

ZABBIX

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INSTALLATION SERVEUR ZABBIX

Prérequis

- Avoir un serveur sous linux
- 1 Go de RAM
- 10 Go de stockage
- 1 CPU
- Avoir un serveur de base donné MySQL/MariaDB

Installation

```
wget https://repo.zabbix.com/zabbix/6.5/debian/pool/main/z/zabbix-release/zabbix-release_6.5-1%2Bdebian12_all.deb
```

- Mettez à jour le serveur:

```
apt update && apt upgrade
```

- Téléchargez l'utilitaire d'installation
- Installez le .deb

```
dpkg -i zabbix-release_6.5-1+debian12_all.deb
```

- Mettez à jour les repos et installez les bons paquets

```
apt update && apt install zabbix-server-mysql zabbix-frontend-php zabbix-apache-conf zabbix-sql-scripts zabbix-agent2 mariadb-client
```

- Création de la base de donnée

```
MariaDB [(none)]> create database zabbix character set utf8 collate utf8_bin;  
Query OK, 1 row affected (0.004 sec)
```

- Création du User et de son mot de passe

```
grant all privileges on zabbix.* to 'zabbix'@'%' identified by 'password';
```

- Autoriser la modifications des bin-log sur le serveur mysql:

```
set global log_bin_trust_function_creators = 1;
```

- Envoie des tables par défaut de zabbix sur la base de donnée

```
root@zab-front-01:~# zcat /usr/share/zabbix-sql-scripts/mysql/server.sql.gz |mysql -u zabbix -p zabbix -h 172.16.0.6
```

- Réactiver la protection des bin-log sur le serveur mysql:

```
set global log_bin_trust_function_creators = 0;
```

- Modifier le fichier `/etc/zabbix/zabbix_server.conf`

```
DBHost=172.16.0.6
```

```
DBPassword=zabbix
```

- Démarrer les services

```
systemctl restart zabbix-server zabbix-agent2 apache2  
systemctl enable zabbix-server zabbix-agent2 apache2
```

- Accéder au serveur Zabbix

ZABBIX

Welcome

Check of pre-requisites

Configure DB connection


Settings

Pre-installation summary

Install

Welcome to

Zabbix 7.0

Default language 

1

Back

Next step

- Welcome
- Check of pre-requisites
- Configure DB connection
- Settings
- Pre-installation summary
- Install

Check of pre-requisites

PHP gd PNG support	on		OK
PHP gd JPEG support	on		OK
PHP gd GIF support	on		OK
PHP gd FreeType support	on		OK
PHP libxml	2.9.14	2.6.15	OK
PHP xmlwriter	on		OK
PHP xmlreader	on		OK
PHP LDAP	on		OK
PHP OpenSSL	on		OK
PHP ctype	on		OK
PHP session	on		OK

1

Back

Next step

- Welcome
- Check of pre-requisites
- Configure DB connection
- Settings
- Pre-installation summary
- Install

Configure DB connection

Please create database manually, and set the configuration parameters for connection to this database. Press "Next step" button when done.

Database type

Database host

Database port 0 - use default port

Database name

Store credentials in Plain text HashiCorp Vault CyberArk Vault

User

Password

Database TLS encryption

Back

Next step



Settings

- Welcome
- Check of pre-requisites
- Configure DB connection
- Settings
- Pre-installation summary
- Install

Zabbix server name

Default time zone

Default theme

[Back](#) [Next step](#)



Pre-installation summary

- Welcome
- Check of pre-requisites
- Configure DB connection
- Settings
- Pre-installation summary
- Install

Please check configuration parameters. If all is correct, press "Next step" button, or "Back" button to change configuration parameters.

Database type **MySQL**
Database server **172.16.0.6**
Database port **default**
Database name **zabbix**
Database user **zabbix**
Database password *********
Database TLS encryption **false**

Zabbix server name **zab-front-01**

[Back](#) [Next step](#)

- Connectez vous avec l'identifiant Admin et le mot de passe zabbix

Si vous avez les même erreurs que moi:

```
root@zab-front-01:~# dpkg-reconfigure locales
```

Package configuration

Configuring locales

Locales are a framework to switch between multiple languages and allow users to use their language, country, characters, collation order, etc.

Please choose which locales to generate. UTF-8 locales should be chosen by default, particularly for new installations. Other character sets may be useful for backwards compatibility with older systems and software.

Locales to be generated:

```
[ ] en_SC.UTF-8 UTF-8
[ ] en_SG.UTF-8 UTF-8
[*] en_US.UTF-8 UTF-8
[ ] en_ZA.UTF-8 UTF-8
[ ] en_ZM UTF-8
[ ] en_ZW.UTF-8 UTF-8
[ ] eo UTF-8
```

<Ok>

<Cancel>

Zabbix Agent

Agent zabbix avec autoregistration

Prérequis

- Avoir un zabbix-server d'installé

Installation de zabbix agent

Le serveur que je vais ajouter est un serveur mariadb

- Installation via apt

```
apt install zabbix-agent2
```

- Editer le fichier de config `/etc/zabbix/zabbix_agent2.conf` et modifier:
Server=172.16.0.8
ServerActive=172.16.0.8
Hostname=zab-front-01
HostMetadata=Linux_db
- Redémarrer le service

```
root@sql-front-01:~# systemctl restart zabbix-agent2.service
root@sql-front-01:~# systemctl status zabbix-agent2.service
* zabbix-agent2.service - Zabbix Agent 2
   Loaded: loaded (/lib/systemd/system/zabbix-agent2.service; enabled; preset:
enabled)
   Active: active (running) since Wed 2023-12-06 15:44:55 UTC; 7s ago
     Docs: man:zabbix_agent2
  Main PID: 819 (zabbix_agent2)
    Tasks: 6 (limit: 9395)
   Memory: 4.1M
      CPU: 28ms
   CGroup: /system.slice/zabbix-agent2.service
           └─819 /usr/sbin/zabbix_agent2 -foreground -c
           /etc/zabbix/zabbix_agent2.conf

Dec 06 15:44:55 sql-front-01 systemd[1]: zabbix-agent2.service: Deactivated
successfully.
```

```
Dec 06 15:44:55 sql-front-01 systemd[1]: Stopped zabbix-agent2.service - Zabbix Agent 2.
Dec 06 15:44:55 sql-front-01 systemd[1]: Started zabbix-agent2.service - Zabbix Agent 2.
Dec 06 15:44:55 sql-front-01 zabbix_agent2[819]: Starting Zabbix Agent 2 (6.0.14)
Dec 06 15:44:55 sql-front-01 zabbix_agent2[819]: Zabbix Agent2 hostname: [zab-front-01]
Dec 06 15:44:55 sql-front-01 zabbix_agent2[819]: Press Ctrl+C to exit.
```

Paramétrer le serveur zabbix

- Ajouter une action

The screenshot displays the Zabbix web interface. On the left, a dark blue sidebar contains navigation options: Alerts, Actions, Media types, Scripts, Users, and Administration. A red circle with the number '1' is placed over the 'Alerts' menu item, and a red arrow points from it to the 'Alerts' text. Another red circle with the number '2' is placed over the 'Scripts' menu item, and a red arrow points from it to the 'Scripts' text. A third red circle with the number '3' is placed over the 'Autoregistration actions' option in the 'Actions' dropdown menu, with a red arrow pointing from it to the text. Below the sidebar, a 'Create action' button is highlighted with a red arrow. The main content area shows a table with a 'Status' column and a 'Filter' button. At the bottom right, it says 'Displaying 0 of 0 found'.

New action

Action **Operations** 4

* Name

Conditions

Label	Name	Action
A	Host metadata contains Linux	Remove

2

Enabled 3

* At least one operation must exist.

New action

Action **Operations**

Operations

Details	Action
<input type="button" value="Add"/> 1	

Operation details

Operation

* At least one operation must exist.

New action

Action **Operations 5**

Operations

Details	Action
Add host Add to host groups: Linux servers Link templates: Linux by Zabbix agent Enable host Set host inventory mode: Automatic <input type="button" value="Add"/>	Edit Remove Edit Remove Edit Remove Edit Remove Edit Remove

* At least one operation must exist.

- Attendre un peu et le le host est bien présent

- 🏠 Dashboards
- 👁 Monitoring 1
- Problems
- Hosts 2
- Latest data
- Maps
- Discovery
- 🛠 Services
- 📦 Inventory
- 📄 Reports
- 📥 Data collection
- 📧 Alerts
- 👤 Users
- ⚙ Administration

Name

Host groups

IP

DNS

Port

Severity Not classified Warning High
 Information Average Disaster

Motorisé par Lingvanex, hébergé chez Vivaldi.

Name	Interface	Availability	Tags	Status	Latest data	Problems	Graphs	Dashboards
zab-front-01	172.16.0.6:10050	ZBX	class: os target: linux	Enabled	Latest data 57	Problems	Graphs 10	Dashboards 2
Zabbix server	127.0.0.1:10050	ZBX	class: os class: software target: linux ***	Enabled	Latest data 124	Problems	Graphs 21	Dashboards 4

Displaying 2

3

WINDOWS SERVER CORE

Tout d'abord importer le package .msi de Zabbix Agent sur le Serveur Windows Core.

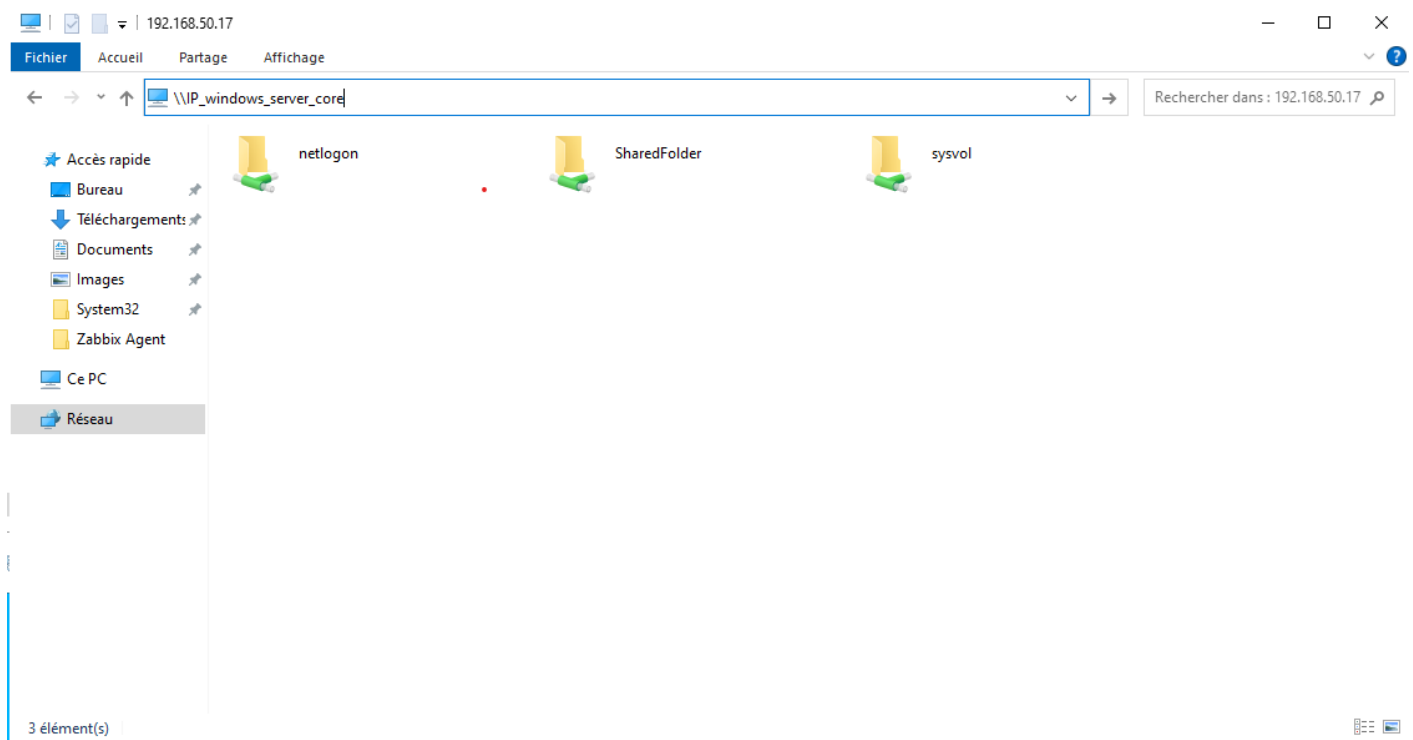
Le plus simple : créer un dossier partager et importer le fichier depuis le premier serveur AD.

- **Sur le Windows Core** (à modifier avec vos préférences):

```
New-Item "C:\SharedFolder" -itemType Directory
```

```
New-SmbShare -Name SharedFolder -Path "C:\SharedFolder" -FullAccess "Tout le monde"
```

Depuis le ad-front-01



- **Sur Windows Core**, exécuter le package .msi et suivre l'installation. (à modifier si besoin)

```
msiexec.exe /i C:\SharedFolder\zabbix_agent-6.4.10-windows-amd64-openssl.msi
```

- Maintenant faire les modifications nécessaires sur le fichier de conf

```
notepad 'C:\Program Files\Zabbix Agent\zabbix_agentd.conf'
```

IMPORTANT : Le serveur de monitoring doit être renseigné avec le domaine donc : zab-front-01.megaproduction.local

- Autoriser le pare-feu de Windows à communiquer avec le serveur **A EXECUTER EN POWERSHELL**

```
netsh advfirewall firewall add rule name="ICMP Allow incoming V4 echo request"  
protocol="icmpv4:8,any" dir=in action=allow
```

```
netsh advfirewall firewall add rule name="Open Port 10050" dir=in action=allow protocol=TCP  
localport=10050
```

- Enfin redémarrer le service et vérifier si Zabbix reçoit bien les données.

```
Restart-Service 'Zabbix Agent'
```

Divers

- Le fichier de log , utile pour comprendre le problème

```
notepad 'C:\Program Files\Zabbix Agent\zabbix_agentd.log'
```

Monitorer Equipement Cisco avec le protocole SNMP

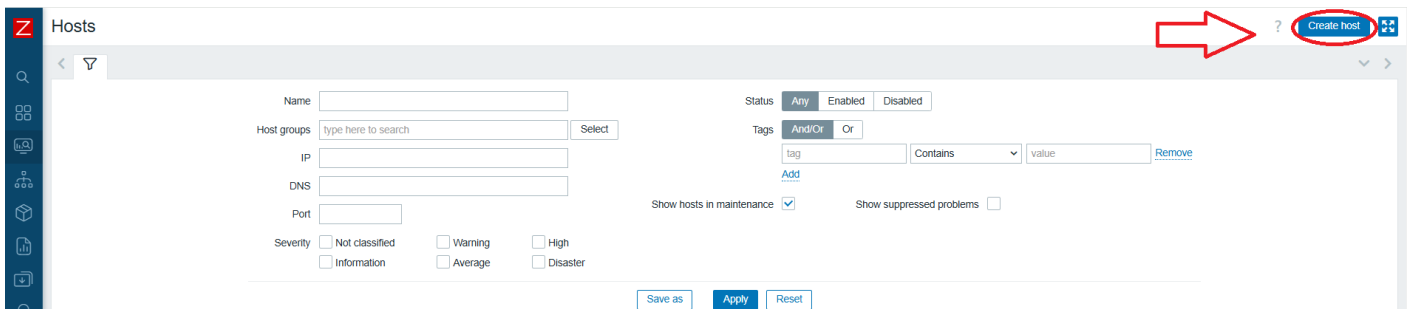
Connexion au routeur et Configuration SNMP

```
R1>  
R1> enable  
R1#  
R1#conf t  
R1(config)#  
R1(config)#snmp-server community Test@Sananet R0  
R1(config)#snmp-server enable traps config  
R1(config)#snmp-server host <IP_ZABBIX> version 2c Test@Sananet  
R1#copy running-config startup-config
```

N'oubliez pas de vérifier que la config est bien enregistré sinon au prochaine redémarrage tout les changements seront perdus
"show startup-config"

Sur Zabbix

Aller sur [MONITORING] puis [HOST] et créer un nouvel host



The screenshot displays the Zabbix 'Hosts' configuration interface. It includes a search bar, a 'Create host' button (highlighted with a red circle and a red arrow), and several configuration sections: Name, Host groups, IP, DNS, Port, Status (Any, Enabled, Disabled), Tags (And/Or, Or), and Severity (Not classified, Warning, High, Information, Average, Disaster). There are also checkboxes for 'Show hosts in maintenance' and 'Show suppressed problems', and buttons for 'Save as', 'Apply', and 'Reset'.

Host ? X

Host IPMI Tags Macros 1 Inventory Encryption Value mapping

* Host name

Visible name

Templates

Name	Action
Cisco IOS by SNMP	Unlink Unlink and clear

* Host groups

Interfaces

Type	IP address	DNS name	Connect to	Port	Default
SNMP	192.168.1.1		IP DNS	161	<input checked="" type="radio"/> Remove

[Add](#)

Description

Monitored by Server Proxy Proxy group

Enabled

Host ? X

Host IPMI Tags Macros 1 Inventory Encryption Value mapping

Host macros Inherited and host macros

Macro	Value	Description
{SNMP_COMMUNITY}	Test@Sananet	description

[Add](#)

Suivez la configuration, une fois fini vérifier que tout fonctionne

Aller à nouveau sur [MONITORING] puis [HOST] et regarder que cette ligne apparait bien avec le protocole SNMP de up

R1	192.168.1.1:161	SNMP	class: network target: cisco target: cisco-ios	Enabled	Latest data 82	Problems	Graphs 7	Dashboards 1	Web
----	-----------------	------	--	---------	----------------	----------	----------	--------------	-----