

Installation de Zabbix via Docker

Dans le but de simplifier et de fluidifier l'installation de Zabbix et GLPI sur le même hôte Linux, nous utiliserons Docker avec son extension Docker Compose.

Ici nous utiliserons une stack Docker compose contenant : PostgreSQL, Zabbix, Nginx, Zabbix agent

On crée un répertoire `/docker/zabbix` dans lequel on crée un fichier nommé `docker-compose.yaml`. Il suffit de copier-coller le contenu du YAML ci-dessous.

On exécute ensuite la commande `docker-compose up`

```
version: '3.7'

services:
  postgresql-server:
    image: postgres:latest
    container_name: postgresql-server
    restart: unless-stopped
    environment:
      POSTGRES_USER: user_postgresql-server
      POSTGRES_PASSWORD: azerty*1234*
      POSTGRES_DB: td-DB
    volumes:
      - postgresql-data:/var/lib/postgresql/data

  zabbix-server:
    image: zabbix/zabbix-server-pgsql:latest
    container_name: zabbix-server
    restart: unless-stopped
    depends_on:
      - postgresql-server
    environment:
      DB_SERVER_HOST: postgresql-server
      POSTGRES_USER: user_postgresql-server
      POSTGRES_PASSWORD: azerty*1234*
      POSTGRES_DB: td-DB
    ports:
      - "10051:10051"
    volumes:
      - zabbix-server-data:/var/lib/zabbix
      - zabbix-snmptraps-data:/var/lib/zabbix/snmptraps
      - zabbix-export-data:/var/lib/zabbix/export
```

```
zabbix-web-nginx-pgsql:
  image: zabbix/zabbix-web-nginx-pgsql:latest
  container_name: zabbix-web
  restart: unless-stopped
  depends_on:
    - postgresql-server
    - zabbix-server
  environment:
    DB_SERVER_HOST: postgresql-server
    POSTGRES_USER: user_postgresql-server
    POSTGRES_PASSWORD: azerty*1234*
    POSTGRES_DB: td-DB
    ZBX_SERVER_HOST: zabbix-server
    PHP_TZ: Europe/Paris
  ports:
    - "8080:8080"
  volumes:
    - zabbix-web-data:/usr/share/zabbix
```

```
zabbix-agent:
  image: zabbix/zabbix-agent:latest
  container_name: zabbix-agent
  restart: unless-stopped
  depends_on:
    - zabbix-server
  environment:
    ZBX_HOSTNAME: "zabbix-server"
    ZBX_SERVER_HOST: zabbix-server
    ZBX_SERVER_PORT: '10051'
    ZBX_SERVER_ACTIVE: zabbix-server
```

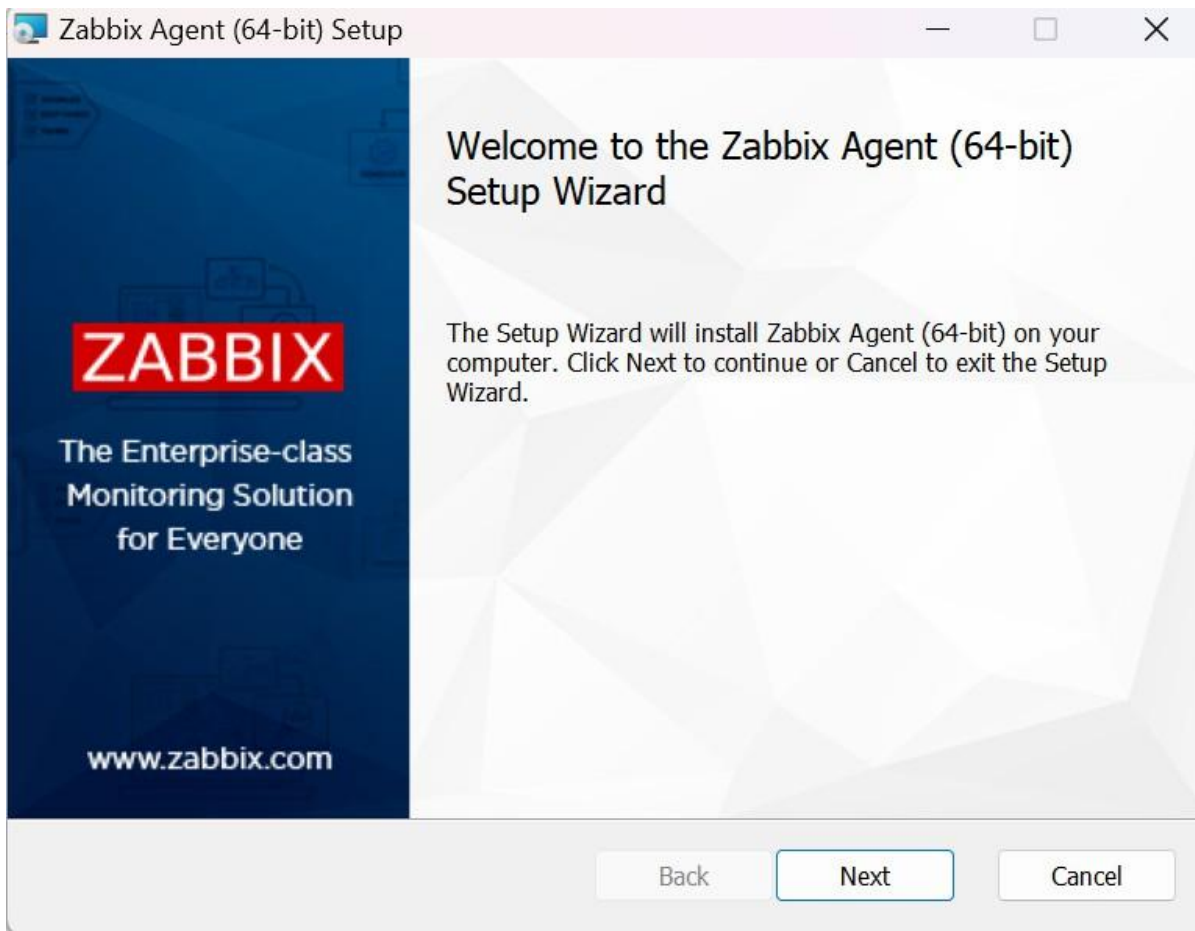
```
volumes:
  postgresql-data:
  zabbix-server-data:
  zabbix-snmptraps-data:
  zabbix-export-data:
  zabbix-web-data:
```

Le serveur est joignable sur l'IP <IP dans le VLAN 30>:8080

Installation de l'agent Zabbix sur Windows

On va installer l'agent Zabbix sur le Windows Server via l'installeur téléchargeable sur le site officiel de zabbix.
https://www.zabbix.com/download_agents#tab:40LTS

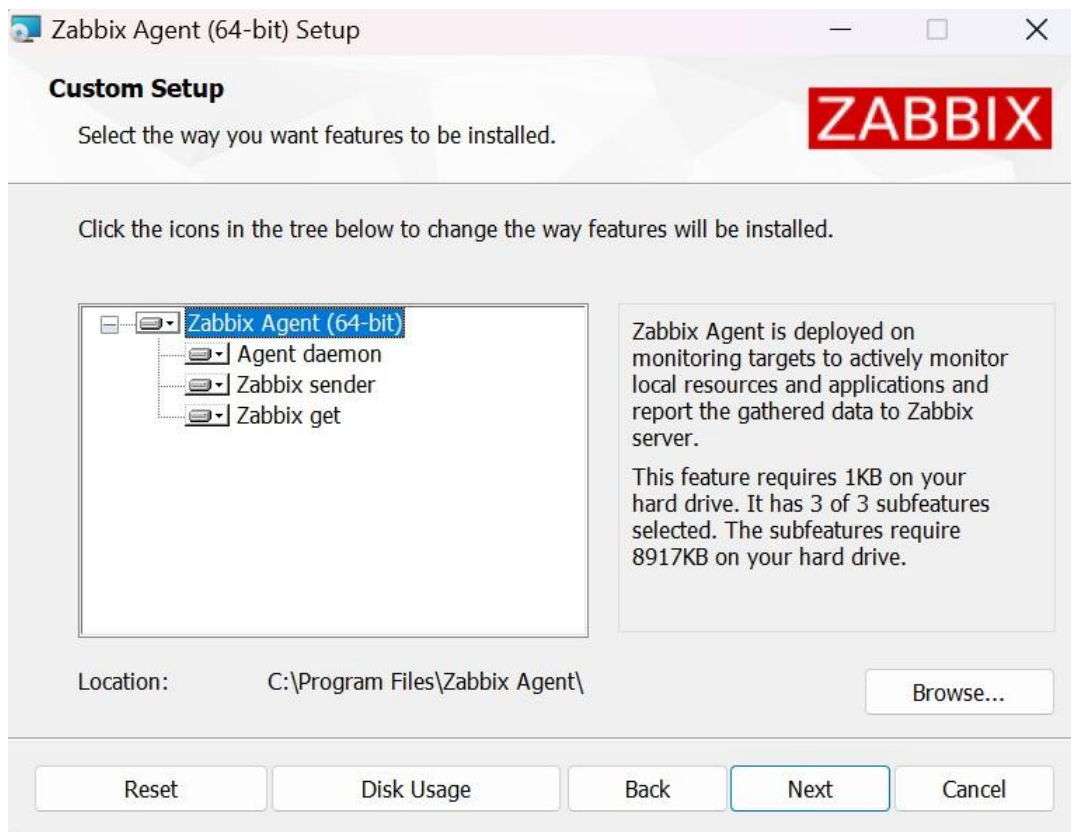
On ouvre l'exécutable



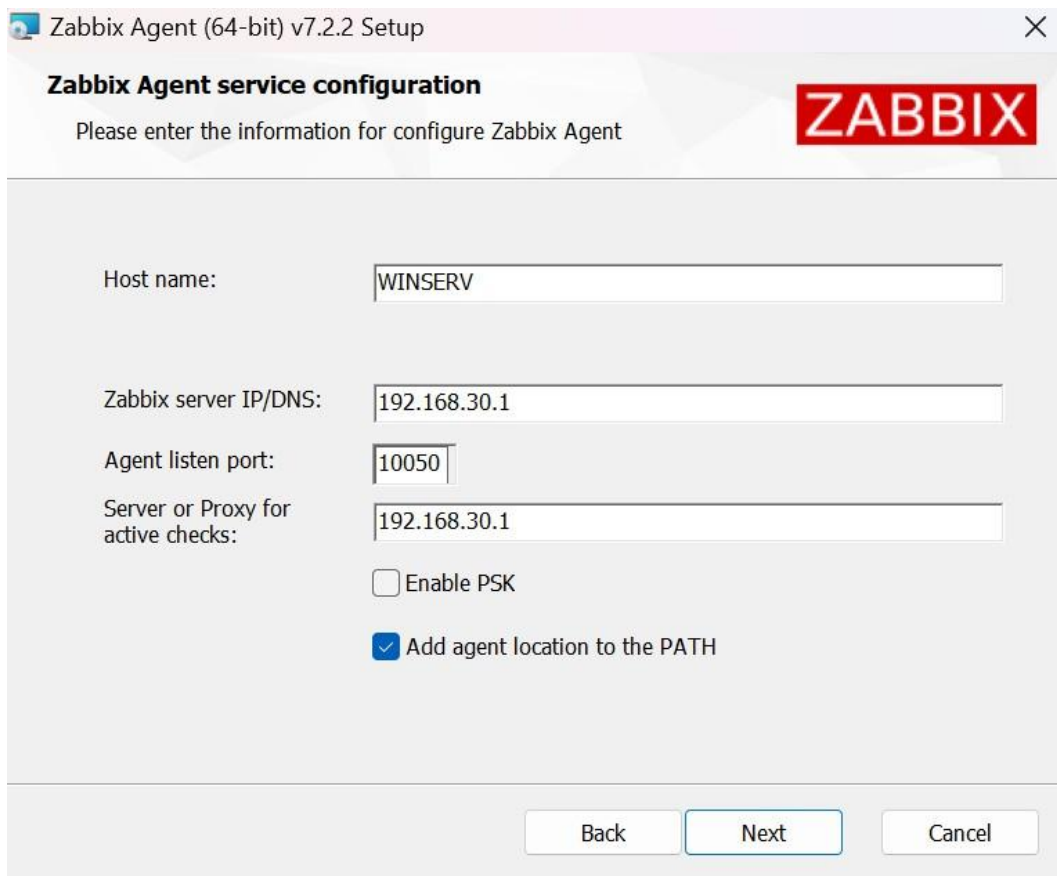
On accepte les termes et contrat d'utilisation.



On laisse le chemin d'installation par défaut



On rentre l'adresse du serveur zabbix



Zabbix Agent service configuration

Please enter the information for configure Zabbix Agent

ZABBIX

Host name:

Zabbix server IP/DNS:

Agent listen port:

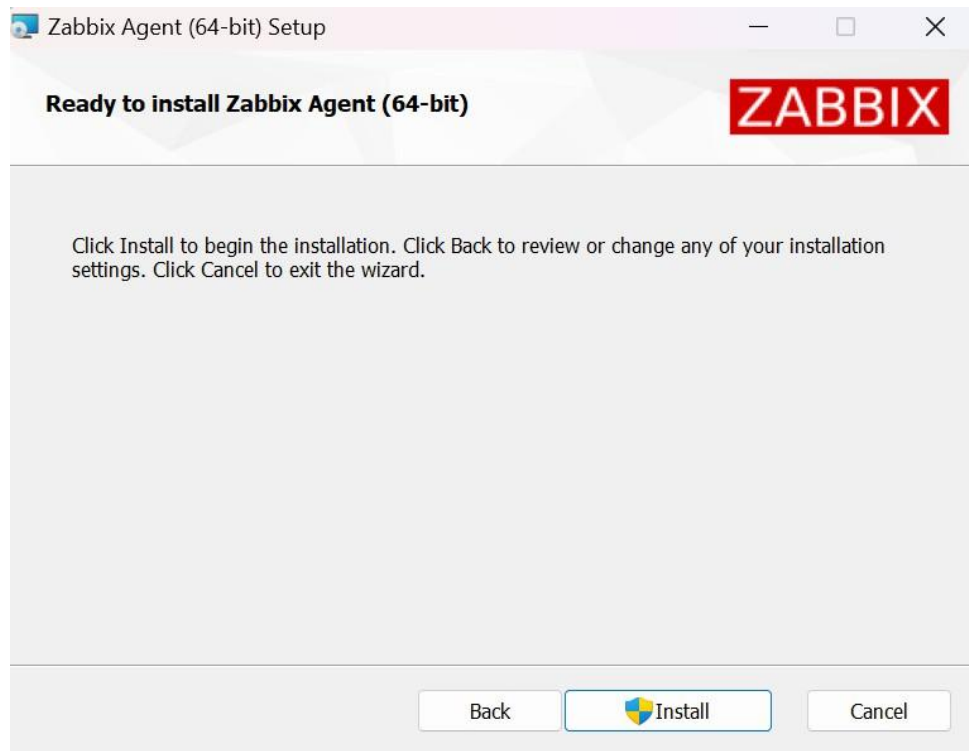
Server or Proxy for active checks:

Enable PSK

Add agent location to the PATH

Back Next Cancel

Cliquer sur Installer pour finaliser l'installation de l'agent Zabbix sur le Windows Server



Zabbix Agent (64-bit) Setup

Ready to install Zabbix Agent (64-bit)

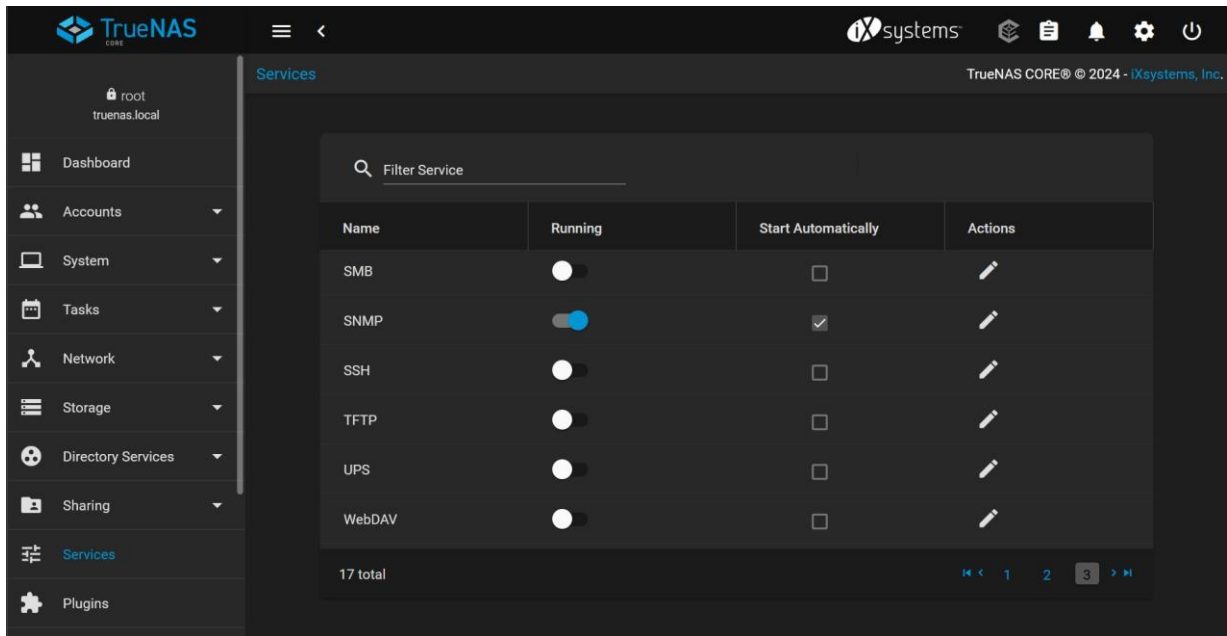
ZABBIX

Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.

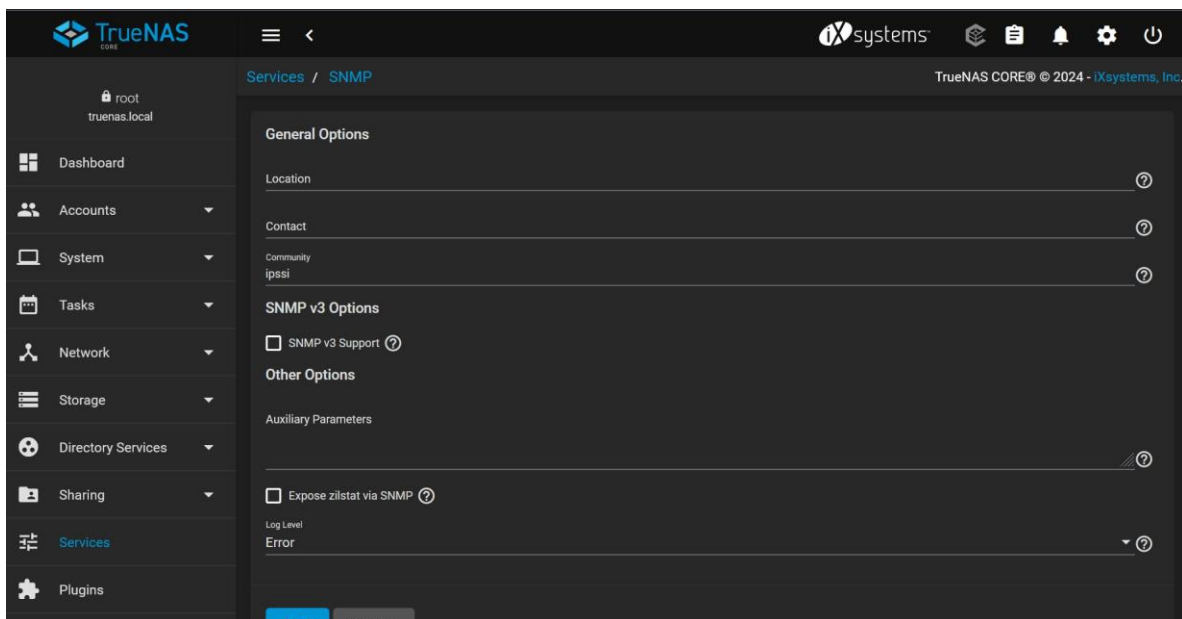
Back Install Cancel

TrueNAS via SNMP et ajout de l'hôte

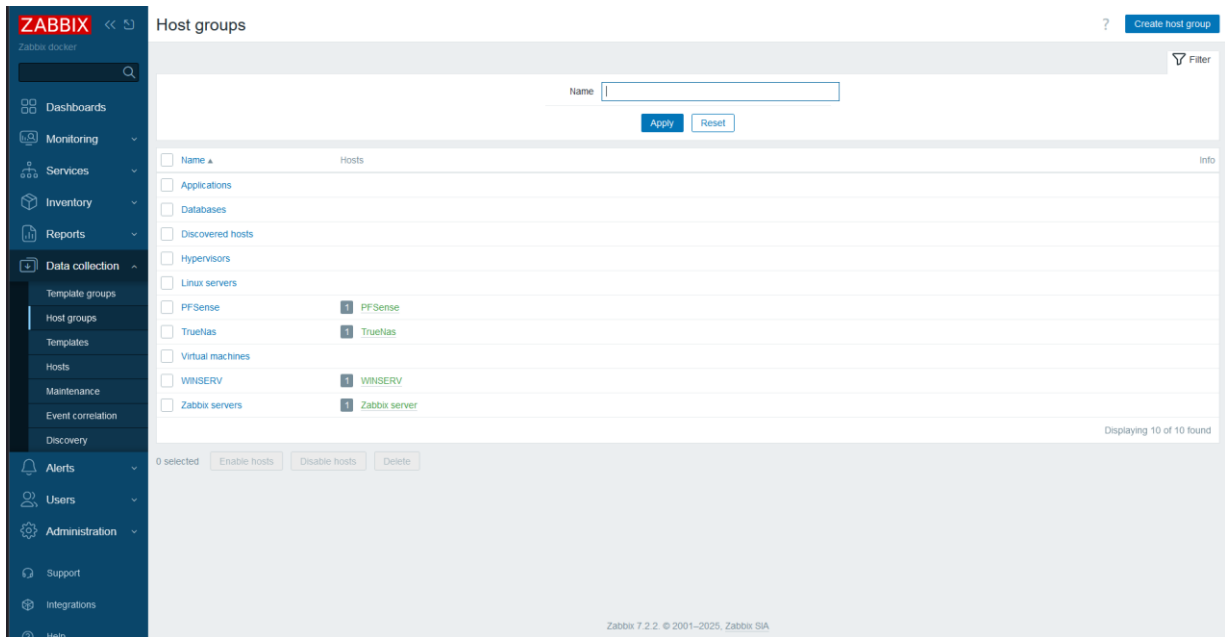
Tout d'abord, on active le service SNMP sur le TrueNAS



On clique sur action et on entre "ipssi" pour le champ Community.

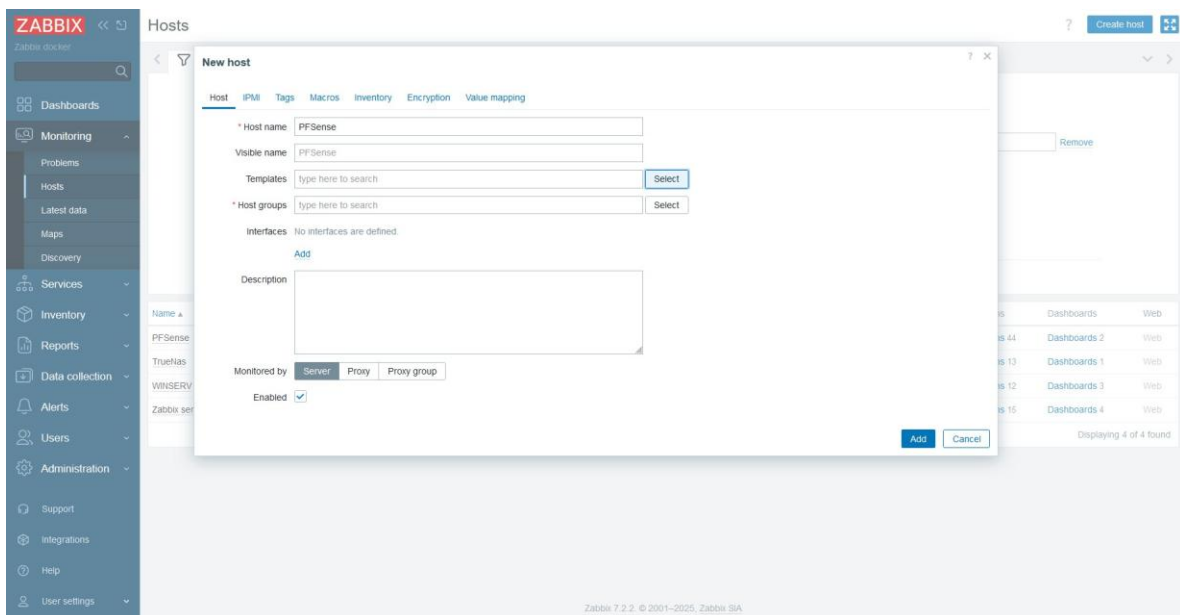


On va dans data collection et on crée un Host group



Sur la Page Hosts du menu Monitoring on clique sur “Create host”.

Ensuite on rentre les information nécessaires



On sélectionne la Template voulue

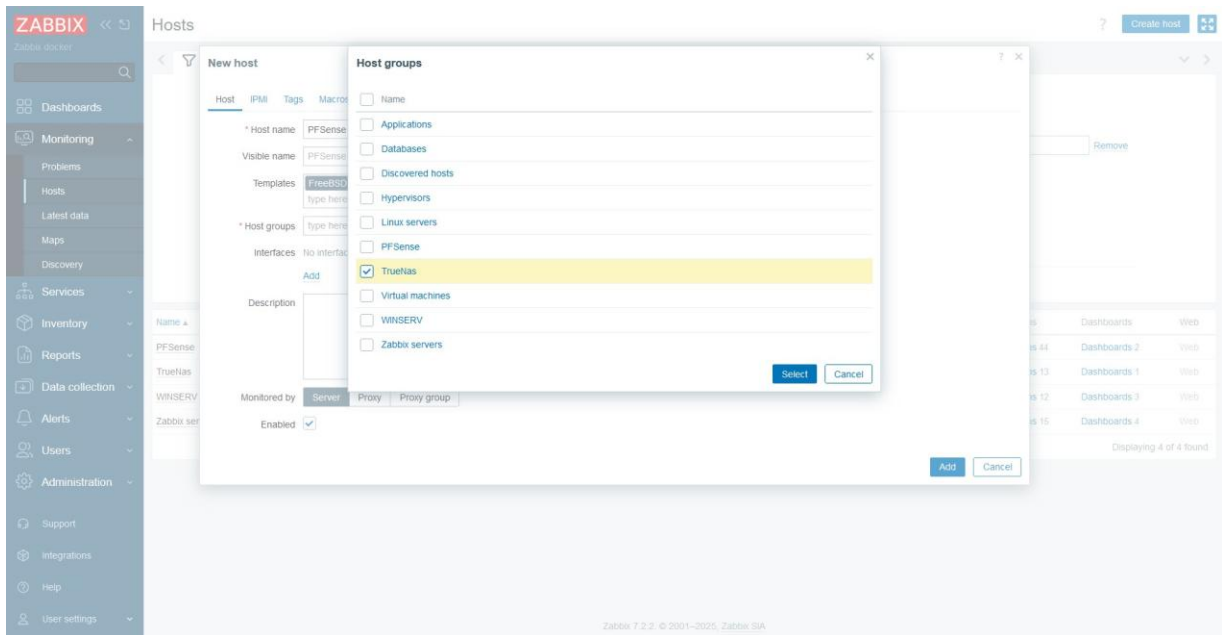
Templates



Template group

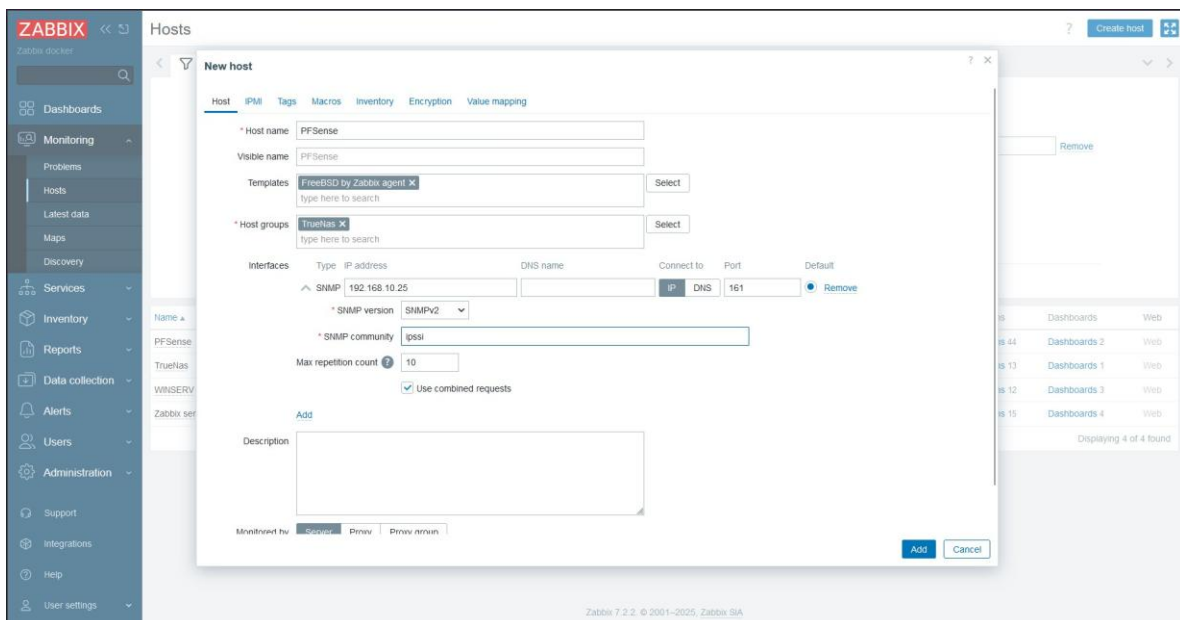
- DELL PowerEdge R840 by HTTP
- DELL PowerEdge R840 by SNMP
- Docker by Zabbix agent 2
- Elasticsearch Cluster by HTTP
- Envoy Proxy by HTTP
- Etcd by HTTP
- Extreme EXOS by SNMP
- F5 Big-IP by SNMP
- FortiGate by HTTP
- FortiGate by SNMP
- FreeBSD by Zabbix agent
- GCP by HTTP
- GCP Cloud SQL MSSQL by HTTP
- GCP Cloud SQL MSSQL Replica by HTTP
- GCP Cloud SQL MySQL by HTTP
- GCP Cloud SQL MySQL Replica by HTTP
- GCP Cloud SQL PostgreSQL by HTTP
- GCP Cloud SQL PostgreSQL Replica by HTTP
- GCP Compute Engine Instance by HTTP

Puis on ajoute l'Host group



On rentre les données de l'interface ou on récupère les données.

Soit on rentre l'adresse IP, la version SNMP et l'SNMP Community



On clique sur "Add" et l'hôte se crée et les informations peuvent remonter

The screenshot displays the Zabbix Hosts configuration interface. The top section contains a form for creating a new host. The form includes fields for Name, Host groups (with a search box and 'Select' button), IP, DNS, and Port. There are also checkboxes for 'Show hosts in maintenance' and 'Show suppressed problems'. Below the form are buttons for 'Save as', 'Apply', and 'Reset'. The bottom section is a table listing existing hosts.

Name	Interface	Availability	Tags	Status	Latest data	Problems	Graphs	Dashboards	Web
PFSense	192.168.10.254-10050	ZBX	class:os target:freebsd	Enabled	Latest data 151	Problems	Graphs 44	Dashboards 2	Web
TrueNas	192.168.10.25.161	SNMP	class:hardware target:trueNAS-core	Enabled	Latest data 72	Problems	Graphs 13	Dashboards 1	Web
WINSEVR	192.168.10.252-10050	ZBX	class:os target:windows	Enabled	Latest data 107	Problems	Graphs 12	Dashboards 3	Web
Zabbix server	172.19.0.5-10050	ZBX	class:os class:software target:linux ***	Enabled	Latest data 145	Problems	Graphs 15	Dashboards 4	Web

Displaying 4 of 4 found

Zabbix 7.2.2. © 2001–2025, Zabbix SA

Ajout d'un hôte via Zabbix agent.

Pour remonter des données via zabbix agent on ajoute un hôte en rentrant les données nécessaires comme ci-dessous.

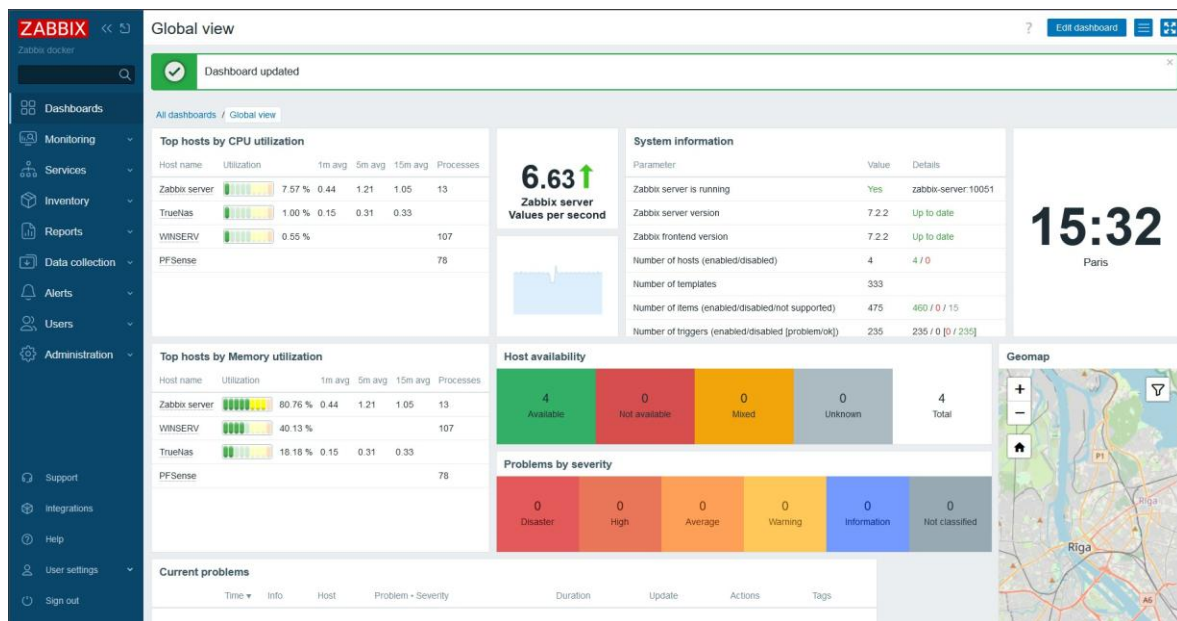
On sélectionne l'interface agent et on rentre l'adresse IP de la machine et le numéro de port du zabbix agent.

The screenshot displays the Zabbix web interface for adding a new host. The 'Host' configuration form is open, showing the following details:

- Host name:** WINSERV
- Visible name:** WINSERV
- Host groups:** WINSERV_X
- Interfaces:** A table with one entry: Type: Agent, IP address: 192.168.10.252, Connect to: IP, Port: 10050.
- Monitored by:** Server
- Enabled:**

The form also includes a 'Description' text area and buttons for 'Update', 'Clone', 'Delete', and 'Cancel'. The background shows the Zabbix navigation menu and a list of existing hosts.

On édite son dashboard pour avoir les informations importantes sur les différents hôtes (Exemples: l'utilisation du CPU ou de la mémoire)



Installation de l'agent Zabbix sur un client Windows.

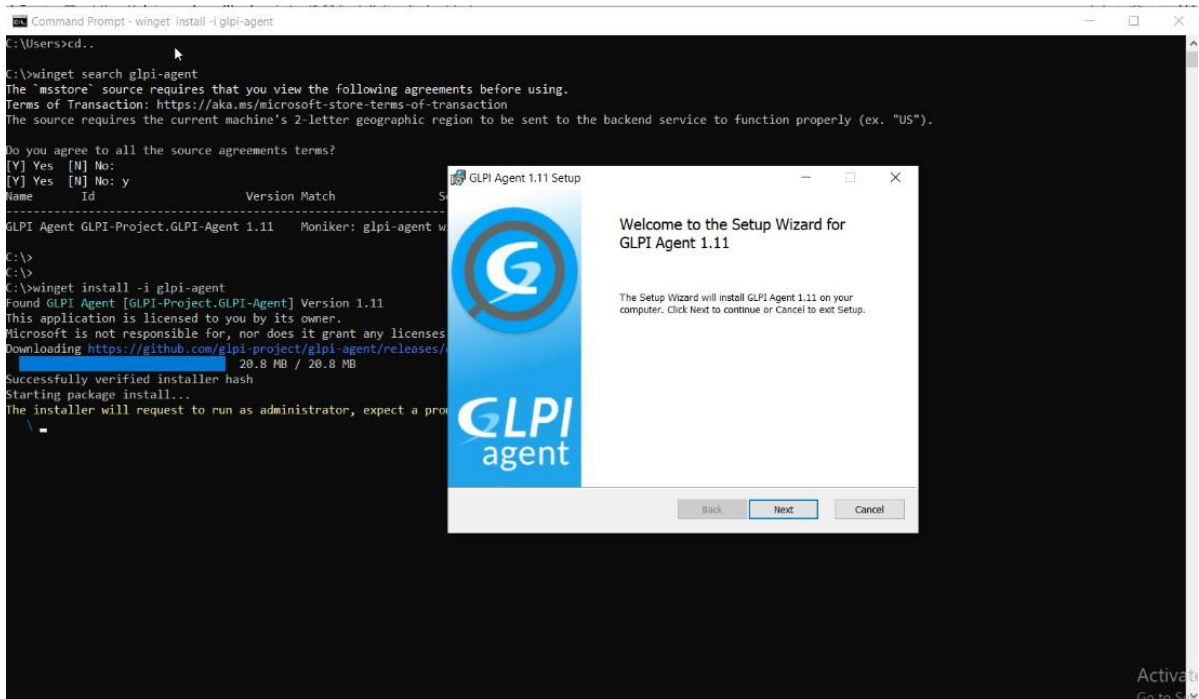
On vérifie la que l'agent glpi soit accessible

```
C:\>winget search glpi-agent
The 'msstore' source requires that you view the following agreements before using.
Terms of Transaction: https://aka.ms/microsoft-store-terms-of-transaction
The source requires the current machine's 2-letter geographic region to be sent to the backend service to function properly (ex. "US").

Do you agree to all the source agreements terms?
[Y] Yes [N] No:
[Y] Yes [N] No: y
Name      Id              Version Match      Source
-----
GLPI Agent GLPI-Project.GLPI-Agent 1.11  Moniker: glpi-agent winget
```

On ouvre l'installateur de l'agent Zabbix

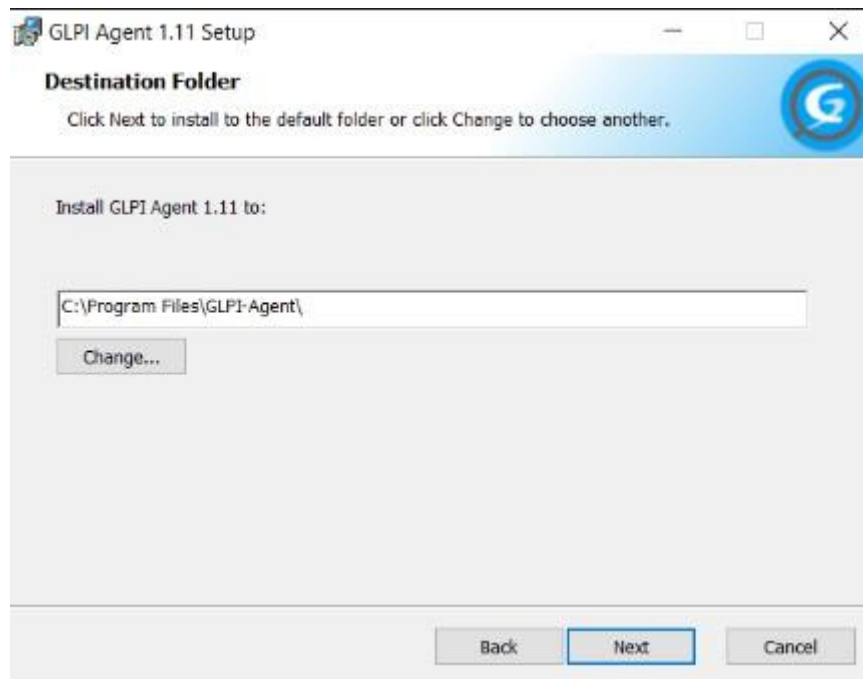
```
C:\>winget install -i glpi-agent
Found GLPI Agent [GLPI-Project.GLPI-Agent] Version 1.11
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://github.com/glpi-project/glpi-agent/releases/download/1.11/GLPI-Agent-1.11-x64.msi
20.8 MB / 20.8 MB
Successfully verified installer hash
Starting package install...
The installer will request to run as administrator, expect a prompt.
```



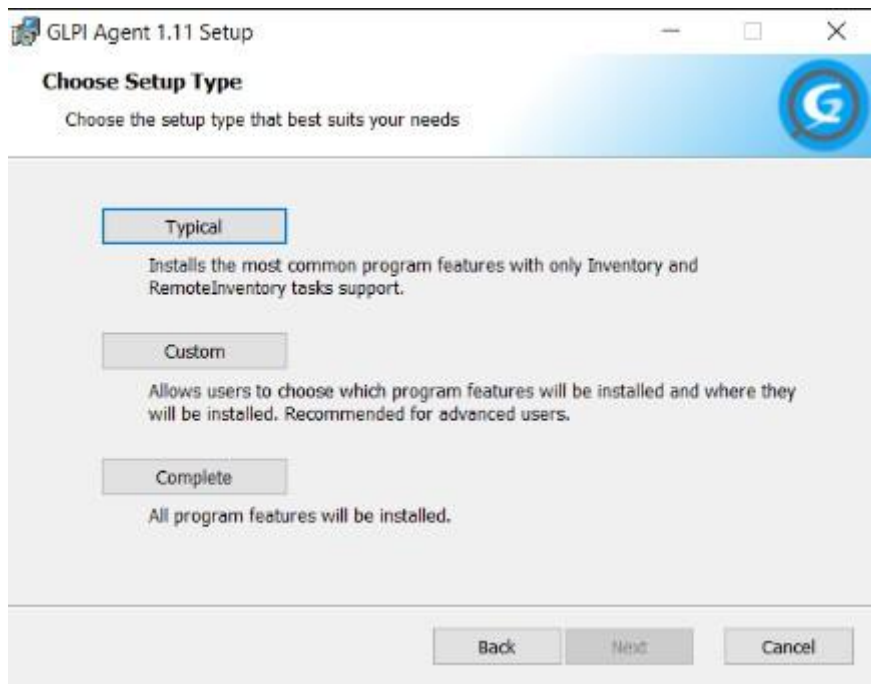
On accepte les termes du contrat de licence



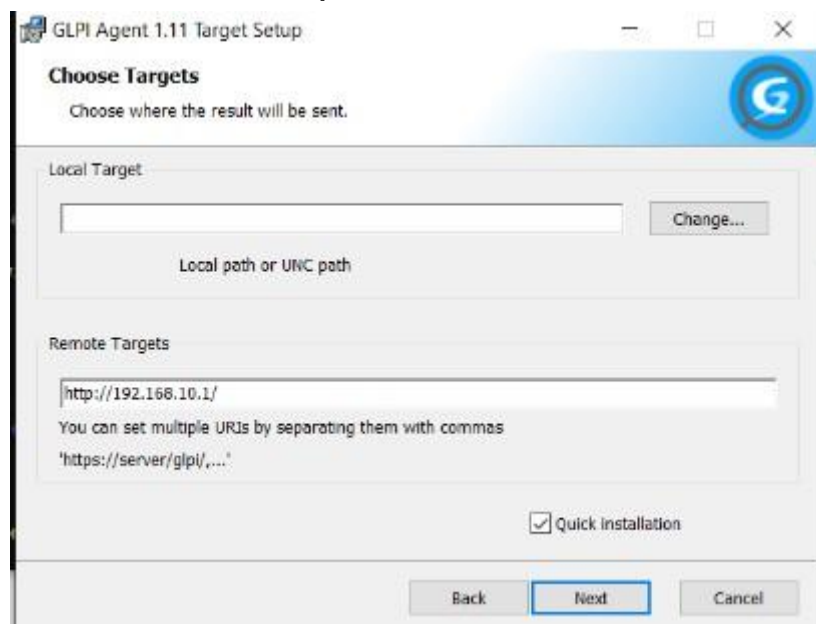
Choisir le dossier d'installation.



On choisit le type d'installation "Typical"



Indiquer l'url du serveur GLPI, décocher Quick installation et cliquer sur Next.



Passer les option SSL en cliquant sur Next.

GLPI Agent 1.11 Setup

Remote Targets SSL Options
Set SSL options.

SSL Options

CA Certificates Directory

CA Certificate File

Fingerprint of SSL certificate to trust

Disable SSL check (for security reason, only use it for debugging)

Back Next Cancel

Cliquer sur Next.

GLPI Agent 1.11 Setup

Remote Targets Proxy Options
Set Proxy options.

Proxy Options

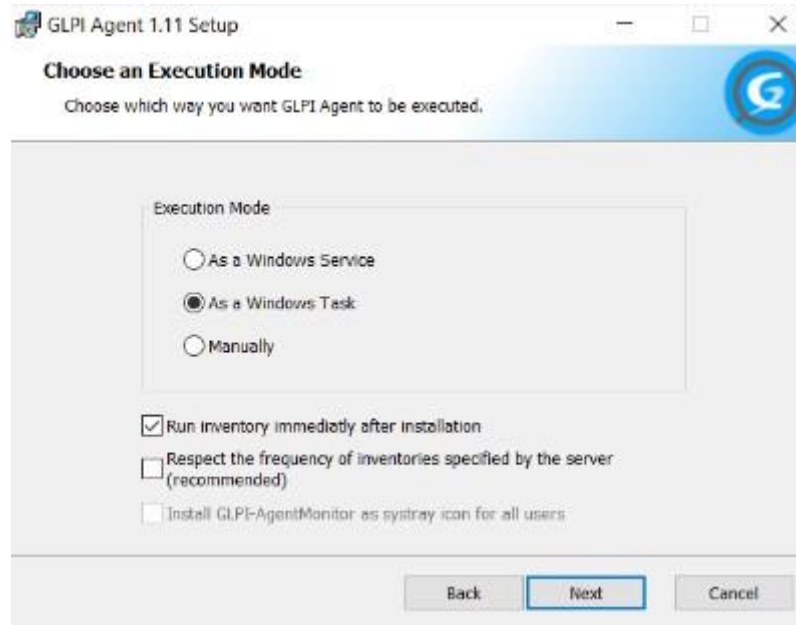
Proxy server

Proxy server authentication user

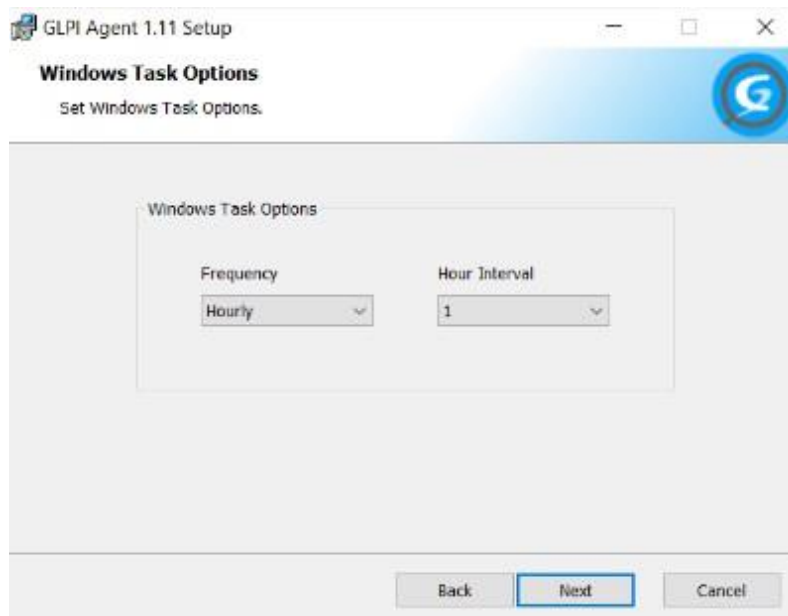
Proxy server authentication password

Back Next Cancel

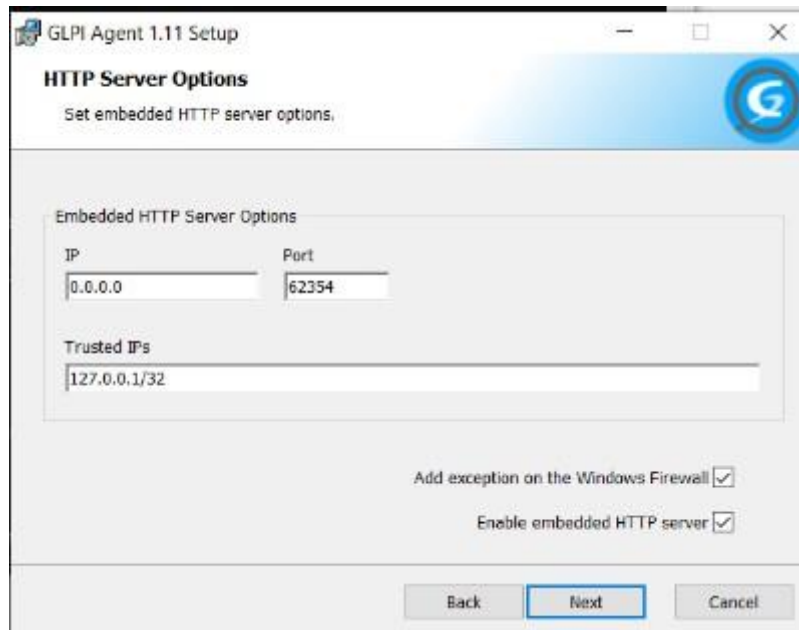
Choisir le mode d'exécution As a Windows Task, cocher la case Run inventory immediatly after installation, décocher la case Respect the frequency of inventories specified by the server et cliquer sur le bouton Next.



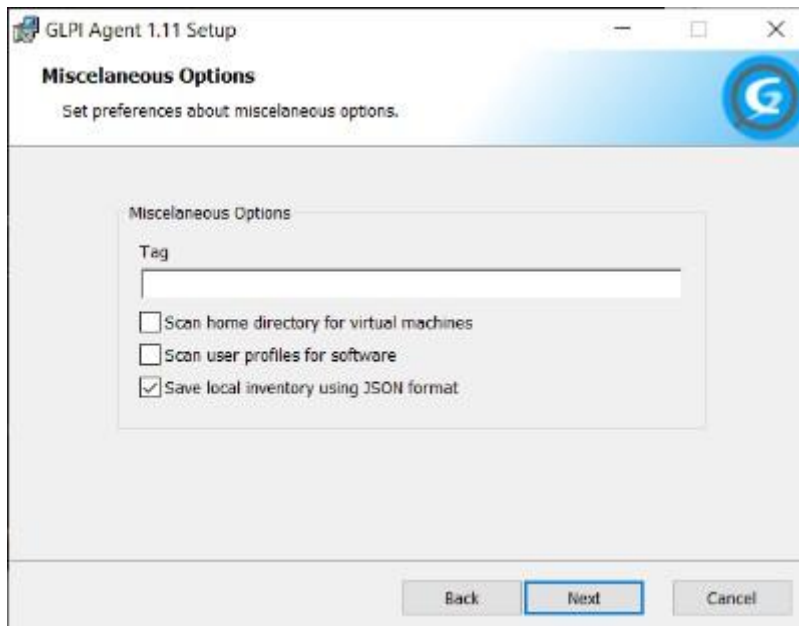
Configurer la fréquence des inventaires pour la tâche planifiée et cliquer sur Next.



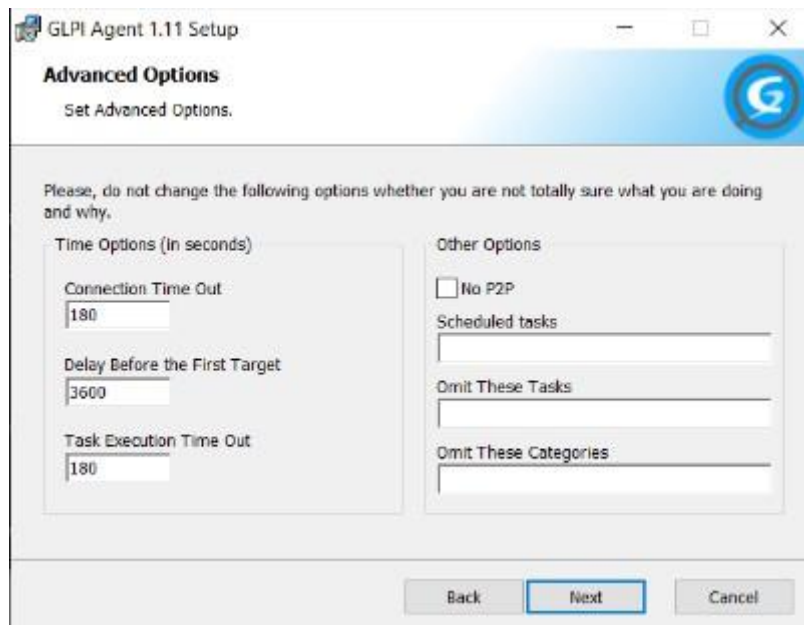
Désactiver le serveur en décochant la case Enable embedded HTTP Server, cliquer sur Next.



Mettre un Tag si souhaité. Cliquer sur Next.

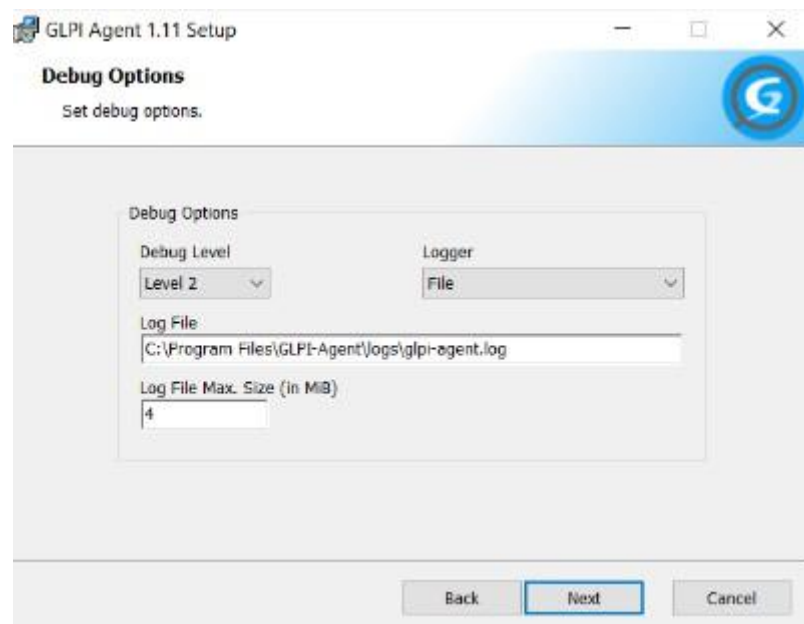


Passer les options avancées en cliquant sur le bouton Next.



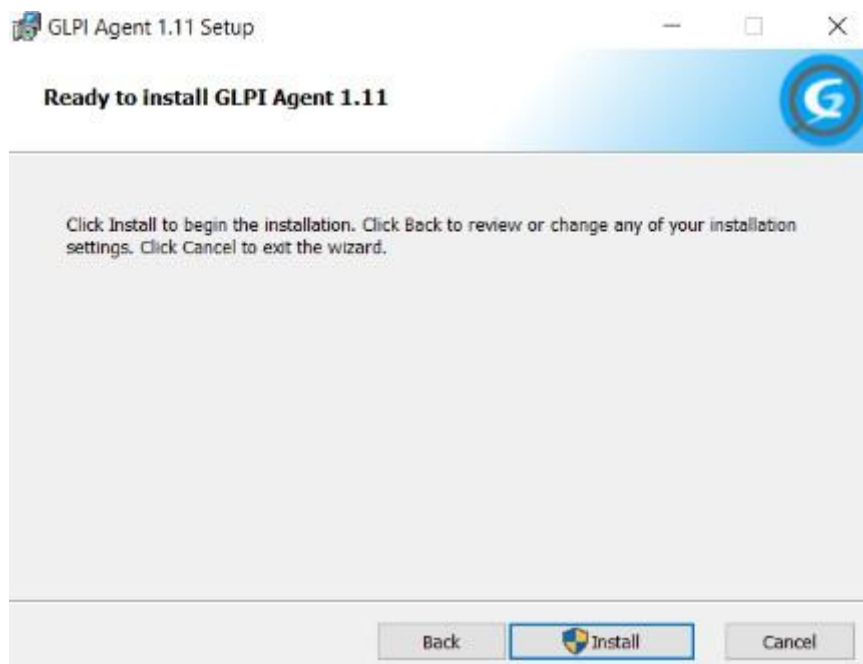
The screenshot shows the 'Advanced Options' window of the GLPI Agent 1.11 Setup. The window title is 'GLPI Agent 1.11 Setup' and the subtitle is 'Set Advanced Options.' Below the title bar, there is a warning message: 'Please, do not change the following options whether you are not totally sure what you are doing and why.' The window is divided into two main sections: 'Time Options (in seconds)' and 'Other Options'. The 'Time Options' section contains three input fields: 'Connection Time Out' with the value '180', 'Delay Before the First Target' with the value '3600', and 'Task Execution Time Out' with the value '180'. The 'Other Options' section contains a checkbox for 'No P2P' which is unchecked, and three empty text input fields for 'Scheduled tasks', 'Omit These Tasks', and 'Omit These Categories'. At the bottom of the window, there are three buttons: 'Back', 'Next' (which is highlighted with a blue border), and 'Cancel'.

Pour faciliter les dépannages, sélectionner le niveau de debug à 2.

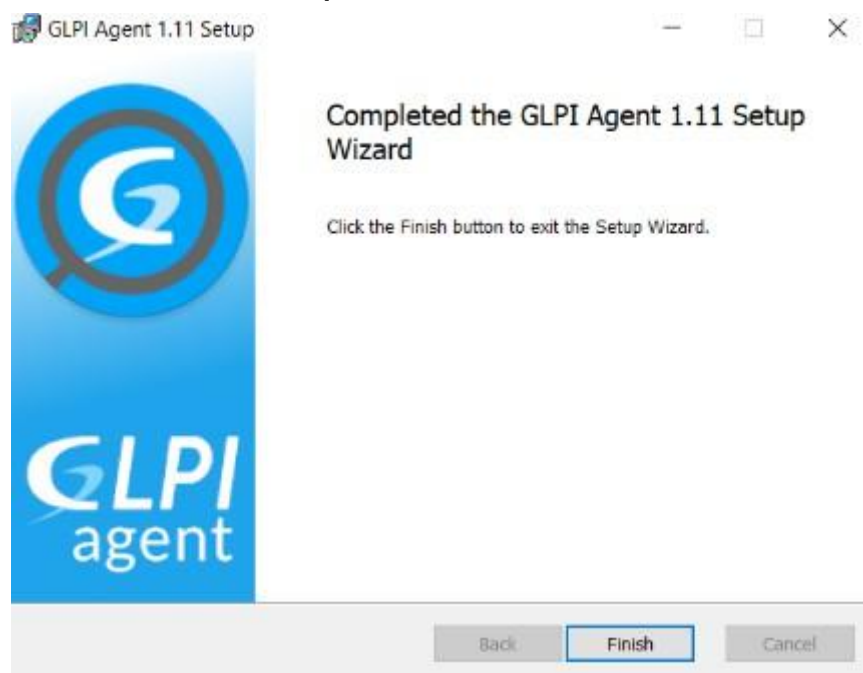


The screenshot shows the 'Debug Options' window of the GLPI Agent 1.11 Setup. The window title is 'GLPI Agent 1.11 Setup' and the subtitle is 'Set debug options.' The window contains a 'Debug Options' section with four fields: 'Debug Level' is a dropdown menu set to 'Level 2', 'Logger' is a dropdown menu set to 'File', 'Log File' is a text input field containing the path 'C:\Program Files\GLPI-Agent\logs\glpi-agent.log', and 'Log File Max. Size (in MiB)' is a text input field containing the value '4'. At the bottom of the window, there are three buttons: 'Back', 'Next' (which is highlighted with a blue border), and 'Cancel'.

Cliquer sur “Installer”. Puis attendre la fin de l’installation.



Cliquer sur “Finish”.



On voit que notre client remonte dans GLPI.

The top screenshot shows the GLPI dashboard. The left sidebar contains navigation items: Parc, Assistance, Gestion, Outils, Administration, and Configuration. The main content area features a 'Tableau de bord' with a security warning: 'Pour des raisons de sécurité, veuillez supprimer le fichier : install/install.php'. Below this are several statistics cards: Logiciels (181), Ordinateur (1), Matériel réseau (0), Téléphone (0), Licence (0), Moniteur (0), Base (0), and Imprimante (0). There are also charts for 'Ordinateurs par Fabricant' (4 Utilisateurs) and 'Statuts des tickets par mois' (0 Ticket, 0 Tickets en retard, 0 Problème, 0 Changement).

The bottom screenshot shows the 'Ordinateurs' list view. The breadcrumb trail is 'Accueil / Parc / Ordinateurs'. The table below shows the details of a computer asset:

NOM *	STATUT	FABRICANT	NUMÉRO DE SÉRIE	TYPE	MODÈLE	SYSTÈME D'EXPLOITATION - NOM	LIEU	DERNIÈRE MODIFICATION	COMPOSANTS - PROCESSEUR
DESKTOP-10656U9		BOCHS_		DEMU	BXPC_	Microsoft Windows 10 Pro		2025-01-10 01:46	Intel Core i7-6770HQ CPU @ 2.60GHz