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. <u>https://www.zabbix.com/download_agents#tab:40LTS</u>



On ouvre l'exécutable

On accepte les termes et contrat d'utilisation.

Please read the fol	lowing license agreement carefully		ZA	BB	
G	GNU AFFERO GENERAL PU	JBLIC LIC	ENSE		I
		2007			
Copyright (C) 2007 Fr	ee Software Foundation, Inc. https://fsf.c	rg/			
Everyone is permitted t allowed.	to copy and distribute verbatim copies of	this license doct	ument, but changi	ng it is not	
Proomblo					
гтеашые					
I accept the term	is in the License Agreement				
			Net	6	
	Pfill	dCK	Next	Can	cei
On lai	sse le chemin d'ins	tallatior	n par déf	aut	
On lais Zabbix Agent (64-	sse le chemin d'ins	tallatior	n par déf	faut	
On lais Zabbix Agent (64- C ustom Setup	sse le chemin d'ins ^{bit) Setup}	tallatior	n par déf _	faut	
On lais Zabbix Agent (64- C ustom Setup Select the way yo	SSE le chemin d'ins bit) Setup u want features to be installed.	tallatior	n par déf _ ZA	faut BB	
On lais Zabbix Agent (64- C ustom Setup Select the way yo	SSE le chemin d'ins bit) Setup u want features to be installed.	tallatior	n par déf _ ZA	faut BB	
On lais Zabbix Agent (64- Custom Setup Select the way yo Click the icons in	SSE le chemin d'ins bit) Setup u want features to be installed. the tree below to change the way fe	tallatior	n par déf – ZA installed.	faut BB	
On lai: Zabbix Agent (64- Custom Setup Select the way yo Click the icons in	SSE le chemin d'ins bit) Setup u want features to be installed. the tree below to change the way fe Agent (64-bit) gent daemon abbix sender abbix get	eatures will be Zabbix Age monitoring local resour report the server.	installed.	on rely monitations and o Zabbix	or
On lai: Zabbix Agent (64- Custom Setup Select the way yo Click the icons in	sse le chemin d'ins bit) Setup u want features to be installed. the tree below to change the way fe Agent (64-bit) gent daemon abbix sender abbix get	eatures will be Zabbix Age monitoring local resour report the server. This feature hard drive. selected. Ti 8917KB on	installed. ent is deployed targets to active rces and applica gathered data to re requires 1KB It has 3 of 3 st he subfeatures your hard drive	on rely monitations and o Zabbix on your ubfeatures require e.	or

On rentre l'adresse du serveur zabbix

Host name:	WINSERV
Zabbix server ID/DNS.	102 168 30 1
Agent listen nort:	192.100.50.1
Server or Proxy for	
active checks:	192.168.30.1
	Enable PSK
	Add agent location to the PATH

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

🄁 Zabbix Agent (64-bit) Setup	-		X
Ready to install Zabbix Agent (64-bit)	Z	ABB	X
Click Install to begin the installation. Click Back to review or settings. Click Cancel to exit the wizard.	change any of your	installation	
Back	₩ Install	Canc	el

TrueNas via SNMP et ajout de l'hôte

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

		≡ <			(X) system	15° 🕼	Ê	Ļ	٥	
	a root	Services				TrueNAS	CORE®	© 2024 -		
	truenas.local									
	Dashboard		Q Filter Service							
*	Accounts	•	Name	Running	Start Automatically	Actions				
□	System	•	SMB			1				
Ē	Tasks	-	SNMP		×	1				
*	Network	-	SSH			1				
	Storage	÷	тетр			1				
•	Directory Services	-	UPS	•		1				
	Sharing	-	WebDAV	•		1				
			17 total							
*	Plugins									

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

			≡ <		(i)∕∕systems	¢	Ê	۰	٠	
	🛱 root				Tr	ueNAS	CORE®	© 2024		
	truenas.local		General Options							
	Dashboard		Location							0
*	Accounts	•	Contact							ଉ
□	System		Community ipssi							ଁ
Ē	Tasks		SNMP v3 Options							
x	Network		SNMP v3 Support @							
	Storage		Other Options							
•	Directory Services		Auxiliary Parameters							୭
	Sharing		Expose zilstat via SNMP 🕐							
			Log Level Error							0
*	Plugins									

On va dans data collection et on crée un Host group

ZABBI	X << 5	Host groups				? Create host group
Zabbix docker						V Filter
	Q			Name		
B Dashb	oards			Apply Reset		
🛄 Monito	ring ~					
🚓 Service	es ~	Name 🛦	Hosts			Info
		Applications				
	Jiy ~	Databases				
Report		Discovered hosts				
🗩 Data c	ollection 🗠	Hypervisors				
Templat	e groups	Linux servers				
Host gro	oups	PFSense	1 PFSense			
Templat	es	TrueNas	1 TrueNas			
Hosts		Virtual machines				
Mainten	ance	WINSERV	1 WINSERV			
Event c	orrelation	Zabbix servers	1 Zabbix server			
Discove	ny					Displaying 10 of 10 found
△ Alerts		0 selected Enable hosts Disa				
о О						
S Users						
දිාි Admini	istration ~					
C Support						
Integrat						
@				Zabbix 7.2.2. © 2001–2025, Zabbi	X SIA	

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

Ensuite on rentre les information nécessaires

ZABBIX « 🔊	Hosts							? Create	host [🕻
Zabbii docker	< 7	New host				7 ×			\sim >
C Dashboards		Host IPMI Tag	Macros Inventory Encryption Value mapping						
Monitoring ~		* Host name	PFSense					Demours	
Problems		Visible name	Pf/Sense					Keniove	
Hosts		Templates	type here to search		Select				
Latest data		* Host groups	type here to search		Select				
Maps		Interfaces	No interfaces are defined.						
Discovery			Add						
🖧 Services 🗸		Description							
🕥 Inventory ~	Name 🔺						15	Dashboards	Web
Reports ~	PFSense						IS 44	Dashboards 2	
Data salisation	TrueNas	Monitored by	Server Proxy Proxy group				rs 13	Dashboards 1	
	WINSERV	Enabled					IS 12	Dashboards 3	
لِيَ Alerts ~	Zabbix ser						IS 15	Dashboards 4	
🖄 Users 🗸 🗸						Add Cancel		Displaying	f of 4 found
🚯 Administration 🗸									
ij Support									
Integrations									
() Help									
은 User settings ~				Zabbii 7.2.2. ©	2001-2025, Zabba SIA				

On sélectionne la Template voulue

Temp	plates		×
Ten	nplate group Templates ×	Select	
	SEEL FORGELUGGE ROAD BY THE		
	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		1
	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		

Select Cancel

Puis on ajoute l'Host group

ZABBIX « 🔊	Hosts						? Create t	iost 👯
Zabba docker	< 7	New host		Host groups .	7 ×			
Dashboards		Host IPMI Tag	is Macros	Name				
Monitoring ~		* Host name	PFSense	Applications				
Problems		Visible name	PFSense	Databases			Remove	
Hosts		Templates	FreeBSD	Discovered hosts				
Latest data								
Maps		- Host groups	type nere	PFSense				
Discovery		internaces	Add	TrueNas				
çe Services ~		Description		Virtual machines				
💮 Inventory	Name 🔺			WINSERV				
Reports -	PFSense			Zabbix servers			Dashboards 2	
3	TrueNas			Select Cancel		5.13	Dashboards 1	
Data collection	WINSERV	Monitored by	Server	Proxy Proxy group		12	Dashboards 3	
👃 Alerts 🗸 🗸	Zabbix se	Enabled	~		-	5 15	Dashboards 4	
은, Users 🗸 🗸					Constant			
Administration ~				240	Gancer			
200 100 101								
(,) Support								
Integrations								
() Help								
은 User settings ~								

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

	Hosts		? Create t	iost 👯
Zabbii docher Q	S V New host ? ×			\sim >
Dashboards	Host IPMI Tags Macros Inventory Encryption Value mapping "Host name PFSense Visible name PFSense		Remove	
Hosts	Templates FreeBStro by Zabolu agent × Select by the to search Select			
Maps Discovery	*Host groups TexetBis X: type here to search Meterizes DIS name Consect to Port Detault			
Services -	A SIMP 192 168 10 25			
Inventory -	Name a "SNMP version SNMP versi	15 15 44	Dashboards Dashboards 2	Web Web
Data collection ~	TrueNas Max repetition court 🚯 10 WINGERV 🗸 Use combined requests	is 13 is 12	Dashboards 1 Dashboards 3	
Q Alerts ✓	Zabbix ser Add Description	is 15	Dashboards 4 Displaying 4	Web of 4 found
값 Administration ~				
Integrations Help	Montroved hv Dequeral Provy arrain Add Cancel			
은 User settings	Zabbin 7.2.2. © 2001–2025, Zabbin SIA			

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

ZABBIX « 🔊	Hosts										? Create	host
Zabbix docker	< 7											~ >
B Dashboards	Nam	P.				Status	Any Enab	led Disabled				
Monitoring A	Host group	type here to search			Select	Tags	And/Or O	Contains	 ✓ valt 	le	Remove	
Problems	DN	3					Add					
Latest data	Por	1				Show hosts in maintenance		Show suppressed problems				
Maps	Severit	/ Not classified	Warning Average	Disas	ster							
Given Services						Save as Apply	Reset					
🕅 Inventory 🔹	Name + Interface		Availability	Tags			Status	Latest data	Problems	Graphs	Dashboards	Web
👌 Reports 🗸 👻	PFSense 192.168	10.254:10050	ZBX	class, os tar	get freebsd	1	Enabled	Latest data 151	Problems	Graphs 44	Dashboards 2	Web
🔄 Data collection 👻	TrueNas 192.168	10.25:161	SNMP	class: hardwa	are target t	Iruenas-core	Enabled	Latest data 72	Problems	Graphs 13	Dashboards 1	Web
💭 Alerts 🗸 🗸	Zabbix server 172.19.0	15:10050	ZBX	class os cla	ss software	s target linux ***	Enabled	Latest data 145	Problems	Graphs 15	Dashboards 4	Web
⊖) Users →											Displaying 4	4 of 4 found
🚯 Administration 👻												
G Support												
Integrations												
⑦ Help												
오 User settings 🗸						Zabbix 7.2.2. © 2001–2025, Za	DDIX SIA					

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.

ZABBIX « 🔊	Hosts					Create t	nost 👫
Zabbix docker	< ∀ Host			? ×			\sim >
B Dashboards	Host IPMI Tags Macros Inven	tory Encryption Value mapping					
Monitoring ~	* Host name WINSERV					Demolie	
Problems	Visible name WINSERV						
Hosts	Templates Name	Actions					
Latest data	Windows by Zabbix a	Igent Unlink Unlink and clear	Colort				
Maps			Poloci				
Discovery	Type here to search		Select				
🕂 Services -	Interfaces Type IP addres	55 DNS name	Connect to Port De	efault			
🕥 Inventory ~	Name A Agent 192.168	3.10.252	IF DNS 10050	Remove	15	Dashboards	Web
Reports ~	PESense Add				15 44	Dashboards 2	
	TrueNas Description				IS 13	Dashboards 1	
L → Data collection ◆	WINSERV				is 12	Dashboards 3	
🛴 Alerts 🗸 🗸	Zabbix ser				is 15	Dashboards 4	
🖉 Users 🗸						Displaying 4	of 4 found
💮 Administration -	Monitored by Server Proxy	Proxy group					
100.000 10	Enabled						
G Support			Upd	ate Cione Delete Cancel			
Integrations							
⑦ Help							
User settings →		Zabbix 7.2.2	0 2001–2025. Zabbix SIA				

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



On ouvre l'installeur de l'agent Zabbix



On accepte les termes du contrat de licence

GNU GENERAL	PUBLIC LIC	FNSE		^
Version 2 Lune	1991	LIDL		
Conversion 2, Func	1001 Erec	Softwara I	Zoundotiou	
Inc.	69, 1991 FICE	software r	oundation	1,
51 Franklin Stre 1301, USA	et, Fifth Flo	oor, Boston	MA 021	10-
Evervone is nerm	uitted to com	and distri	hute	~

Choisir le dossier d'installation.

🛃 GLPI Agent 1.11 Setup		-		×
Destination Folder			1	0
Click Next to install to the default folder	or click Change to choose	another.		9
Install GLPI Agent 1.11 to:				
C:\Program Files\GLPI-Agent\]
Change				
	Back	Next	Can	cel

On choisit le type d'installation "Typical"

GLPI Age	ent 1.11 Setup			-		×
Choose	Setup Type				6	0
Choose	the setup type that	t best suits you	r needs			9
	Typical	1				
	Installs the most RemoteInventor	t common prog y tasks support	ram features with or	nly Inventory and		
	Custom	1				
	Allows users to will be installed.	choose which p Recommended	rogram features will d for advanced users	l be installed and	where they	
	Complete	1				
	All program feat	tures will be ins	talled.			
			1	111112	1	

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

ge duer Agent ist in larger setup			73% 1	11	×
Choose Targets				1	0
Choose where the result will be sent.					2
Local Target					
				Change	
Local path or UNC path					
Remote Targets					
Remote Targets http://192.168.10.1/ You can set multiple URIs by separating them with	n commas				
Remote Targets http://192.168.10.1/ You can set multiple URIs by separating them with 'https://server/glpi/,'	n commas				
Remote Targets http://192.168.10.1/ You can set multiple URIs by separating them with 'hitps://server/glpi/,'	n commas	Quick I	nstallat	ion	

Passer les option SSL en cliquant sur Next.

🛃 GLPI Agent 1.11 Setup		1000		×
Remote Targets SSL Options			1	0
Set SSL options.				9
SSL Options				
CA Certificates Directory				
I.				
CA Certificate File				
Fingerprint of SSL certificate to trust				_
Disable SSL check (for security rea	son, only use it	for debu	gging) 🗌	
Back	Ne	đ	Cano	el
			Press Constanting	

Cliquer sur Next.

GLPI Agent 1.11 Setup			-		×
Remote Targets Proxy Options				1	0
Set Proxy options.					8
Proxy Options					
Proxy server					
					-
Proxy server authentication user					
Proxy server authentication password					
	Doub	tinut		C	and a
	Back	Dead		Can	CEH

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.

🛃 GLPI Agent 1.11 Setup		-		×
Choose an Execution Mode			4	0
Choose which way you want GLPI Agent to be execute	d.			8
Execution Mode				
As a Windows Service				
As a Windows Task				
O Manually				
Run inventory immediatly after installatio	n			
Respect the frequency of inventories spe (recommended)	cified by the se	erver		
Install GLPI-AgentMonitor as systray icon	for all users			
				_
Bac	k N	iext 🛛	Can	cel

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

GLPI Age	nt 1.11 Setup		kirisi.	<u>L</u>
Windows	Task Options			
Set Wind	dows Task Options.			L.
	Windows Task Options			
	Frequency	Hour Interva	al j	
	Hourly ~	1	~	
				14:
		Back	blast	Cancal

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

ITP Server Optic	ons			
Set embedded HTTP	server options.			
mbedded HTTP Serv	er Options			
IP	Port			
0.0.0.0	62354			
Trusted IPs				
127.0.0.1/32				
127.0.0.1/32		Add exception on the Enable ember	Windows F	irewall 🗹 server 🗹

Mettre un Tag si souhaité. Cliquer sur Next.

Miscelaneous Options	1	0
Set preferences about miscelaneous options.		9
Miscelaneous Options		
Tag	_	
Scan home directory for virtual machines		
Scan user profiles for software		
	1	

Passer les options avancées en cliquant sur le bouton Next.

			1	
Advanced Options				C
Set Advanced Options.				E
Please, do not change the following opti and why.	ons whether you are not totall	y sure what	you are do	ping
Time Options (in seconds)	Other Options			
Connection Time Out	No P2P			
180	Scheduled tasks			
Delay Before the First Target				
3600	Omit These Tasks	s		
Task Execution Time Out				
180	Omit These Categ	jories		-
	1. A			
	1		1	
	Back	Next	Can	icel

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

Debug Options	Logger	
Level 2 V	File	÷
Log File		
C:\Program Files\GLPI-Age	ent\Jogs\glpi-agent.log	
Log File Max. Size (in MiB)		
14		

Cliquer sur "Installer". Puis attendre la fin de l'installation.



On voit que notre client remonte dans GLPI.

