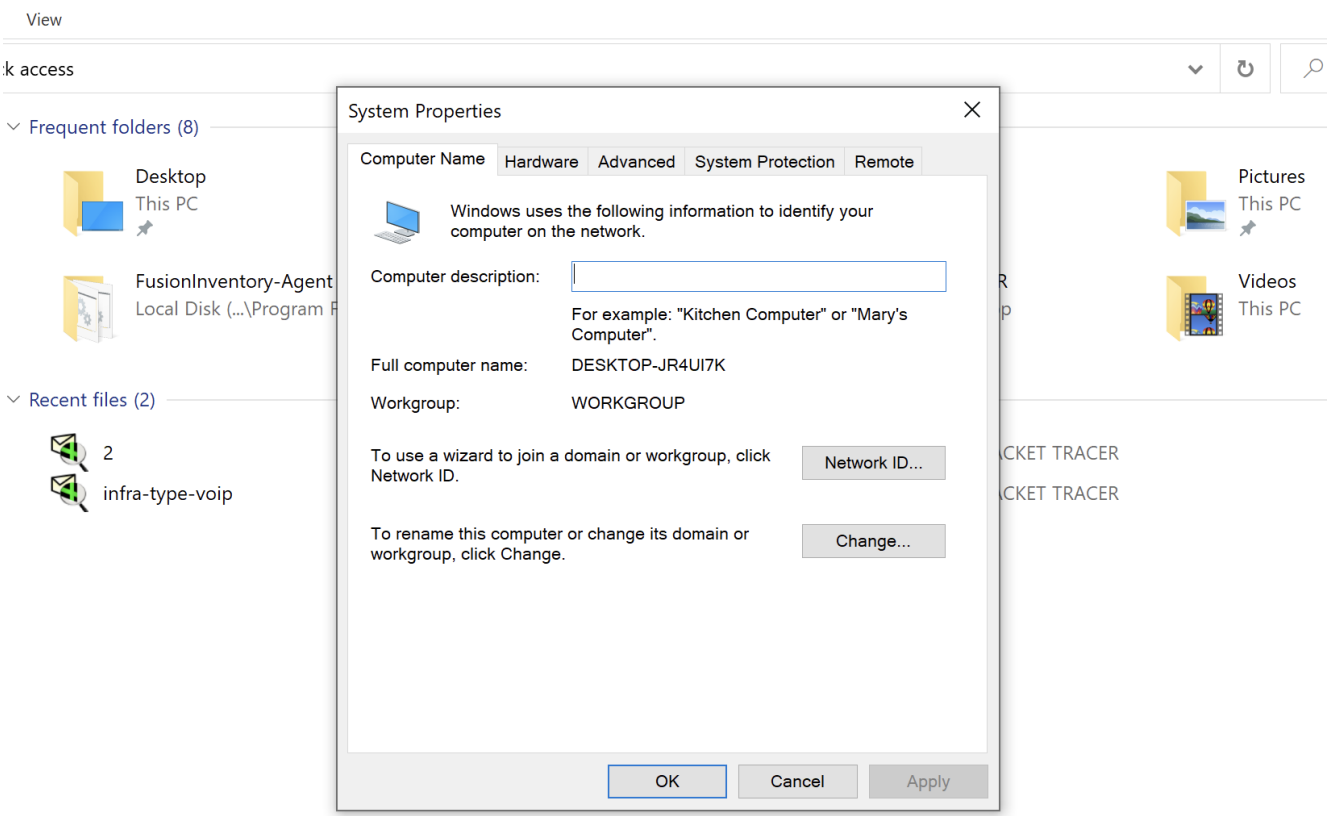


Une fois l'installation terminée, le système va redémarrer.

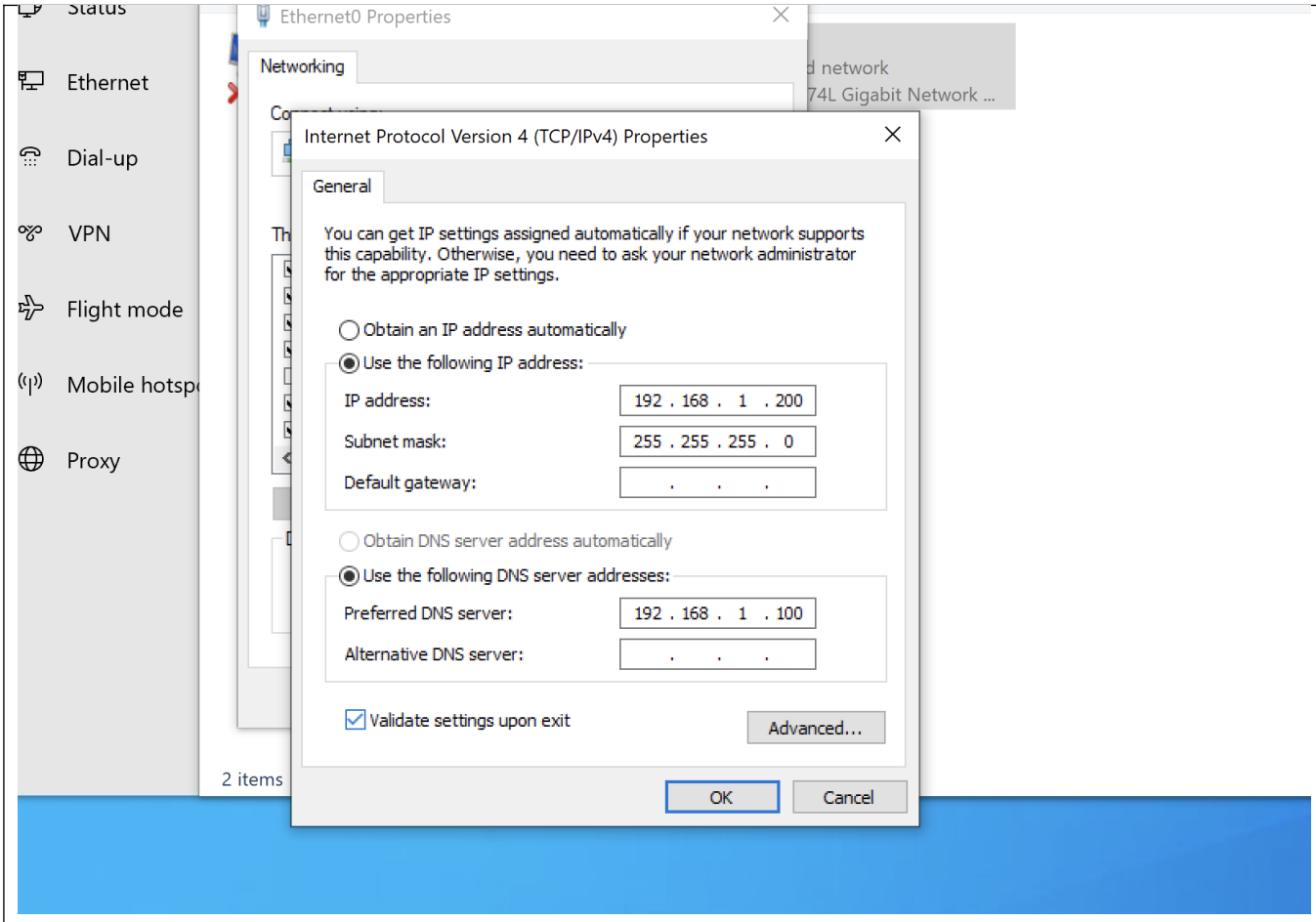


Rejoindre le domaine créé :

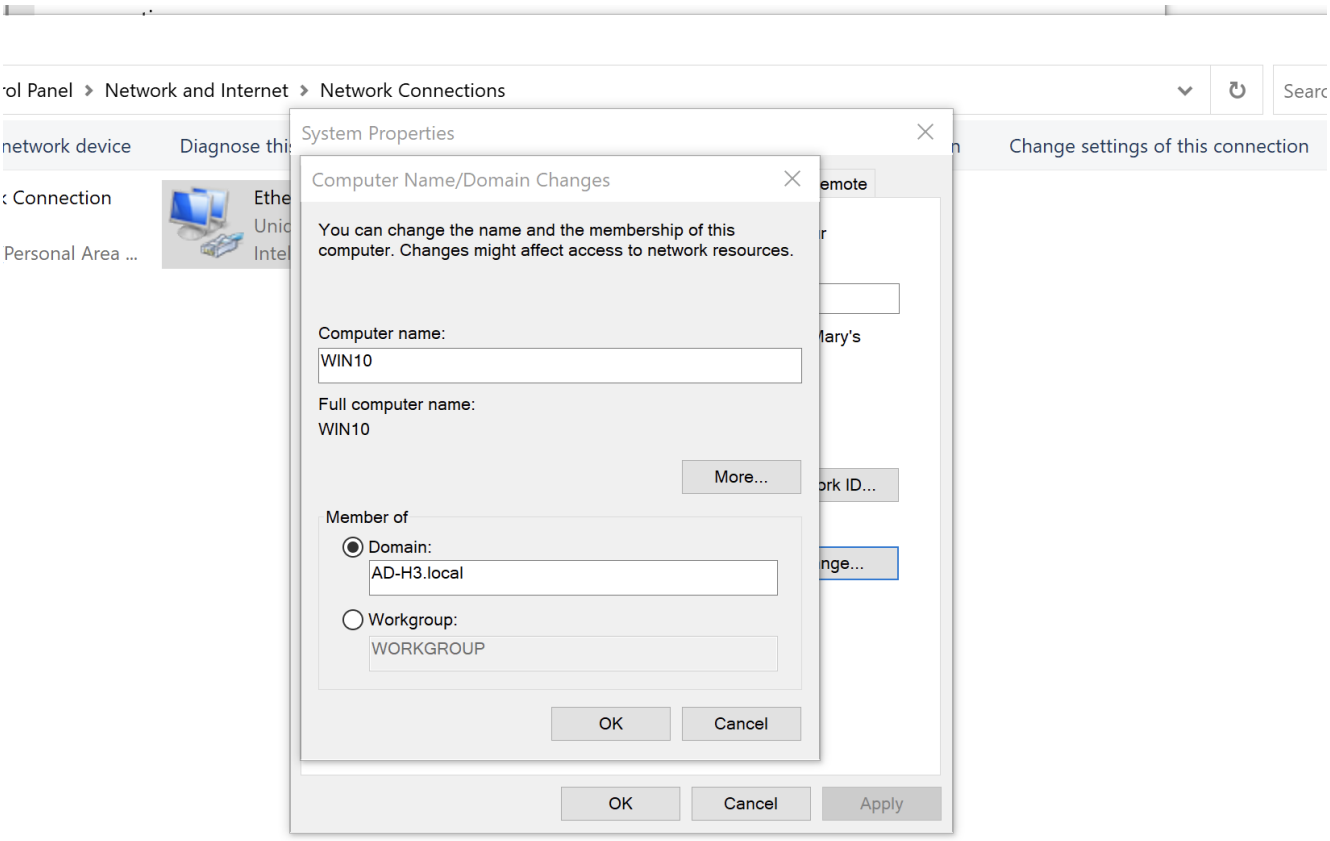
Sur la machine Windows 10, on peut voir que par défaut Windows est sur le domaine « WORKGROUP » :

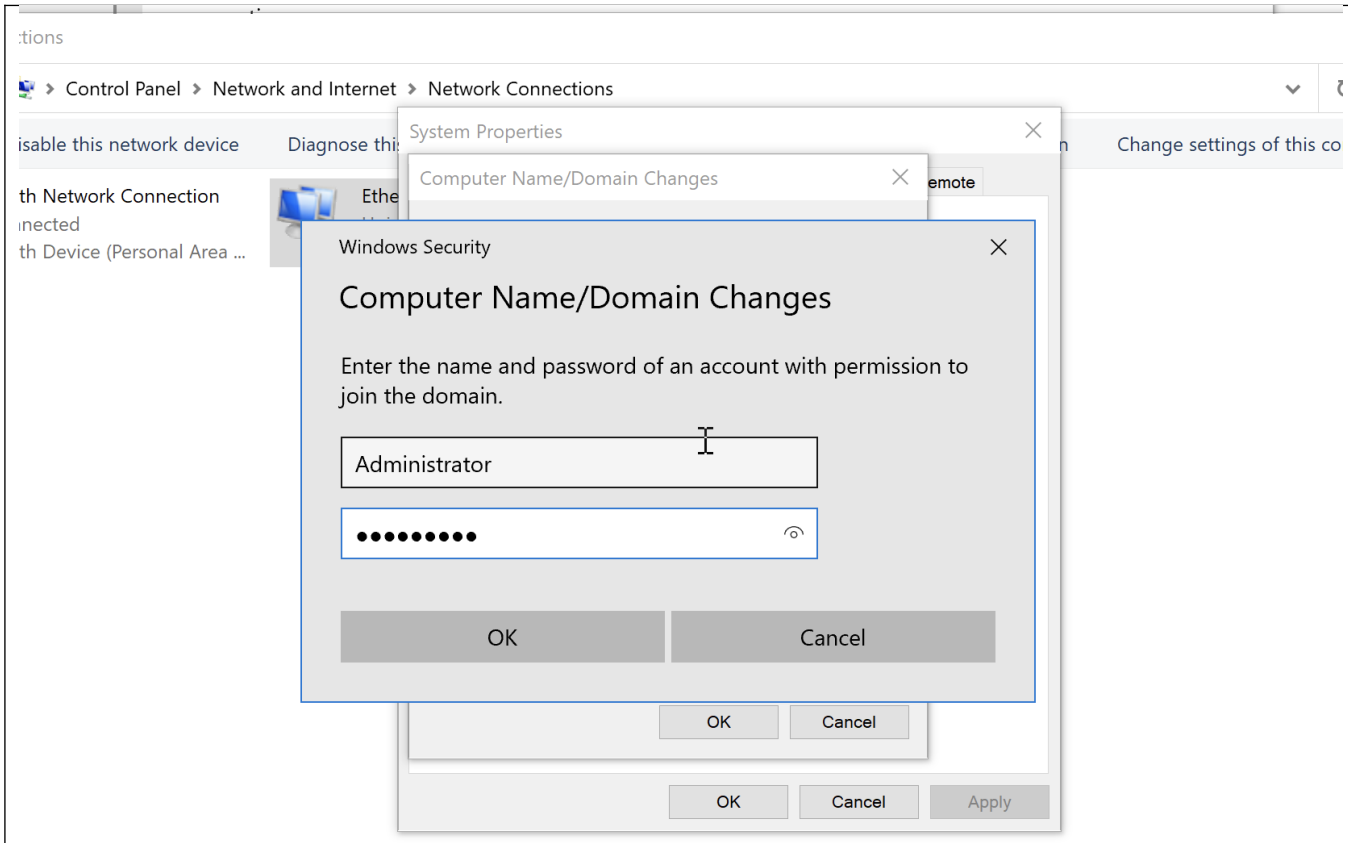


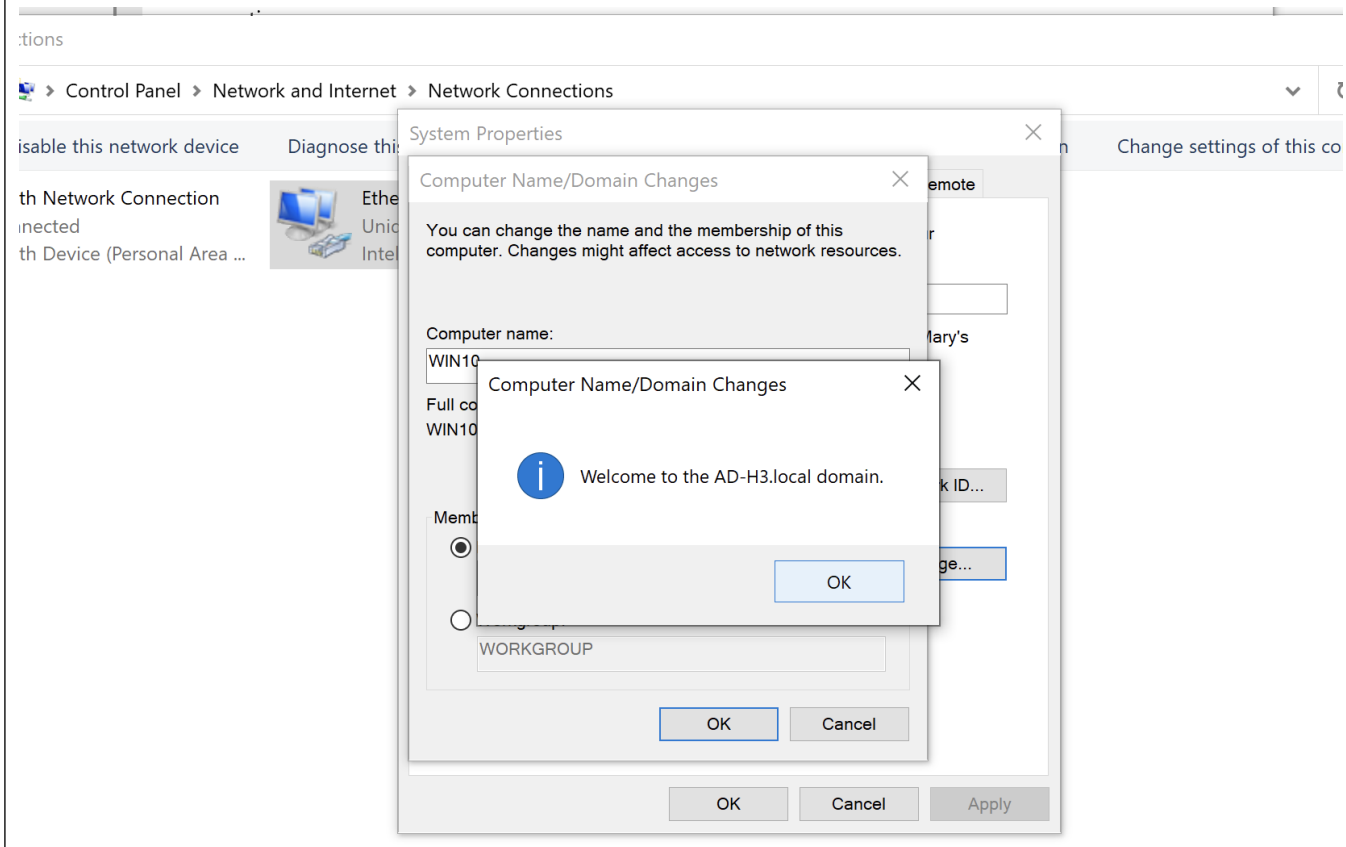
Avant de procéder au rattachement, on va pointer nos DNS vers le serveur AD :



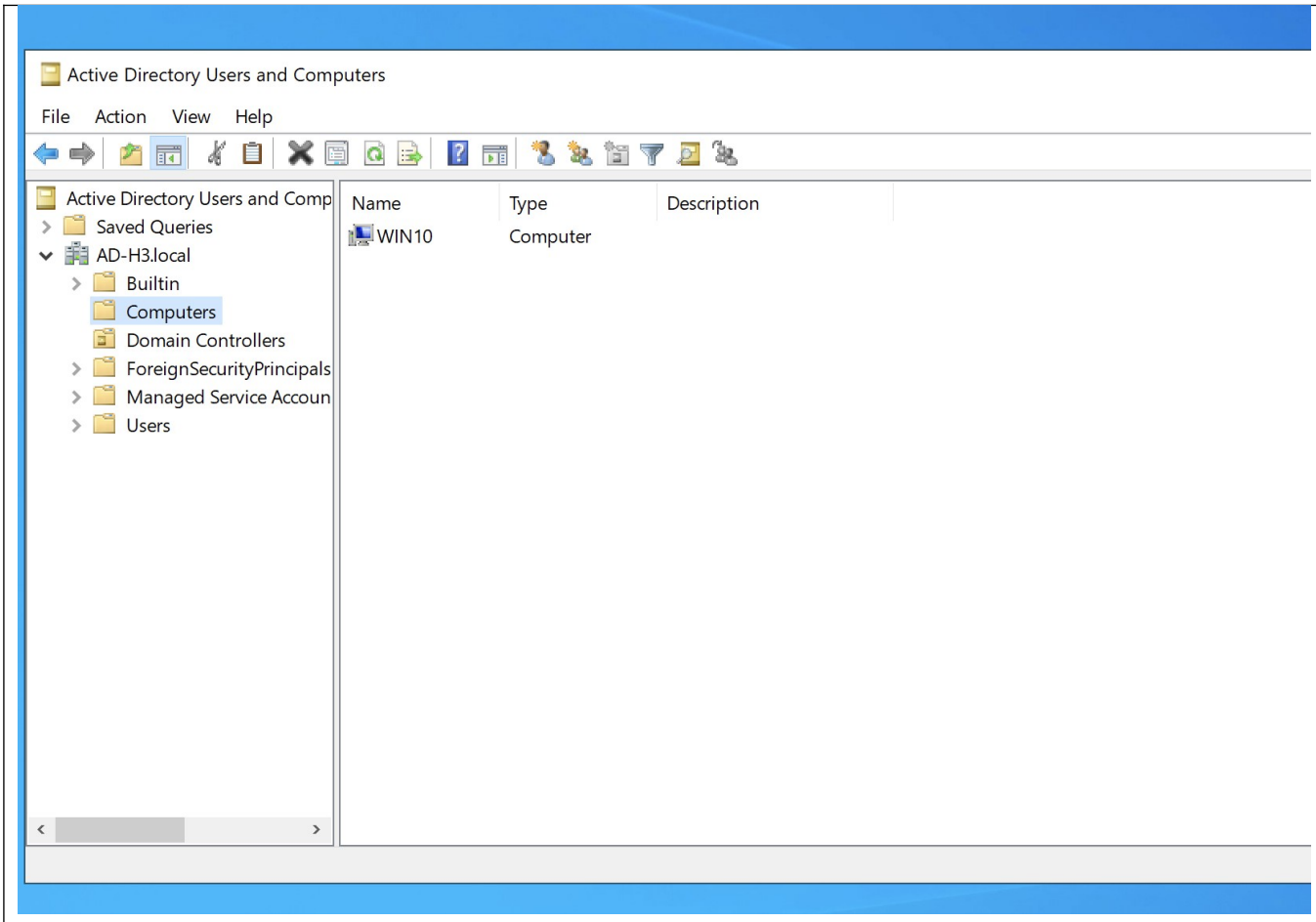
Une fois cela fait, on ajoute l'ordinateur au domaine :







Le pc va alors redémarrer. Pour vérifier l'installation, on regarde dans le gestionnaire Active Directory du serveur :



On peut voir que notre machine cliente a bien été intégrée au domaine. L'opération est donc concluante.

CONCLUSION

Un domaine Active Directory permet la gestion des utilisateurs de façon centralisée. Sa mise en place est rapide et simple. Lorsqu'une entreprise à beaucoup d'employés cette configuration simplifie la gestion de leur comptes utilisateurs.

EVOLUTION POSSIBLE

Possibilité de créer un second serveur AD redondant afin de garantir une plus haute disponibilité de service.