Zabbix Agent Installation Guide

Tooling & Automation

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# Introduction

This document explains how to install Zabbix agent on a server on an on-premise or cloud environment.

# General process

Deploying Zabbix agent consists of following these steps :

1. Install binaries on server
2. Configure specifics values on configuration file of the agent
3. Start the agent

Zabbix agent can be installed manually or with an automation tool.

Inetum uses an AWX plateform to automate the installation of Zabbix agent.

The configuration file differs a bit depending on whether the agent is installed on an on-premise environment or a cloud environment.

## On-Premise environment

### Manual installation

### Commands to install binaries

Manually run the commands described in [Installation section](#_Installation) for your OS and its version in order to install binaries on the server.

* [AIX](#_AIX)
* [Linux](#_Linux_1)
* [Windows](#_Windows) (for Windows, this part consists of unzip the Zabbix archive)

### Configuration file

Once the installation is complete, the agent should be configured with specifics information.

* [Config file for AIX (on-premise)](#_Zabbix_config_file)
* [Config file for Linux (on-premise)](#_Zabbix_config_file_4)
* [Config file for Windows (on-premise)](#_Zabbix_config_file_5)

Expected value for each red field of the configuration file :

* IP\_OR\_VIP\_PROXY\_ZABBIX : Information provided by the Inetum Tooling Team. This tells the agent which proxy to connect to.
* lower\_case\_hostname\_without\_fqdn : The host name of the monitored server, defined in lowercase, without any fqdn. This value must exactly match with the name of the CI in Inetum CMDB.
* SERVER\_IP : The IP of the monitored server
* server\_environment (line Hostmetadata) : The environment with which the monitored server is associated (for example : production, preproduction, recette, qualification, integration, …)
* CUSTOMER\_NAME\_UPPER\_CASE\_WHITHOUT\_BLANK (line Hostmetadata) : Name of the customer defined on Zabbix Server side. Must exactly match with information provided by Inetum Tooling Team.

For windows server only, run the following command to install the agent :

Replace « D: » by « C: » if needed :

* 32 bits :

D:

D:\zabbix\bin\win32\zabbix\_agentd.exe --config D:\zabbix\conf\zabbix\_agentd.win.conf --install

* 64 bits :

D:

D:\zabbix\bin\win64\zabbix\_agentd.exe --config D:\zabbix\conf\zabbix\_agentd.win.conf --install

### Starting agent

Run the appropriate [startup commands](#_Start_command) for the OS.

### Automated installation

The above actions can be performed in any automated deployment tool, such as Ansible for example.

## Cloud environment

Installing the Zabbix agent on a Cloud environment is very similar to installing it on-premise. The commands are the same, but we may need to include them into the customer’s cloud provisioning process.

The configuration file will be a little different from an on-premise installation, as we will need to add new metadata in order to automate some actions on Zabbix side and to be able to deal with the incident correctly on ITSM side.

### AWS

### Commands to install binaries

Installtion commands to run depending on the IOS of EC2 instances :

* [Linux](#_Linux_1)
* [Windows](#_Windows)

### Configuration file

Once the installation is complete, the agent should be configured with specifics information.

* [Config file for Linux (AWS)](#_Zabbix_config_file_2)
* [Config file for Windows (AWS)](#_Zabbix_config_file_3)

First of all, we need to define what will be the value of “hostname” variable of the config file. Define this value is very important because alerts raised by Zabbix on the EC2 instance will be attached to this value. Thus, the “hostname” variable value must match to the name of the CI in Inetum CMDB and needs to be unique.

If the customer doesn’t have a naming rule on Cloud environment, Inetum’s proposal is to use the AWS instanceID.

Expected value for each red field of config file :

* IP\_OR\_VIP\_PROXY\_ZABBIX : Information provided by the Inetum Tooling Team. This tells the agent which proxy to connect to.
* lower\_case\_hostname\_without\_fqdn : The host name of the monitored server, defined in lowercase, without any fqdn. This value must exactly match with the name of the CI in Inetum CMDB. InstanceID if the customer doesn’t have naming rule.
* SERVER\_IP : The IP of the monitored server
* server\_environment : The environment with which the monitored server is associated (for example : production, preproduction, recette, qualification, integration, …)
* CUSTOMER\_NAME\_UPPER\_CASE\_WHITHOUT\_BLANK : Name of the customer defined on Zabbix Server side. Must exactly match with information provided by Inetum Tooling Team.
* ASG\_boolean :
  + 0 if it’s a standalone instance
  + 1 if the instance is managed by an ASG
* ASG\_NAME :
  + If previous field is set to 0, this filed is empty (..//..)
  + If previous field is set to 1, the name of the ASG is mandatory here
* SERVICE\_CLASS : The name of the service class associated to the monitored service. Service class name must match with service class defined in Inetum CMDB for the customer
* REGION : AWS region on which the monitored server is deployed
* APPLICATION : The name of the application delivers by the monitored server

### Starting agent

Run the appropriate [startup commands](#_Start_command) for the OS.

These 3 steps can be done manually on each standalone EC2 instances or be automated with SSM or any automation tool.

### Case of ASG

### Include Zabbix Agent to AMI

In the case of EC2 managed by ASG, the agent must be installed in the AMI used by ASG.

To do that :

* deploy a new instance from the latest version of the used AMI,
* install Zabbix agent as describe in [Commands to install binaries](#_Commands_to_install)
* copy [Zabbix config file for Linux (AWS)](#_Zabbix_config_file_2) in /etc/zabbix/zabbix\_agentd.conf
* modify in the file these fields with the appropriate :
  + IP\_OR\_VIP\_PROXY\_ZABBIX : Information provided by the Inetum Tooling Team. This tells the agent which proxy to connect to.
  + CUSTOMER\_NAME\_UPPER\_CASE\_WHITHOUT\_BLANK (line Hostmetadata) : Name of the customer defined on Zabbix Server side. Must exactly match with information provided by Inetum Tooling Team
  + ASG\_boolean : 1
* build a new version of AMI from this instance

### Userdata script to customize the config file

A Userdata can be used to retrieve the required values from the instantiated EC2, modify the configuration file with thoses values and start the agent.

Prerequisites of using Userdata :

* Have the AWS CLI installed
* Have include Zabbix agent and config file in the AMI as describe previously
* Have the tag named “Env” (or replace the name “Env” by the tag that defines the environment)
* Have the tag named "autoscaling:groupName" (automatic if propagation of tag is active, or replace the name “autoscaling:groupName" by the tag that defines the ASG name)
* Have the tag named “service\_class” (or replace it by the tag that defines the service class level of the EC2 instance)
* Have the tag “application” (or replace it by the tag that defines the application hosted by the EC2 instance)
* Amazon Linux 2 OS
* Have access to describe tags (IAM role)

Add the following lines in the ASG Userdata :

################### USERDATA configuration: ###################

################### VARIABLES ###################

#! /bin/bash

INSTANCE\_ID=$(curl http://169.254.169.254/latest/meta-data/instance-id)

REGION=$(curl http://169.254.169.254/latest/dynamic/instance-identity/document | grep region | awk -F\" '{print $4}')

ENV=$(aws ec2 describe-tags --region $REGION --filter "Name=resource-id,Values=$INSTANCE\_ID" --output=text | sed -r 's/TAGS\t(.)\t.\t.\t(.)/\1="\2"/' | grep Env | awk '{print $5}')

ASG\_NAME=$(aws ec2 describe-tags --region $REGION --filter "Name=resource-id,Values=$INSTANCE\_ID" --output=text | sed -r 's/TAGS\t(.)\t.\t.\t(.)/\1="\2"/' | grep groupName | awk '{print $5}')

SERVICE\_CLASS=$(aws ec2 describe-tags --region $REGION --filter "Name=resource-id,Values=$INSTANCE\_ID" --output=text | sed -r 's/TAGS\t(.)\t.\t.\t(.)/\1="\2"/' | grep service\_class | awk '{print $5}')

APPLICATION=$(aws ec2 describe-tags --region $REGION --filter "Name=resource-id,Values=$INSTANCE\_ID" --output=text | sed -r 's/TAGS\t(.)\t.\t.\t(.)/\1="\2"/' | grep application | awk '{print $5}')

################### UPDATE zabbix\_agent.conf ###################

sed -i "s/lower\_case\_hostname\_without\_fqdn/$INSTANCE\_ID/g" /etc/zabbix/zabbix\_agentd.conf

sed -i "s/SERVER\_IP/`ip address show dev eth0 | grep -oP '(?<=inet\s)\d+(\.\d+){3}'`/g" /etc/zabbix/zabbix\_agentd.conf

sed -i "s/server\_environment/$ENV/g" /etc/zabbix/zabbix\_agentd.conf

sed -i "s/ASG\_NAME/$ASG\_NAME/g" /etc/zabbix/zabbix\_agentd.conf

sed -i "s/SERVICE\_CLASS/$SERVICE\_CLASS/g" /etc/zabbix/zabbix\_agentd.conf

sed -i "s/REGION/$REGION/g" /etc/zabbix/zabbix\_agentd.conf

sed -i "s/APPLICATION/$APPLICATION/g" /etc/zabbix/zabbix\_agentd.conf

################### daemon zabbix ###################

/usr/bin/systemctl enable zabbix-agent

/usr/bin/systemctl start zabbix-agent

#############################

# Installation Commands

## AIX

### AIX 7.2

The version to install is: **4.0.7**

Commands must be executed with **root** user.

[zabbix\_agent-4.0.7-aix-7.2-powerpc-openssl.tar.gz](https://www.zabbix.com/download_agents?version=4.0+LTS&release=4.0.7&os=AIX&os_version=7.2&hardware=powerpc&encryption=OpenSSL&packaging=Archive) file have to be downloaded from Zabbix’s official website et upload into /tmp/ directory.

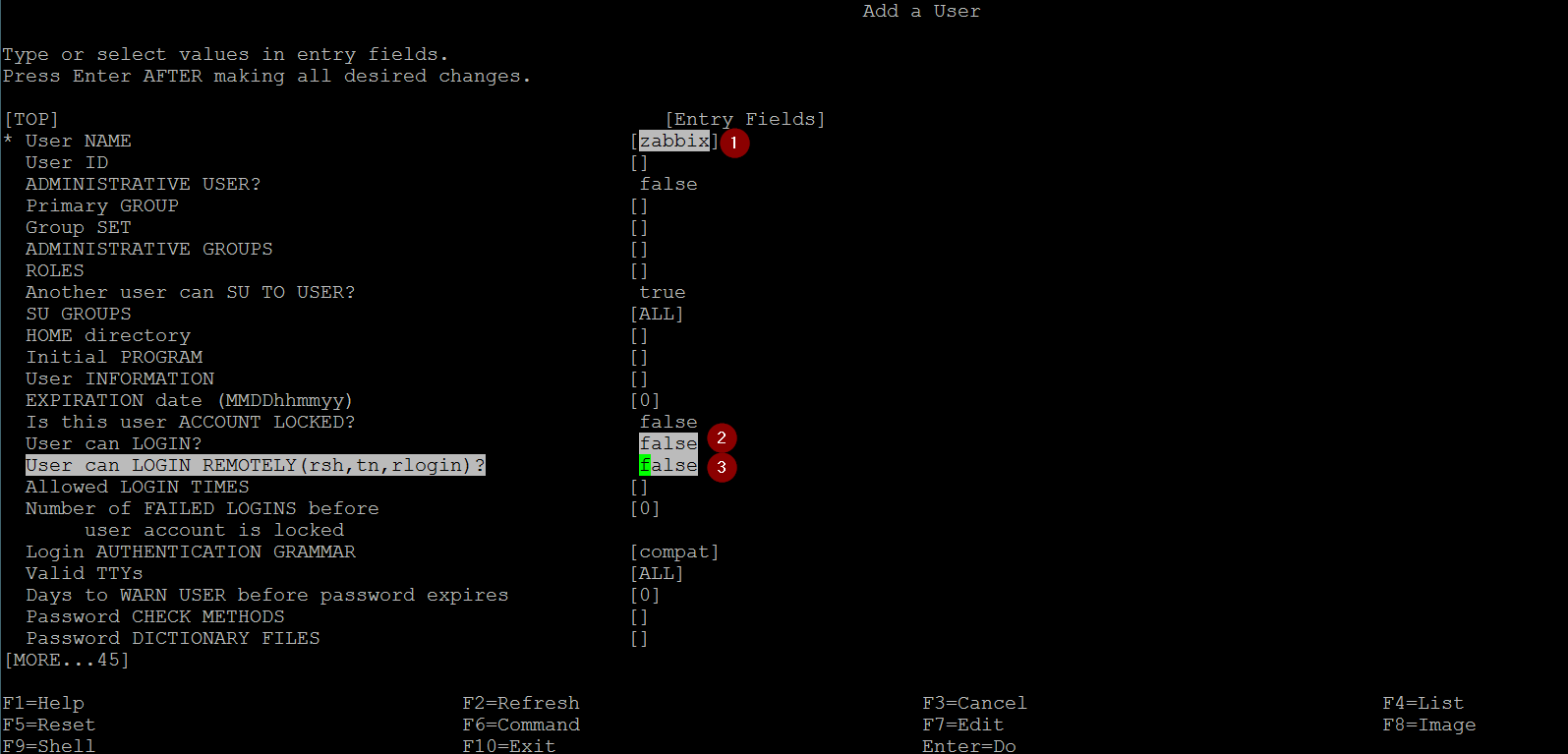
Creation of Zabbix’s user:

smitty user

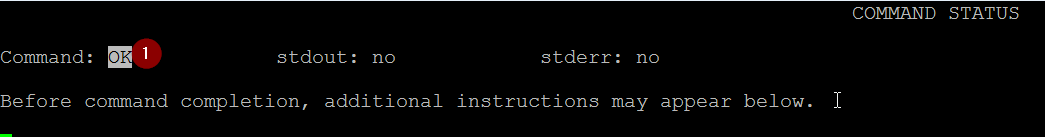
# Choose “Add a User”

# Complete the field “name” (1)

# Go to the fields (2) et (3) with TAB and set “False” value



# Press « Enter » to see “OK” (1) :



# Finally press “F10” to quit the menu

Création of Zabbix’s directories :

mkdir -p /etc/zabbix /var/run/zabbix /var/log/zabbix

mv /tmp/zabbix\_agent-4.0.7-aix-7.2-powerpc-openssl.tar.gz /etc/zabbix/

cd /etc/zabbix/

gzip -d zabbix\_agent-4.0.7-aix-7.2-powerpc-openssl.tar.gz

tar -xf zabbix\_agent-4.0.7-aix-7.2-powerpc-openssl.tar

rm -f zabbix\_agent-4.0.7-aix-7.2-powerpc-openssl.tar

chown -R zabbix /etc/zabbix /var/run/zabbix /var/log/zabbix

mv /etc/zabbix/bin/\* /usr/sbin/

mv /etc/zabbix/sbin/\* /usr/sbin/

mv /etc/zabbix/conf/zabbix\_agentd.conf /etc/zabbix/

mv /etc/zabbix/conf/zabbix\_agentd /etc/zabbix/zabbix\_agentd.d

rm -r /etc/zabbix/bin/ /etc/zabbix/sbin/ /etc/zabbix/conf/

rm /etc/zabbix/zabbix\_agentd.d/userparameter\_examples.conf /etc/zabbix/zabbix\_agentd.d/userparameter\_mysql.conf

### AIX 7.1

The version to install is : **3.4.0**.

Commands must be executed with **root** user.

[zabbix\_agent-3.4.0-aix-7.1-powerpc.tar.gz](https://www.zabbix.com/downloads/3.4.0/zabbix_agent-3.4.0-aix-7.1-powerpc.tar.gz) file have to be downloaded from Zabbix’s official website et upload into /tmp/ directory.

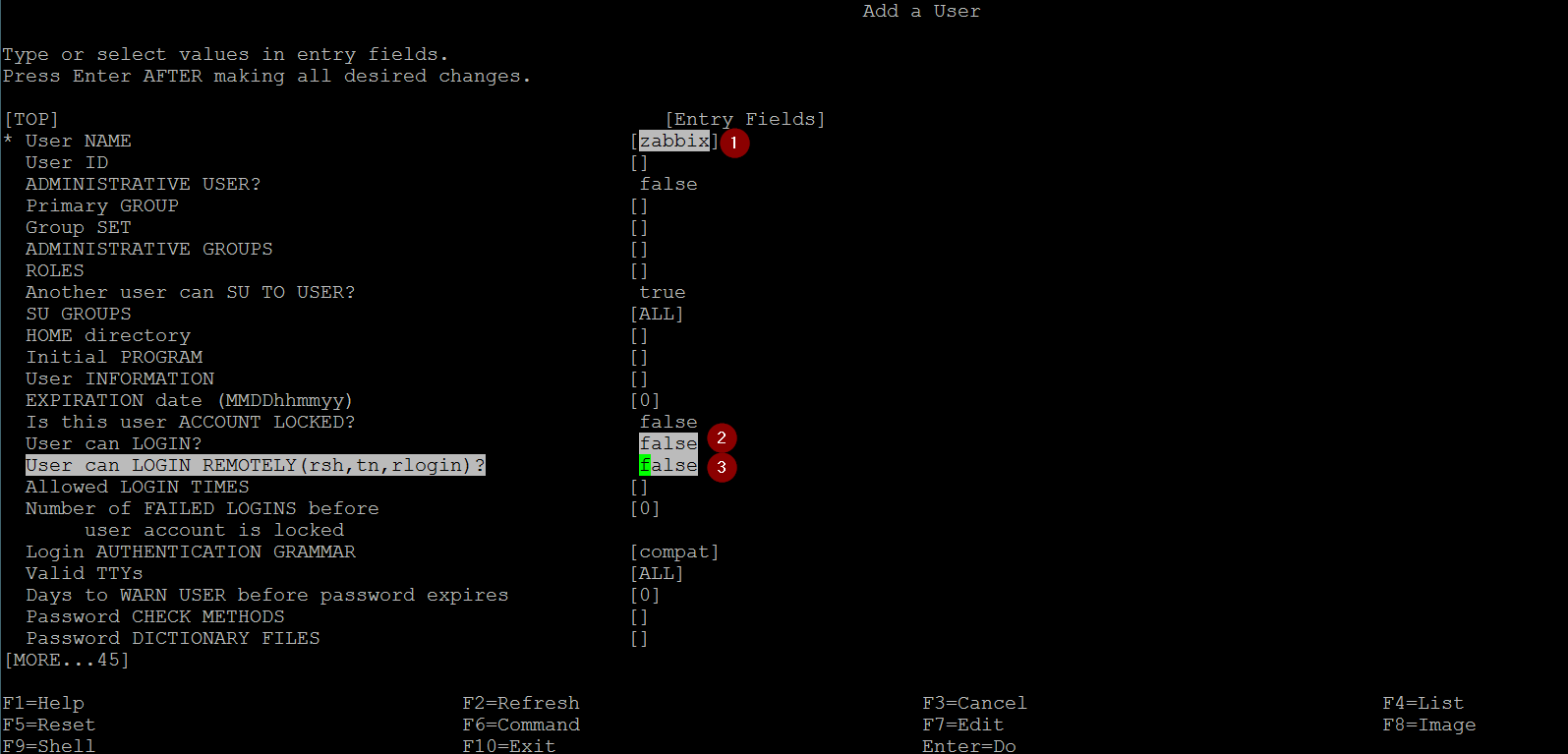
Creation of Zabbix’s user :

smitty user

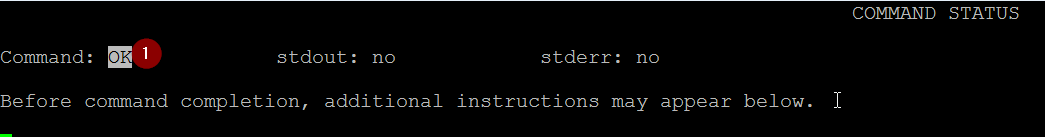
# Choose “Add a User”

# Complete the field “name” (1)

# Go to the fields (2) et (3) with TAB and set “False” value



# Press « Enter » to see “OK” (1) :



# Finally press “F10” to quit the menu

Création of Zabbix’s directories :

mkdir -p /etc/zabbix /var/run/zabbix /var/log/zabbix

mv /tmp/zabbix\_agents\_3.4.0.aix7\_1.power.tar.gz /etc/zabbix/

cd /etc/zabbix/

gzip -d zabbix\_agents\_3.4.0.aix7\_1.power.tar.gz

tar -xf zabbix\_agents\_3.4.0.aix7\_1.power.tar

rm -f zabbix\_agents\_3.4.0.aix7\_1.power.tar

chown -R zabbix /etc/zabbix /var/run/zabbix /var/log/zabbix

mv /etc/zabbix/bin/\* /usr/sbin/

mv /etc/zabbix/sbin/\* /usr/sbin/

mv /etc/zabbix/conf/zabbix\_agentd.conf /etc/zabbix/

mv /etc/zabbix/conf/zabbix\_agentd /etc/zabbix/zabbix\_agentd.d

rm -r /etc/zabbix/bin/ /etc/zabbix/sbin/ /etc/zabbix/conf/

rm /etc/zabbix/zabbix\_agentd.d/userparameter\_examples.conf /etc/zabbix/zabbix\_agentd.d/userparameter\_mysql.conf

### AIX 6.1

The version to install is : **2.4.4**

Commands must be executed with **root** user.

[zabbix\_agent-2.4.4-aix-6.1-powerpc.tar.gz](https://www.zabbix.com/downloads/2.4.4/zabbix_agent-2.4.4-aix-6.1-powerpc.tar.gz) file have to be downloaded from Zabbix’s official website et upload into /tmp/ directory.

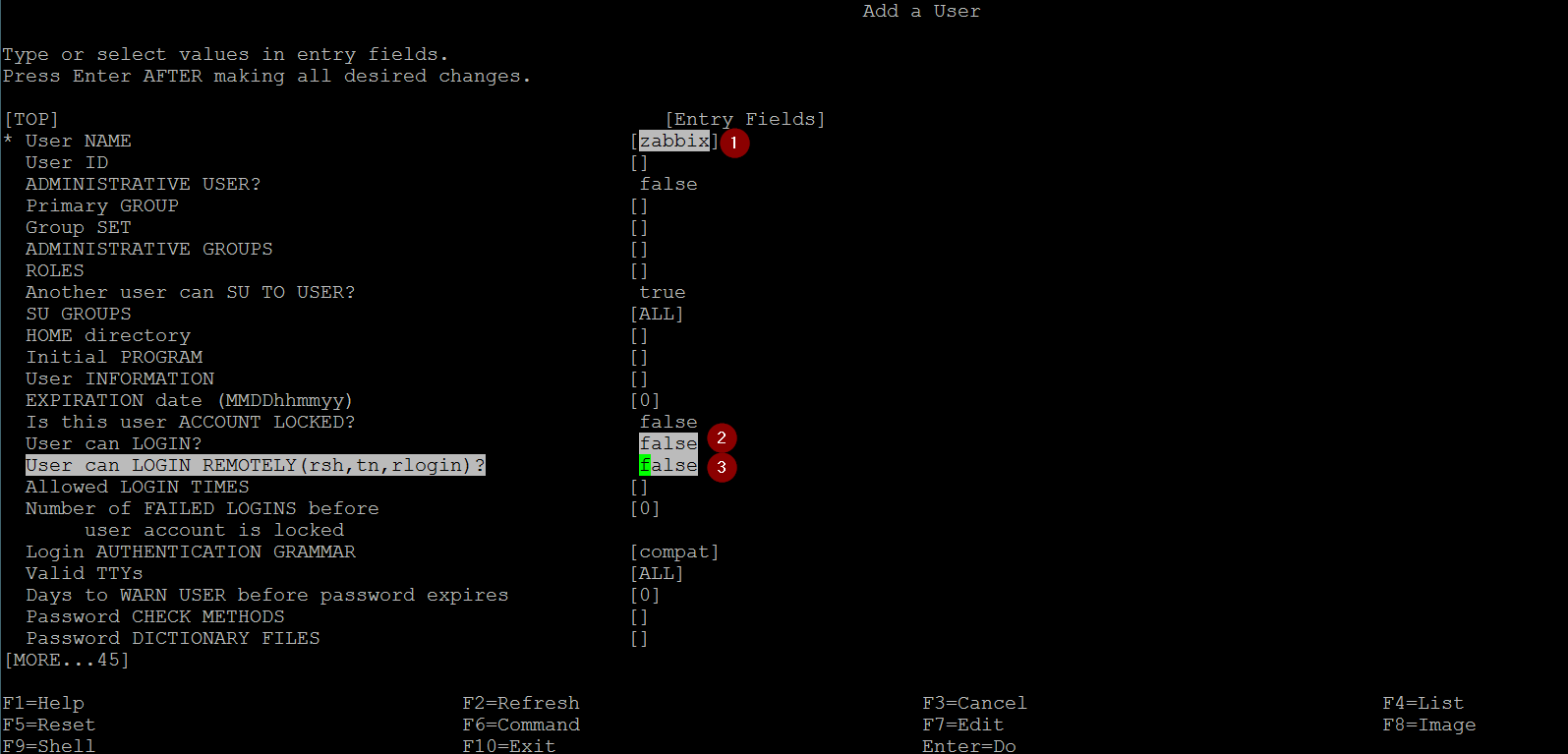
Creation of Zabbix’s user :

smitty user

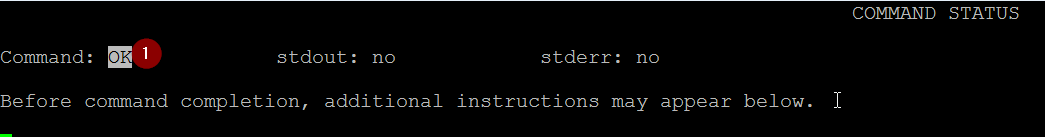
# Choose “Add a User”

# Complete the field “name” (1)

# Go to the fields (2) et (3) with TAB and set “False” value



# Press « Enter » to see “OK” (1) :



# Finally press “F10” to quit the menu

Création of Zabbix’s directories :

mkdir -p /etc/zabbix /var/run/zabbix /var/log/zabbix

mv /tmp/zabbix\_agents\_2.4.4.aix6100.powerpc.tar.gz /etc/zabbix/

cd /etc/zabbix/

gzip -d zabbix\_agents\_2.4.4.aix6100.powerpc.tar.gz

tar -xf zabbix\_agents\_2.4.4.aix6100.powerpc.tar

rm -f zabbix\_agents\_2.4.4.aix6100.powerpc.tar

chown -R zabbix /etc/zabbix /var/run/zabbix /var/log/zabbix

mv /etc/zabbix/bin/\* /usr/sbin/

mv /etc/zabbix/sbin/\* /usr/sbin/

mv /etc/zabbix/conf/zabbix\_agentd.conf /etc/zabbix/

mv /etc/zabbix/conf/zabbix\_agentd /etc/zabbix/zabbix\_agentd.d

rm -r /etc/zabbix/bin/ /etc/zabbix/sbin/ /etc/zabbix/conf/

rm /etc/zabbix/zabbix\_agentd.d/userparameter\_examples.conf /etc/zabbix/zabbix\_agentd.d/userparameter\_mysql.conf

### AIX 5.3

The version to install is : **2.4.4**

Commands must be executed with **root** user.

[zabbix\_agent-2.4.4-aix-5.3.06-powerpc.tar.gz](https://www.zabbix.com/downloads/2.4.4/zabbix_agent-2.4.4-aix-5.3.06-powerpc.tar.gz) file have to be downloaded from Zabbix’s official website et upload into /tmp/ directory.

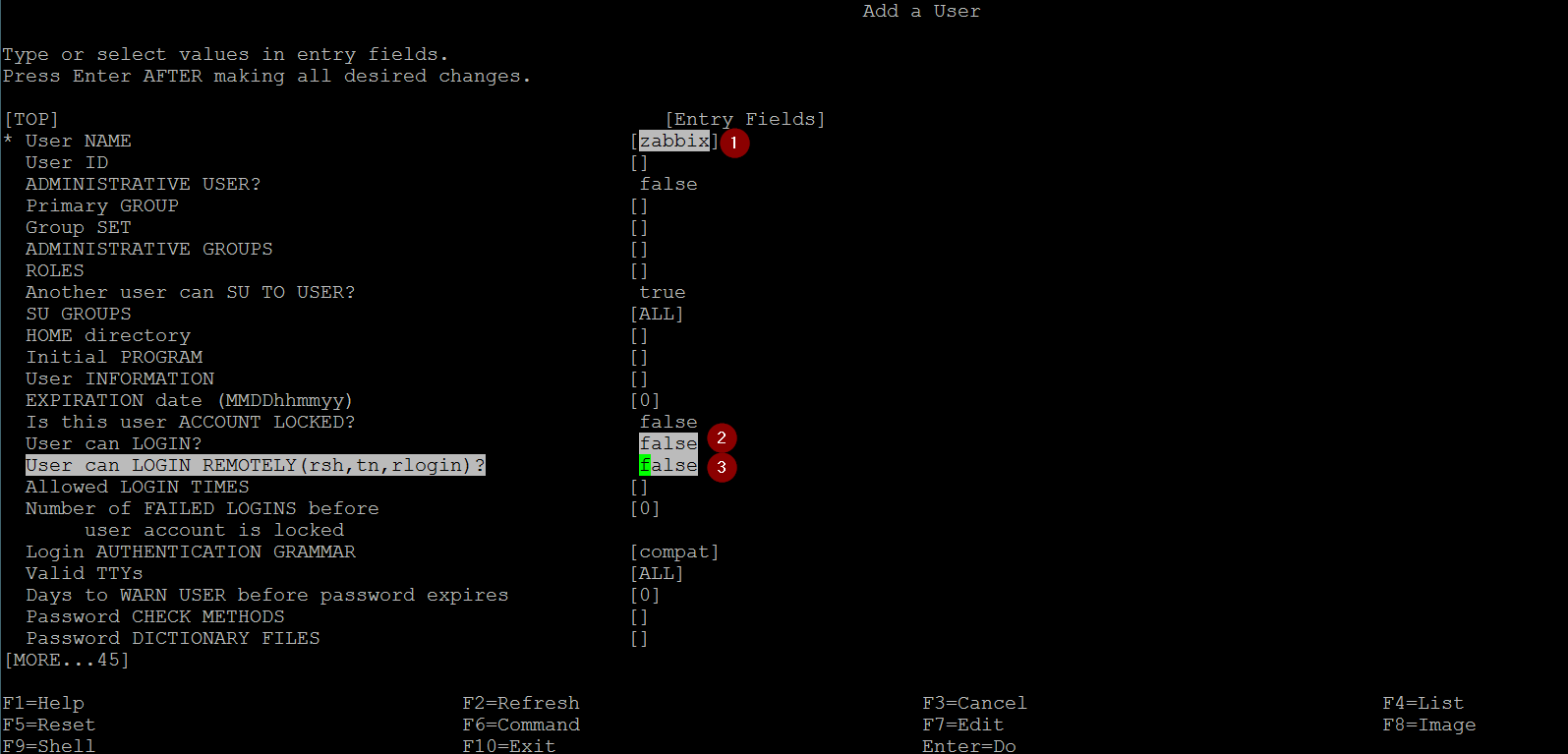
Creation of Zabbix’s user :

smitty user

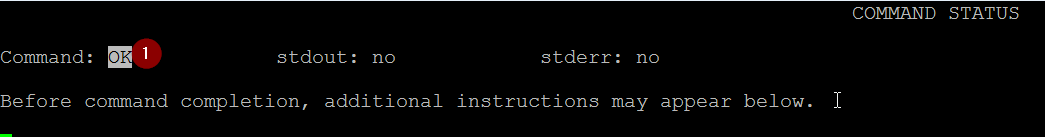
# Choose “Add a User”

# Complete the field “name” (1)

# Go to the fields (2) et (3) with TAB and set “False” value



# Press « Enter » to see “OK” (1) :



# Finally press “F10” to quit the menu

Création of Zabbix’s directories :

mkdir -p /etc/zabbix /var/run/zabbix /var/log/zabbix /lib/zabbix

mv /tmp/zabbix\_agents\_2.4.4.aix5300-06.powerpc.tar.gz /etc/zabbix/

cd /etc/zabbix/

gzip -d zabbix\_agents\_2.4.4.aix5300-06.powerpc.tar.gz

tar -xf zabbix\_agents\_2.4.4.aix5300-06.powerpc.tar

rm -f zabbix\_agents\_2.4.4.aix5300-06.powerpc.tar

chown -R zabbix /etc/zabbix /var/run/zabbix /var/log/Zabbix /lib/zabbix

mv /etc/zabbix/bin/\* /usr/sbin/

mv /etc/zabbix/sbin/\* /usr/sbin/

mv /etc/zabbix/conf/zabbix\_agentd.conf /etc/zabbix/

mv /etc/zabbix/conf/zabbix\_agentd /etc/zabbix/zabbix\_agentd.d

rm -r /etc/zabbix/bin/ /etc/zabbix/sbin/ /etc/zabbix/conf/

rm /etc/zabbix/zabbix\_agentd.d/userparameter\_examples.conf /etc/zabbix/zabbix\_agentd.d/userparameter\_mysql.conf

Ask Tooling team to have the ibiconv.a library and upload it to /lib/zabbix/ directory on AIX server

## Linux

The version to install is : **4.0.33**

Commands must be executed with **root** user.

### Debian

### Debian 10

wget https://repo.zabbix.com/zabbix/4.0/debian/pool/main/z/zabbix-release/zabbix-release\_4.0-3+buster\_all.deb

dpkg -i zabbix-release\_4.0-3+buster\_all.deb

apt-get update

apt-get install zabbix-agent zabbix-get zabbix-sender

### Debian 9

wget https://repo.zabbix.com/zabbix/4.0/debian/pool/main/z/zabbix-release/zabbix-release\_4.0-3+buster\_all.deb

dpkg -i zabbix-release\_4.0-3+buster\_all.deb

apt-get update

apt-get install zabbix-agent zabbix-get zabbix-sender

### Debian 8

wget https://repo.zabbix.com/zabbix/4.0/debian/pool/main/z/zabbix-release/zabbix-release\_4.0-3+stretch\_all.deb

dpkg -i zabbix-release\_4.0-3+stretch\_all.deb

apt-get update

apt-get install zabbix-agent zabbix-get zabbix-sender

### CentOS / RedHat

### Version 7

rpm -ivh https://repo.zabbix.com/zabbix/4.0/rhel/7/x86\_64/zabbix-release-4.0-2.el7.noarch.rpm

yum install zabbix-agent zabbix-get zabbix-sender

If SELinux is active, execute those commands :

setsebool -P nis\_enabled on

setsebool -P zabbix\_can\_network on

### Version 6

### i386 architecture

rpm -ivh https://repo.zabbix.com/zabbix/4.0/rhel/6/i386/zabbix-release-4.0-2.el6.noarch.rpm

yum install zabbix-agent zabbix-get zabbix-sender

### x86\_64 architecture

rpm -ivh https://repo.zabbix.com/zabbix/4.0/rhel/6/x86\_64/zabbix-release-4.0-2.el6.noarch.rpm

yum install zabbix-agent zabbix-get zabbix-sender

### Version 5

### i386 architecture

rpm -ivh https://repo.zabbix.com/zabbix/4.0/rhel/5/i386/zabbix-release-4.0-2.el5.noarch.rpm

yum install zabbix-agent zabbix-get zabbix-sender

### x86\_64 architecture

rpm -ivh https://repo.zabbix.com/zabbix/4.0/rhel/5/x86\_64/zabbix-release-4.0-2.el5.noarch.rpm

yum install zabbix-agent zabbix-get zabbix-sender

### Version 4

The version to install is : **3.0.10**

Commands must be executed with **root** user.

cd /tmp/

wget 'https://www.zabbix.com/downloads/3.0.10/zabbix\_agents\_3.0.10.linux2\_4.i386.tar.gz'

useradd zabbix

mkdir -p /etc/zabbix /var/run/zabbix /var/log/zabbix

cd /etc/zabbix

mv /tmp/zabbix\_agents\_3.0.10.linux2\_4.i386.tar.gz /etc/zabbix/

tar -xvzf zabbix\_agents\_3.0.10.linux2\_4.i386.tar.gz

rm -f zabbix\_agents\_3.0.10.linux2\_4.i386.tar.gz

chown -R zabbix:zabbix /etc/zabbix /var/run/zabbix /var/log/zabbix

chmod +x /etc/init.d/zabbix-agent

### Suse

To verify the version :

cat /etc/issue

### Suse 11

The version to install is : **2.2.14**

Commands must be executed with **root** user.

zypper addrepo http://download.opensuse.org/repositories/server:monitoring/SLE\_11\_SP3/server:monitoring.repo

zypper refresh

zypper install zabbix-agent

### Ubuntu

### Ubuntu 20.04

wget https://repo.zabbix.com/zabbix/4.0/ubuntu/pool/main/z/zabbix-release/zabbix-release\_4.0-3+focal\_all.deb

dpkg -i zabbix-release\_4.0-3+focal\_all.deb

apt-get update

apt-get install zabbix-agent zabbix-get zabbix-sender

### Ubuntu 18.04

wget https://repo.zabbix.com/zabbix/3.4/ubuntu/pool/main/z/zabbix-release/zabbix-release\_3.4-1+xenial\_all.deb

dpkg -i zabbix-release\_3.4-1+xenial\_all.deb

apt-get update

apt-get install zabbix-agent zabbix-get zabbix-sender

### Ubuntu 14.04

wget https://repo.zabbix.com/zabbix/4.0/ubuntu/pool/main/z/zabbix-release/zabbix-release\_4.0-3+trusty\_all.deb

dpkg -i zabbix-release\_4.0-3+trusty\_all.deb

apt-get update

apt-get install zabbix-agent zabbix-get zabbix-sender

## Windows

The version to install is : **4.0.33**. (⚠ for Windows 2000, the version to install is **3.2.0**.)

Installation must be done with an **administrator account**.

We recommend to install the agent on « D: » drive if existing. Otherwise use drive « C: ».

### 32 bits architecture

Download this file : <https://cdn.zabbix.com/zabbix/binaries/stable/4.0/4.0.33/zabbix_agent-4.0.33-windows-i386.zip> (⚠ for Windows 2000 : version [3.2.0](https://www.zabbix.com/downloads/3.2.0/zabbix_agents_3.2.0.win.zip).)

Extract the archive to the root of « D: » or « C : ».

Open de DOS window with administrator rights and execute those following commands (replace « D: » by « C: » if needed) :

D:

rename zabbix\_agent-4.0.33-windows-i386 Zabbix

cd Zabbix

mkdir logs

mkdir conf\zabbix\_agentd.conf.d

### 64 bits architecture

Download this file: <https://cdn.zabbix.com/zabbix/binaries/stable/4.0/4.0.33/zabbix_agent-4.0.33-windows-amd64.zip>

Extract the archive to the root of « D: » or « C : ».

Open de DOS window with administrator rights and execute those following commands (replace « D: » by « C: » if needed) :

D:

rename zabbix\_agent-4.0.33-windows-amd64 Zabbix

cd Zabbix

mkdir logs

mkdir conf\zabbix\_agentd.conf.d

# Start commands

## AIX

### AIX 7.2

mkitab 'zabbix:2:once:su zabbix "-c /usr/sbin/zabbix\_agentd -c /etc/zabbix/zabbix\_agentd.conf"'

su – zabbix /usr/sbin/zabbix\_agentd -c /etc/zabbix/zabbix\_agentd.conf

### AIX 7.1

mkitab 'zabbix:2:once:su zabbix "-c /etc/zabbix/sbin/zabbix\_agentd -c /etc/zabbix/conf/zabbix\_agentd.conf"'

su - zabbix

/usr/sbin/zabbix\_agentd -c /etc/zabbix/zabbix\_agentd.conf

### AIX 6.1

mkitab 'zabbix:2:once:su zabbix "-c /etc/zabbix/sbin/zabbix\_agentd -c /etc/zabbix/conf/zabbix\_agentd.conf"'

su - zabbix

/usr/sbin/zabbix\_agentd -c /etc/zabbix/zabbix\_agentd.conf

### AIX 5.3

mkitab 'zabbix:2:once:su zabbix "-c LIBPATH=/lib/zabbix /usr/sbin/zabbix\_agentd -c /etc/zabbix/zabbix\_agentd.conf "'

su – zabbix

LIBPATH=/lib/zabbix /usr/sbin/zabbix\_agentd -c /etc/zabbix/zabbix\_agentd.conf

## Linux

### Debian

systemctl enable zabbix-agent.service

systemctl start zabbix-agent.service

### CentOS / RedHat

### Version 7

systemctl enable zabbix-agent.service

systemctl start zabbix-agent.service

### Version 6 and less

chkconfig zabbix-agent on

service zabbix-agent start

### Suse

chkconfig zabbix-agentd on

rczabbix-agentd start

### Ubuntu

### Ubuntu 18.04 and more

systemctl enable zabbix-agent

systemctl start zabbix-agent

### Ubuntu 14.04

update-rc.d zabbix-agent enable

service zabbix-agent start

## Windows

D:\zabbix\bin\win32\zabbix\_agentd.exe -s

# Configuration files

## Zabbix config file for AIX (on-premise)

Location : /etc/zabbix/conf/zabbix\_agentd.conf

## Proxy  
ServerActive=IP\_OR\_VIP\_PROXY\_ZABBIX:10052  
Server=IP\_OR\_VIP\_PROXY\_ZABBIX

## Agent  
Hostname=lower\_case\_hostname\_without\_fqdn  
ListenIP=SERVER\_IP  
SourceIP=SERVER\_IP  
ListenPort=10050  
Timeout=3  
AllowRoot=0  
RefreshActiveChecks=120  
PidFile=/var/run/zabbix/zabbix\_agentd.pid  
LogFile=/var/log/zabbix/zabbix\_agentd.log  
LogFileSize=100  
DebugLevel=3

## Command behavior  
EnableRemoteCommands=1  
LogRemoteCommands=0  
StartAgents=3

## Host   
HostMetadata=Aix/server\_environment/CUSTOMER\_NAME\_UPPER\_CASE\_WHITHOUT\_BLANK

## Stream  
BufferSend=5  
BufferSize=100  
MaxLinesPerSecond=100

## Alias, modules and userparameters  
UnsafeUserParameters=0  
LoadModulePath=${libdir}/modules  
Include=/etc/zabbix/zabbix\_agentd.d/

## Zabbix config file for Linux (on-premise)

Location : /etc/zabbix/zabbix\_agentd.conf

## Proxy  
ServerActive=IP\_OR\_VIP\_PROXY\_ZABBIX:10052  
Server=IP\_OR\_VIP\_PROXY\_ZABBIX

## Agent  
Hostname=lower\_case\_hostname\_without\_fqdn  
ListenIP=SERVER\_IP  
SourceIP=SERVER\_IP  
ListenPort=10050  
Timeout=3  
AllowRoot=0  
RefreshActiveChecks=120  
PidFile=/var/run/zabbix/zabbix\_agentd.pid  
LogFile=/var/log/zabbix/zabbix\_agentd.log  
LogFileSize=100  
DebugLevel=3

## Command behavior  
EnableRemoteCommands=1  
LogRemoteCommands=0  
StartAgents=3

## Host  
HostMetadata=Linux/server\_environment/CUSTOMER\_NAME\_UPPER\_CASE\_WHITHOUT\_BLANK

## Stream  
BufferSend=5  
BufferSize=100  
MaxLinesPerSecond=100

## Alias, modules and userparameters  
Include=/etc/zabbix/zabbix\_agentd.d/\*.conf  
UnsafeUserParameters=0  
LoadModulePath=${libdir}/modules

## Zabbix config file for Linux (AWS)

Location : /etc/zabbix/zabbix\_agentd.conf

## Proxy  
ServerActive=IP\_OR\_VIP\_PROXY\_ZABBIX:10052  
Server=IP\_OR\_VIP\_PROXY\_ZABBIX

## Agent  
Hostname=lower\_case\_hostname\_without\_fqdn  
ListenIP=SERVER\_IP  
SourceIP=SERVER\_IP  
ListenPort=10050  
Timeout=3  
AllowRoot=0  
RefreshActiveChecks=120  
PidFile=/var/run/zabbix/zabbix\_agentd.pid  
LogFile=/var/log/zabbix/zabbix\_agentd.log  
LogFileSize=100  
DebugLevel=3

## Command behavior  
EnableRemoteCommands=1  
LogRemoteCommands=0  
StartAgents=3

## Host   
HostMetadata=Linux/server\_environment/CUSTOMER\_NAME\_UPPER\_CASE\_WHITHOUT\_BLANK/AWS/ASG\_boolean/ASG\_NAME/SERVICE\_CLASS/REGION/APPLICATION

## Stream  
BufferSend=5  
BufferSize=100  
MaxLinesPerSecond=100

## Alias, modules and userparameters  
Include=/etc/zabbix/zabbix\_agentd.d/\*.conf  
UnsafeUserParameters=0  
LoadModulePath=${libdir}/modules

## Zabbix config file for Windows (on-premise)

Location : D:\zabbix\conf\zabbix\_agentd.win.conf (replace « D: » by « C: » if needed) :

## Proxy  
ServerActive=IP\_OR\_VIP\_PROXY\_ZABBIX:10052  
Server=IP\_OR\_VIP\_PROXY\_ZABBIX

## Agent  
Hostname=lower\_case\_hostname\_without\_fqdn   
ListenIP=SERVER\_IP  
SourceIP=SERVER\_IP  
ListenPort=10050  
Timeout=3  
RefreshActiveChecks=120  
LogFile=**D:**\zabbix\logs\zabbix\_agentd.log  
LogFileSize=100  
DebugLevel=3

## Command behavior  
EnableRemoteCommands=1  
LogRemoteCommands=0  
StartAgents=3

## Host   
HostMetadata=Windows/server\_environment/CUSTOMER\_NAME\_UPPER\_CASE\_WHITHOUT\_BLANK

## Stream  
BufferSend=5  
BufferSize=100  
MaxLinesPerSecond=100

## Alias, modules and userparameters  
Include=**D:**\zabbix\conf\zabbix\_agentd.conf.d\\*.conf  
UnsafeUserParameters=0

## Zabbix config file for Windows (AWS)

D:\zabbix\conf\zabbix\_agentd.win.conf (replace « D: » by « C: » if needed) :

## Proxy  
ServerActive=IP\_OR\_VIP\_PROXY\_ZABBIX:10052  
Server=IP\_OR\_VIP\_PROXY\_ZABBIX

## Agent  
Hostname=lower\_case\_hostname\_without\_fqdn   
ListenIP=SERVER\_IP  
SourceIP=SERVER\_IP  
ListenPort=10050  
Timeout=3  
RefreshActiveChecks=120  
LogFile=**D:**\zabbix\logs\zabbix\_agentd.log  
LogFileSize=100  
DebugLevel=3

## Command behavior  
EnableRemoteCommands=1  
LogRemoteCommands=0  
StartAgents=3

## Host   
HostMetadata=Windows/server\_environment/CUSTOMER\_NAME\_UPPER\_CASE\_WHITHOUT\_BLANK/AWS/ASG\_boolean/ASG\_NAME/SERVICE\_CLASS/REGION/APPLICATION

## Stream  
BufferSend=5  
BufferSize=100  
MaxLinesPerSecond=100

## Alias, modules and userparameters  
Include=**D:**\zabbix\conf\zabbix\_agentd.conf.d\\*.conf  
UnsafeUserParameters=0

## init.d file for CentOS / RedHat 4

/etc/init.d/zabbix-agent

#!/bin/sh

#

# chkconfig: - 86 14

# description: Zabbix agent daemon

# processname: zabbix\_agentd

# config: /etc/zabbix/conf/zabbix\_agentd.conf

#

### BEGIN INIT INFO

# Provides: zabbix-agent

# Required-Start: $local\_fs $network

# Required-Stop: $local\_fs $network

# Should-Start: zabbix zabbix-proxy

# Should-Stop: zabbix zabbix-proxy

# Default-Start:

# Default-Stop: 0 1 2 3 4 5 6

# Short-Description: Start and stop Zabbix agent

# Description: Zabbix agent

### END INIT INFO

# Source function library.

. /etc/rc.d/init.d/functions

if [ -x /etc/zabbix/sbin/zabbix\_agentd ]; then

exec=/etc/zabbix/sbin/zabbix\_agentd

else

exit 5

fi

prog=${exec##\*/}

conf=/etc/zabbix/conf/zabbix\_agentd.conf

pidfile=$(grep -e "^PidFile=.\*$" $conf | cut -d= -f2 | tr -d '\r')

timeout=10

if [ -f /etc/sysconfig/zabbix-agent ]; then

. /etc/sysconfig/zabbix-agent

fi

lockfile=/var/lock/subsys/zabbix-agent

start()

{

$exec -c $conf

rv=$?

if [ $rv -eq 0 ]

then

echo "Starting Zabbix agent: " $(echo\_success)

else

echo "Starting Zabbix agent: " $(echo\_failure)

fi

[ $rv -eq 0 ] && touch $lockfile

return $rv

}

stop()

{

mypid=$(ps -ef | grep -v grep | grep '/etc/zabbix/sbin/zabbix\_agentd -c /etc/zabbix/conf/zabbix\_agentd.conf' | tr -s ' ' | cut -d ' ' -f2)

kill $mypid

rv=$?

if [ $rv -eq 0 ]

then

echo "Shutting down Zabbix agent: " $(echo\_success)

else

echo "Shutting down Zabbix agent: " $(echo\_failure)

fi

[ $rv -eq 0 ] && rm -f $lockfile

return $rv

}

restart()

{

stop

start

}

case "$1" in

start|stop|restart)

$1

;;

force-reload)

restart

;;

status)

ps -ef | grep -v grep | grep -qc zabbix\_agentd

RETVAL=$?

if [ $RETVAL -eq 0 ]

then

echo "Service zabbix-agent: " $(echo\_success)

else

echo "Service zabbix-agent: " $(echo\_failure)

fi

;;

\*)

echo $"Usage: $0 {start|stop|status|restart|force-reload}"

exit 2

;;

esac

# Uninstallation commands

## Linux

Commands must be executed with **root** user.

### Debian

apt-get remove zabbix-sender zabbix-get zabbix-agent

### CentOS / RedHat

yum remove zabbix-sender zabbix-get zabbix-agent

### Ubuntu

apt-get remove zabbix-sender zabbix-get zabbix-agent

## Windows

Uninstallation must be done with an **administrator account**.

### 32 bits architecture

Open de DOS window with administrator rights and execute those following commands (replace « D: » by « C: » if needed) :

D:

D:\zabbix\bin\win32\zabbix\_agentd.exe -x

D:\zabbix\bin\win32\zabbix\_agentd.exe -d

Delete D:\zabbix directory.

### 64 bits architecture

Open de DOS window with administrator rights and execute those following commands (replace « D: » by « C: » if needed) :

D:

D:\zabbix\bin\win64\zabbix\_agentd.exe -x

D:\zabbix\bin\win64\zabbix\_agentd.exe -d

Delete D:\zabbix directory.

### Révisions

|  |  |  |
| --- | --- | --- |
| Version | Date | Objet |
| 1.0 | 15/09/2021 | Création of document |
| 1.1 | 27/09/2021 | New field in HostMetadata + Cloud |
|  |  |  |

### Visas

|  |  |  |  |
| --- | --- | --- | --- |
|  | Responsable | Date | Visas |
| Rédaction | Sophie Dupont | 15/09/2021 | SDU |
| Vérification |  |  |  |
| Approbation |  |  |  |

### Diffusion

|  |  |
| --- | --- |
| Entreprise | Destinataire |
| INETUM | Skill Center IS |
|  |  |
|  |  |