

Compte Rendu Azure

Création de la VM WIKIJS

Voici des paramètres à inclure ou à modifier dans le cadre de la création de la VM :

- Groupe de ressources (ici Pool-TP-R5)
- Nom de la VM (ici VM-WIKIJS)
- Région : Norway East
- Image : Rocky Linux 9 with LVM – x64 de 2e génération
- Taille : Standard_B1s – 1 processeur virtuel, 1Gio de mémoire
- Port d'entrée pour l'adm
- Port d'entrée pour administration : SSH (22)
- Disque : HDD

Installation de WikiJS

On commence par exécuter ces commandes :

- `sudo groupadd --system wiki` (création d'un groupe system appelé wiki)
- `sudo useradd -s /sbin/nologin --system -g wiki wiki` (ajout d'un utilisateur système pour le groupe wiki)
- `sudo yum install epel-release`

On crée un fichier swap pour résoudre les problèmes de mémoire :

```
[bludoh-joachim@VM-WIKIJS ~]$ sudo chmod 600 /swapfile
[bludoh-joachim@VM-WIKIJS ~]$ ls -lh /swapfile
-rw-----. 1 root root 1.0G Oct 31 15:03 /swapfile
[bludoh-joachim@VM-WIKIJS ~]$ sudo mkswap /swapfile
Setting up swapspace version 1, size = 1024 MiB (1073737728 bytes)
no label, UUID=57eb5f7e-91d8-4fa7-8578-d9396aedacc0
[bludoh-joachim@VM-WIKIJS ~]$ sudo swapon /swapfile
[bludoh-joachim@VM-WIKIJS ~]$ echo '/swapfile none swap sw 0 0' | sudo tee -a /etc/fstab
[bludoh-joachim@VM-WIKIJS ~]$ echo '/swapfile none swap sw 0 0' | sudo tee -a /etc/fstab
/swapfile none swap sw 0 0
```

Installation de nano :

```
[bludoh-joachim@VM-WIKIJS ~]$ sudo dnf install nano
Last metadata expiration check: 0:02:05 ago on Fri 07 Nov 2025 12:52:57 PM UTC.
Dependencies resolved.
=====
Package                Architecture      Version           Repository        Size
=====
Installing:
nano                   x86_64            5.6.1-7.el9      baseos            691 k
Transaction Summary
=====
Install 1 Package

Total download size: 691 k
Installed size: 2.7 M
Is this ok [y/N]: y
Downloading Packages:
nano-5.6.1-7.el9.x86_64.rpm                639 kB/s | 691 kB    00:01

Installed:
  nano-5.6.1-7.el9.x86_64
```

Lancement de la commande :

```
[bludoh-joachim@VM-WIKIJS ~]$ sudo yum install -y git vim wget curl unzip socat mariadb-server nodejs nginx redis
Last metadata expiration check: 0:06:05 ago on Fri 07 Nov 2025 12:52:57 PM UTC.
Package curl-7.76.1-31.el9.x86_64 is already installed.
Dependencies resolved.
=====
Package                Architecture      Version           Repository        Size
=====
Installing:
git                     x86_64            2.47.3-1.el9_6   appstream         50 k
mariadb-server         x86_64            3:10.5.27-1.el9_5.0.2 appstream        9.7 M
nginx                   x86_64            2:1.20.1-22.el9_6.3 appstream         36 k
nodejs                  x86_64            1:16.20.2-8.el9_4 appstream         111 k
redis                   x86_64            6.2.19-1.el9_6   appstream         1.3 M
socat                   x86_64            1.7.4.1-6.el9_6.1 appstream         299 k
unzip                   x86_64            6.0-58.el9_5     baseos            180 k
vim-enhanced            x86_64            2:8.2.2637-22.el9_6.1 appstream         1.7 M
wget                    x86_64            1.21.1-8.el9_4   appstream         768 k
Upgrading:
redis-6.2.19-1.el9_6.x86_64                7.76.1-31.el9_6.1.noarch | 140.82.121.4 | 443... connected.
socat-1.7.4.1-6.el9_6.1.x86_64              rocky-logos-httpd-90.16-1.el9.noarch
vim-common-2:8.2.2637-22.el9_6.1.x86_64     vim-enhanced-2:8.2.2637-22.el9_6.1.x86_64
vim-filessystem-2:8.2.2637-22.el9_6.1.noarch  wget-1.21.1-8.el9_4.x86_64

Complete!
[bludoh-joachim@VM-WIKIJS ~]$
```

Installation WikiJS :

```
[bludoh-joachim@VM-WIKIJS ~]$ cd ..
[bludoh-joachim@VM-WIKIJS home]$ cd ..
[bludoh-joachim@VM-WIKIJS /]$ ls
afs boot etc home lib64 mnt proc run srv sys usr
bin dev grub2 lib media opt root sbin swapfile tmp var
[bludoh-joachim@VM-WIKIJS /]$ pwd
/
[bludoh-joachim@VM-WIKIJS /]$ cd /srv
[bludoh-joachim@VM-WIKIJS srv]$ sudo mkdir wiki

[bludoh-joachim@VM-WIKIJS srv]$ sudo wget https://github.com/Requarks/wiki/releases/latest/download/wiki-js.tar.gz
--2025-11-07 13:12:15-- https://github.com/Requarks/wiki/releases/latest/download/wiki-js.tar.gz
Resolving github.com (github.com)... 140.82.121.4
Connecting to github.com (github.com)|140.82.121.4|:443... connected.
HTTP request sent, awaiting response... 302 Found
```

```
Length: 84933287 (81M) [application/octet-stream]
Saving to: 'wiki-js.tar.gz'

wiki-js.tar.gz      100%[=====>] 81.00M  106MB/s  in 0.8s
2025-11-07 13:12:16 (106 MB/s) - 'wiki-js.tar.gz' saved [84933287/84933287]

[bludoh-joachim@VM-WIKIJS srv]$ sudo tar xzf wiki-js.tar.gz -C ./wiki
[bludoh-joachim@VM-WIKIJS srv]$ |

[bludoh-joachim@VM-WIKIJS srv]$ cd ./wiki
[bludoh-joachim@VM-WIKIJS wiki]$ |
```

Démarrage et configuration de MySQL :

```
[bludoh-joachim@VM-WIKIJS wiki]$ sudo systemctl start mariadb
[bludoh-joachim@VM-WIKIJS wiki]$ mysql_secure_installation

Normally, root should only be allowed to connect from 'localhost'. This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n] Y
... Success!

By default, MariaDB comes with a database named 'test' that anyone can
access. This is also intended only for testing, and should be removed
before moving into a production environment.

Remove test database and access to it? [Y/n] Y
- Dropping test database...
... Success!
- Removing privileges on test database...
... Success!

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n] Y
... Success!

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB
installation should now be secure.

Thanks for using MariaDB!
[bludoh-joachim@VM-WIKIJS wiki]$ |
```

Authentication :

```
[bludoh-joachim@VM-WIKIJS wiki]$ mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 19
Server version: 10.5.27-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> |
MariaDB [(none)]> CREATE USER 'wiki'@'localhost' IDENTIFIED BY 'Def@ultP@ssword';
Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]> CREATE DATABASE dbwiki;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON dbwiki.* TO 'wiki'@'localhost';
Query OK, 0 rows affected (0.005 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)
```

SHOW DATABASES;

```
MariaDB [(none)]> CREATE USER 'wiki'@'localhost' IDENTIFIED BY 'Def@ultP@ssword';
Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]> CREATE DATABASE dbwiki;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON dbwiki.* TO 'wiki'@'localhost';
Query OK, 0 rows affected (0.005 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)
```

SHOW GRANTS;

```
MariaDB [(none)]> SHOW GRANTS FOR 'wiki'@'localhost';
+-----+
| Grants for wiki@localhost |
+-----+
| GRANT USAGE ON *.* TO `wiki`@`localhost` IDENTIFIED BY PASSWORD `*C0AD2B9E68C045E8F8DFDF291B516027F10FB114` |
| GRANT ALL PRIVILEGES ON `dbwiki`.* TO `wiki`@`localhost` |
+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [(none)]> exit
Bye
[bludoh-joachim@VM-WIKIJS ~]$ sudo systemctl enable --now redis
```

```
[bludoh-joachim@VM-WIKIJS ~]$ sudo systemctl enable --now redis
Created symlink /etc/systemd/system/multi-user.target.wants/redis.service → /usr/lib/systemd/system/redis.service.
```

```
[bludoh-joachim@VM-WIKIJS ~]$ systemctl status redis
● redis.service - Redis persistent key-value database
   Loaded: loaded (/usr/lib/systemd/system/redis.service; enabled; preset: disabled)
   Drop-In: /etc/systemd/system/redis.service.d
            └─limit.conf
   Active: active (running) since Fri 2025-11-07 13:48:56 UTC; 1min 6s ago
   Main PID: 20422 (redis-server)
   Status: "Ready to accept connections"
     Tasks: 5 (limit: 3972)
    Memory: 4.8M
       CPU: 119ms
    CGroup: /system.slice/redis.service
            └─20422 "/usr/bin/redis-server 127.0.0.1:6379"
```

```
Nov 07 13:48:56 VM-WIKIJS systemd[1]: Starting Redis persistent key-value database...
Nov 07 13:48:56 VM-WIKIJS systemd[1]: Started Redis persistent key-value database.
```

```
[bludoh-joachim@VM-WIKIJS ~]$ cd /srv/wiki
```

```
[bludoh-joachim@VM-WIKIJS wiki]$ |
```

```
[bludoh-joachim@VM-WIKIJS wiki]$ sudo cp config.sample.yml config.yml
```

```
[bludoh-joachim@VM-WIKIJS wiki]$ |
```

```
# -----
# Database
# -----
# Supported Database Engines:
# - postgres = PostgreSQL 9.5 or later
# - mysql = MySQL 8.0 or later (5.7.8 partially supported, refer to docs)
# - mariadb = MariaDB 10.2.7 or later
# - mssql = MS SQL Server 2012 or later
# - sqlite = SQLite 3.9 or later

db:
  type: mariadb

# PostgreSQL / MySQL / MariaDB / MS SQL Server only:
host: localhost
port: 3306
user: wiki
pass: Def@ultP@ssword
db: dbwiki
ssl: false
```

Joachim.Bludoh@gasto...
LYCEE GASTON BERGER

Ajouter une règle de sécurité de trafic e...

VM-WIKIJS-nsg

Source ⓘ
Any

Plages de ports sources * ⓘ
*

Destination ⓘ
Any

Service ⓘ
Custom

Plages de ports de destination * ⓘ
3000 ✓

Protocole
 Any
 TCP
 UDP
 ICMPv4
 ICMPv6

Action
 Autoriser
 Refuser

Priorité * ⓘ
310 ✓

Nom *
accesswiki ✓

Mise en place stratégie d'authentification

Création de la VM AD

^ Bases

[Vue JSON](#)

Groupe de ressources ([déplacer](#))

[VM-AD](#)

Statut

En cours d'exécution

Emplacement

Norway East (Zone 1)

Abonnement ([déplacer](#))

[Azure for Students](#)

ID d'abonnement

7d5ce8a7-786a-4587-b3e3-8cf9cfe67fe6

Zone de disponibilité

1

Système d'exploitation

Windows (Windows Server 2025 Datacent...

Taille

Standard B2s (2 processeurs virtuels, 4 Gio...

Adresse IP publique de la carte réseau principale

[131.163.88.94](#)

[1 adresses IP publiques associées](#)

Réseau/sous-réseau virtuel

[vnet-norwayeast-1/snet-norwayeast-1](#)

Nom DNS

[Non configurée](#)

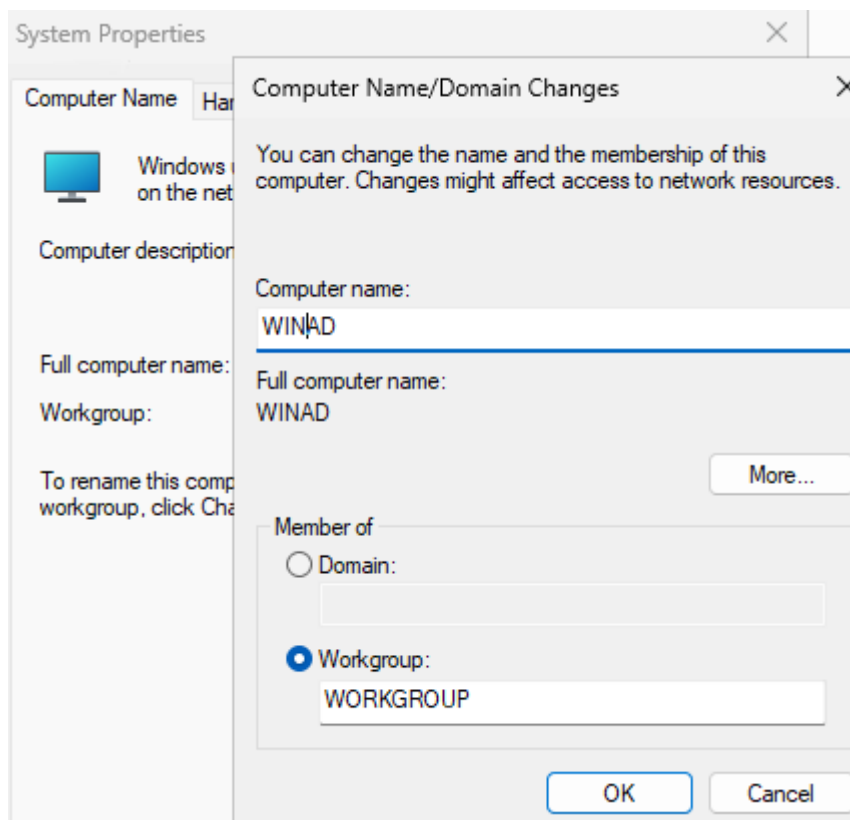
État d'intégrité

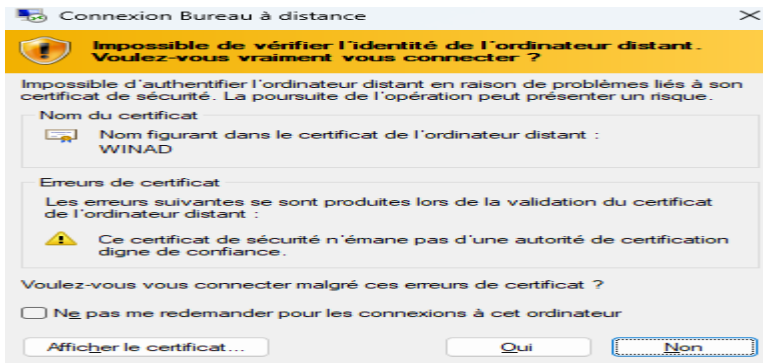
-

Heure de création

07/11/2025 15:16 UTC

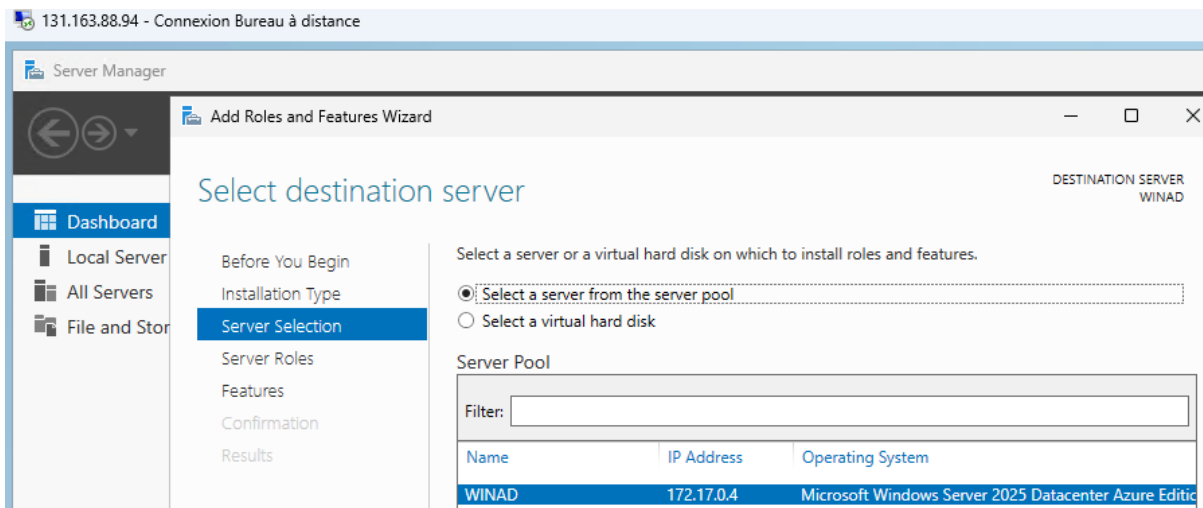
On lance une session de contrôle à distance, on renomme le PC en WINAD puis on redémarre.



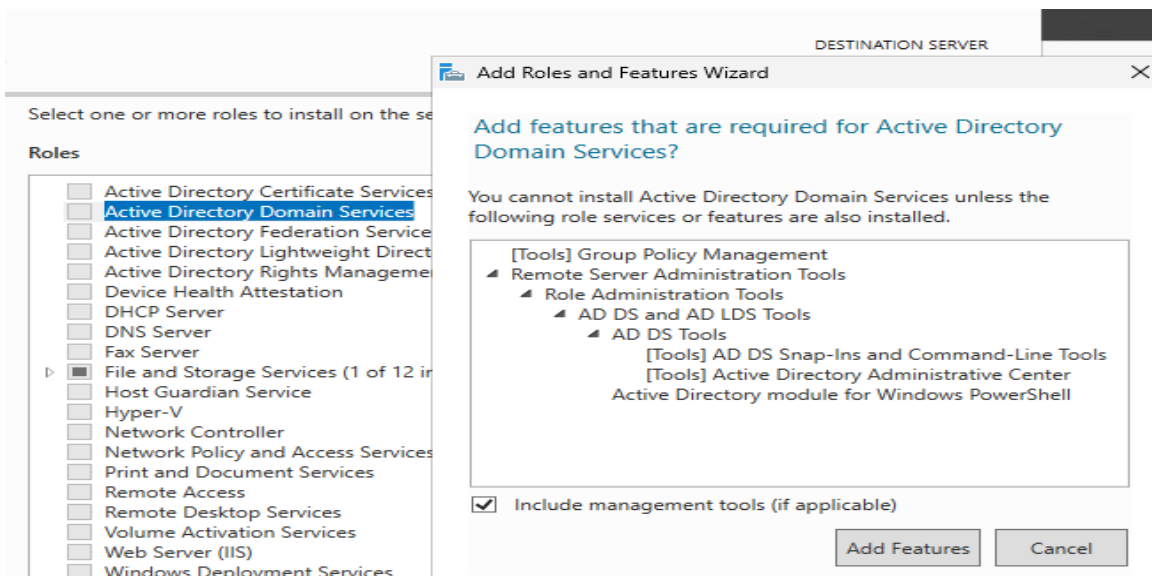


On clique sur “Add Roles and Features” et on sélectionne pour les étapes suivantes :

- Installation Type : Role-based or feature-based installation
- Server Selection : Select a server from the server pool. Choisir WINAD



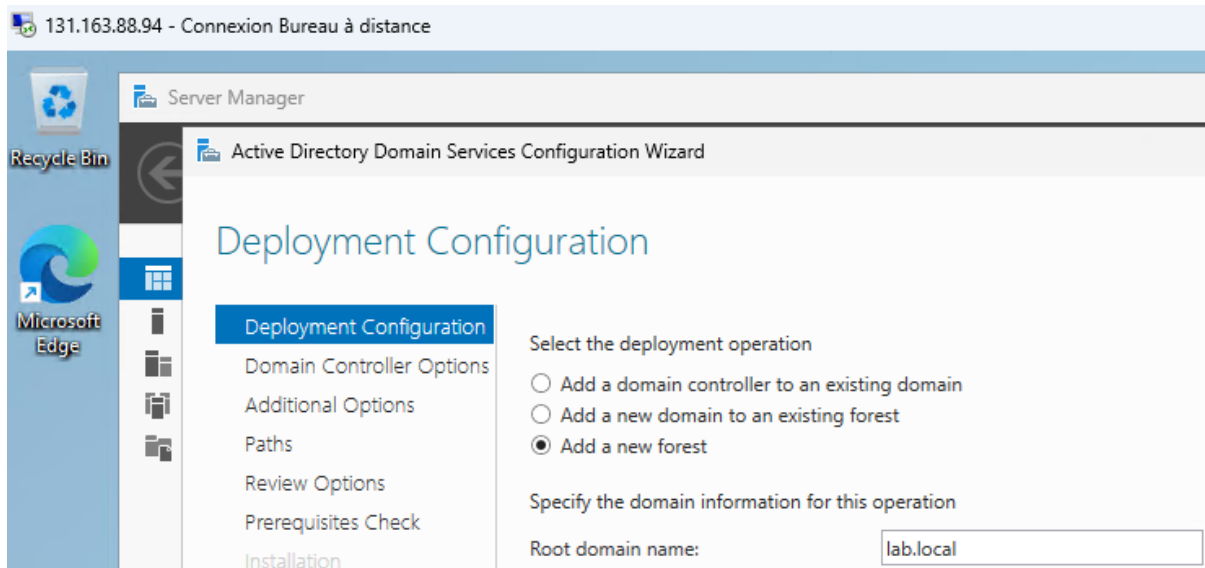
- Server Roles : Active Directory Domain Services



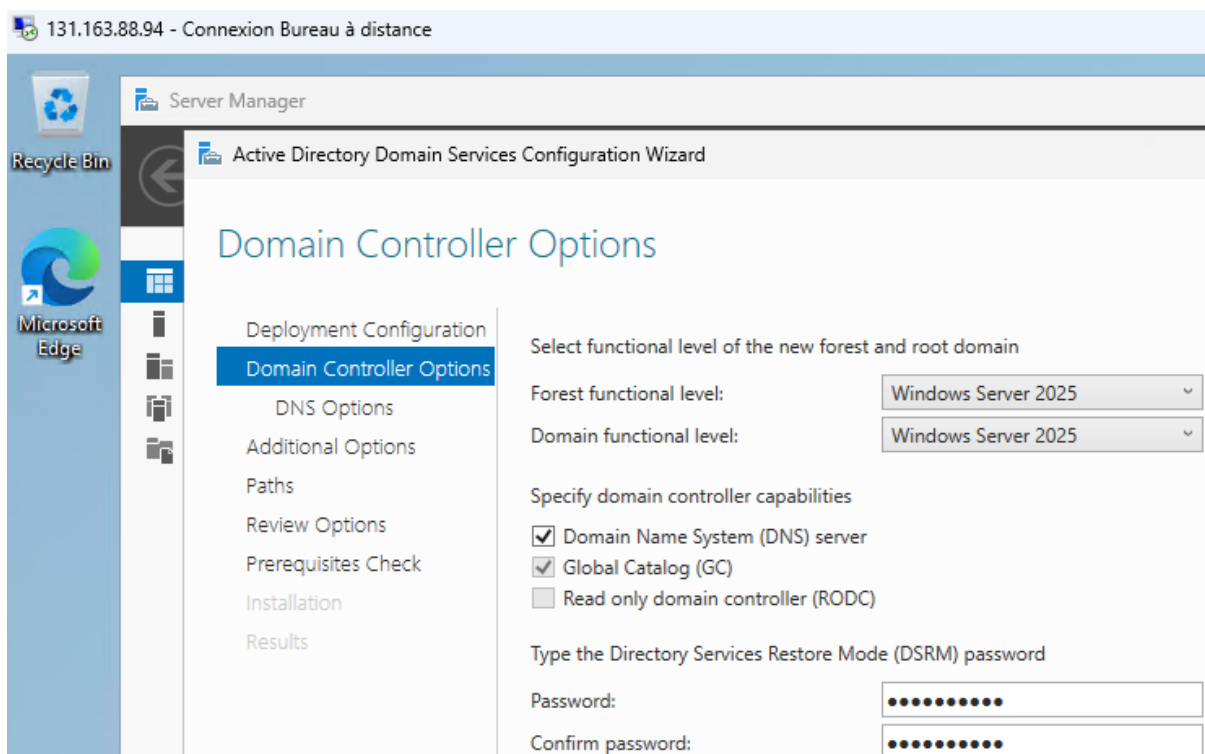
Puis on lance l'installation.

Ensuite dans “Active Directory Domain Services Configuration”:

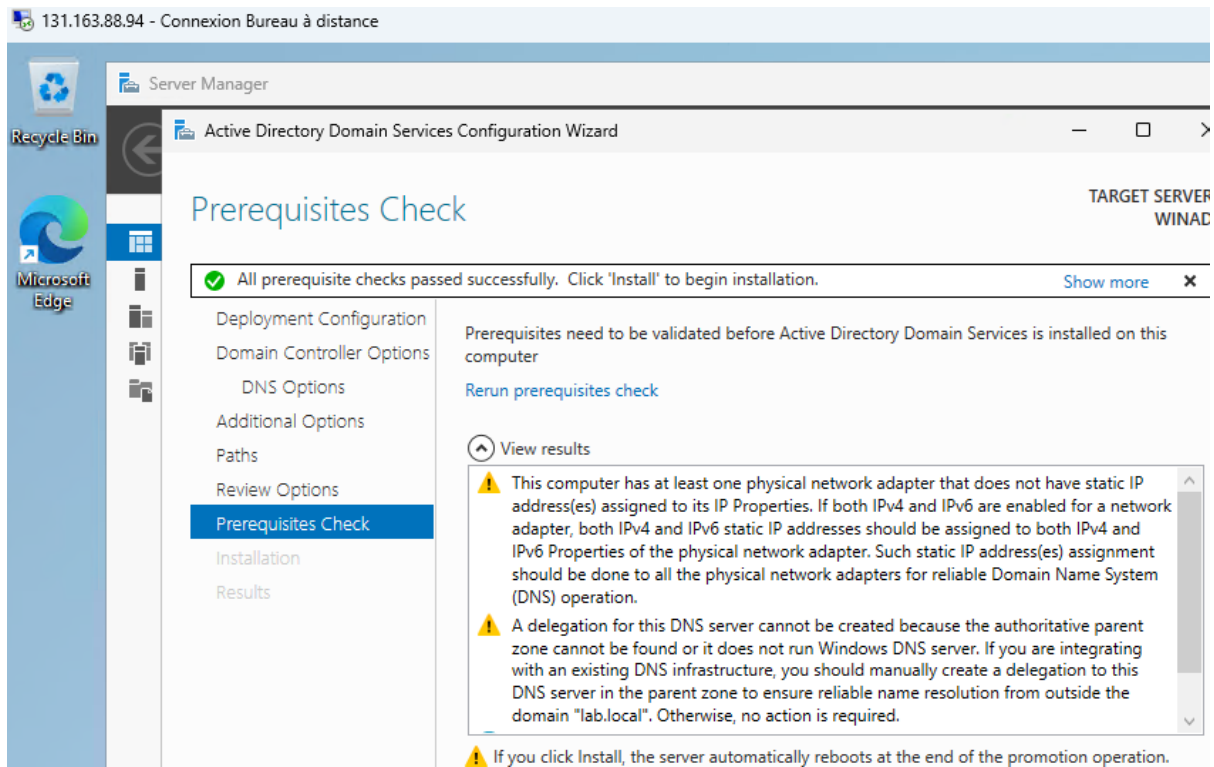
- Deployment Configuration : Add a new forest, Root domain name : lab.local



- Domain Controller Options : ajout de mot de passe DSRM



Le reste des options n'a pas besoin d'être changé, on clique sur suivant pour le reste et on lance l'installation.



On ajoute un accès au port 389 pour que WIKIJS puisse chercher les éléments nécessaires :

Joachim.Bludoh@gasto...
LYCEE GASTON BERGER (GASTO...)

Ajouter une règle de sécurité de trafic e... ×

AD-nsg

Source ⓘ
Any

Plages de ports sources * ⓘ
*

Destination ⓘ
Any

Service ⓘ
LDAP

Plages de ports de destination ⓘ
389

Protocole

Any

TCP

UDP

ICMPv4

ICMPv6

Action

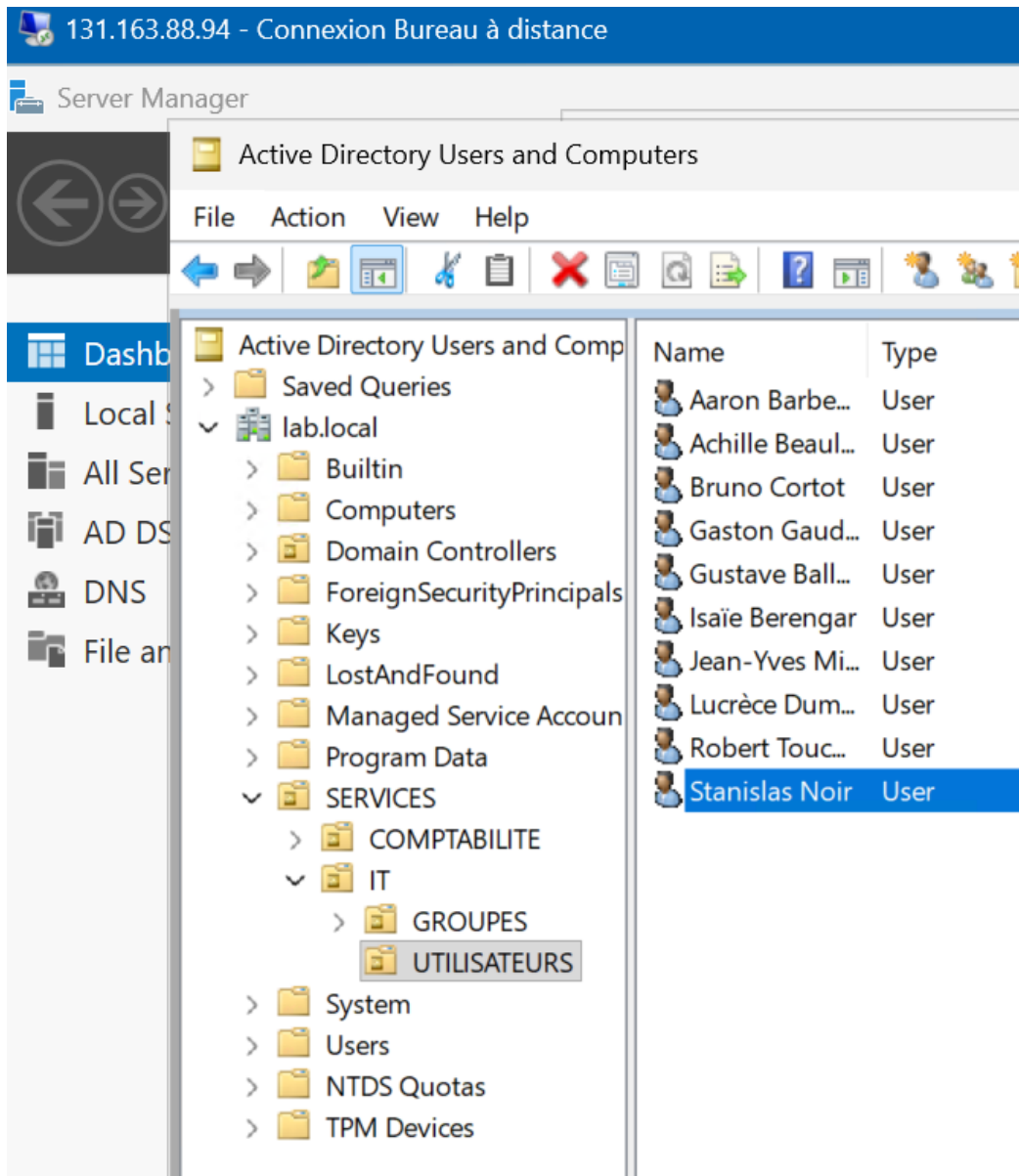
Autoriser

Refuser

Priorité * ⓘ
310

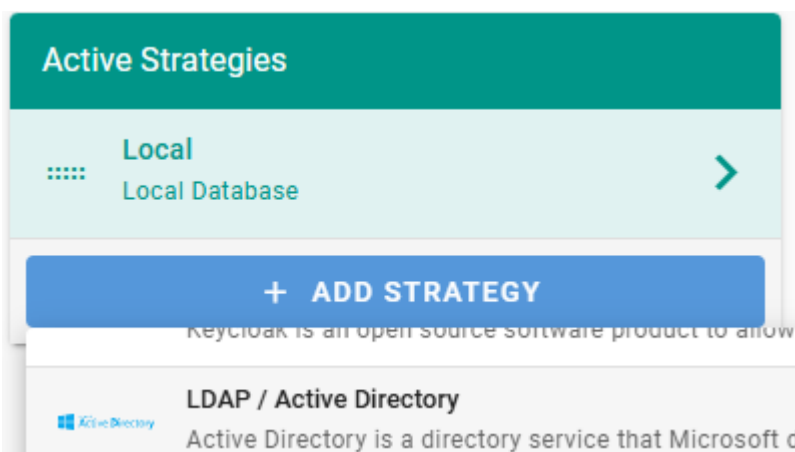
Nom *
accessad ✓

L'AD est créé, on s'occupe maintenant de l'arborescence :



Authentification WIKIJS avec Active Directory

Dans Authentification, on ajoute la Stratégie "LDAP / Active Directory"



(J'ai créé un compte administrateur pour le paramétrage avec les mêmes droits que le compte que j'utilise pour me connecter)

131.163.88.94 - Connexion Bureau à distance

Server Manager

Active Directory Users and Computers

File Action View Help

Active Directory Users and Comp

Name	Type	Description
Administrate...	User	
Allowed ROD...	Security Group ...	Members in this group c...
bludoh-joac...	User	Built-in account for admi...

STRATEGY CONFIGURATION

LDAP URL

ldap://131.163.88.94:389

(e.g. ldap://serverhost:389 or ldaps://serverhost:636)

Admin Bind DN

CN=Administrateur,CN=Users,DC=lab,DC=local

The distinguished name (dn) of the account used for binding.

Admin Bind Credentials

G@ston2526

The password of the account used above for binding.

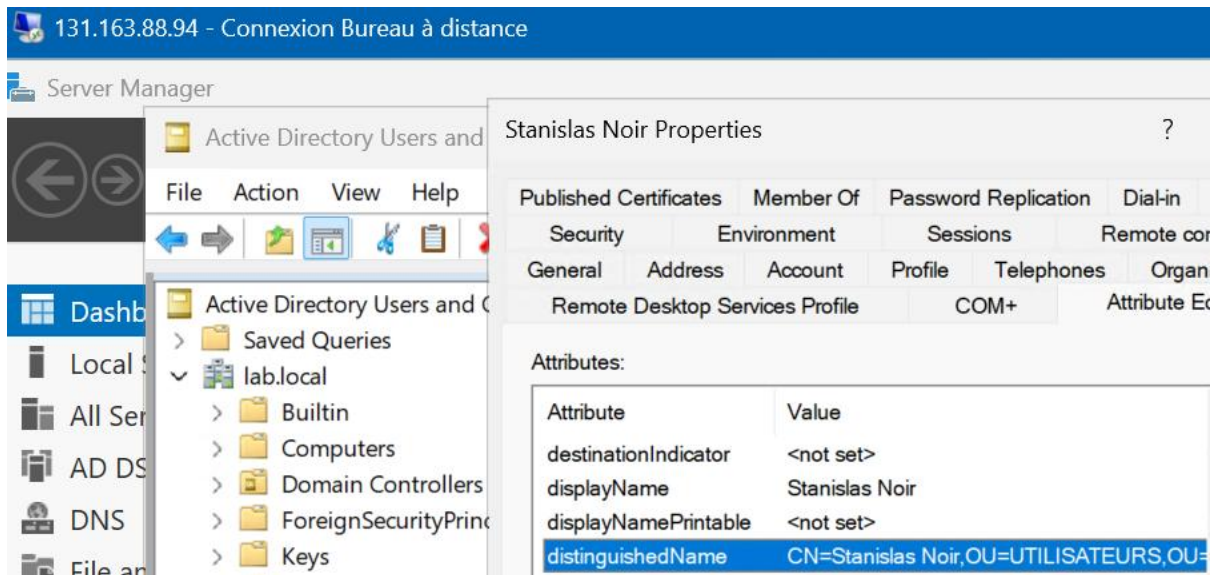
Search Base

OU=UTILISATEURS,OU=IT,OU=SERVICES,DC=lab,DC=local

The base DN from which to search for users.

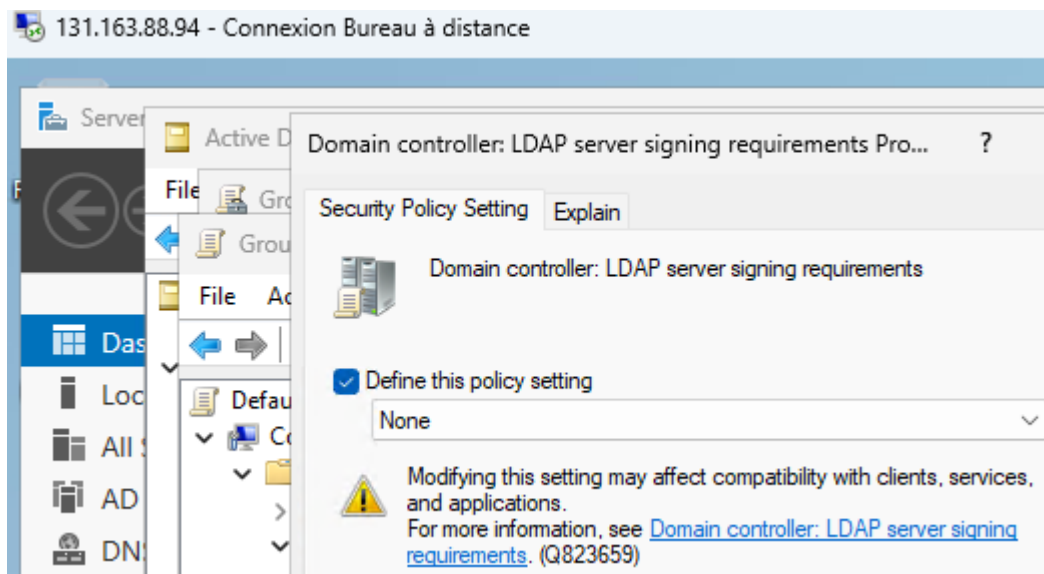
Search Filter

(sAMAccountName={{username}})

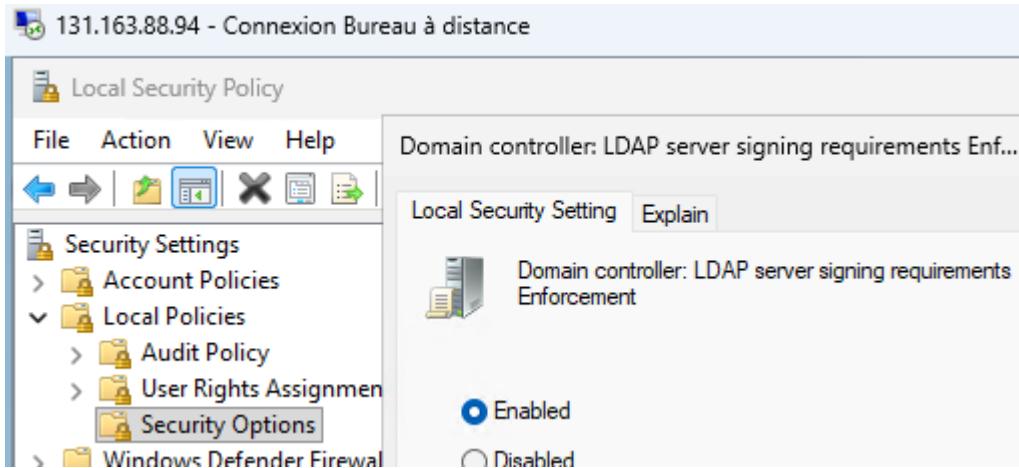


Dans “Group Policy Management” > Forest: lab.local > Domains > lab.local :

- Clic droit sur “Default Domain Policy” > Edit...
- On descend jusqu’à “Security Options”
- On définit “LDAP server signing requirements” a None.



Dans “Local Security Policy” : Security Settings > Local Policies > Security Options > LDAP server signing requirements Enforcement : on sélectionne Disabled (pas comme sur la capture d’écran).



On crée une nouvelle règle dans le pare-feu pour ouvrir le port 389.

