**Zabbix Documentation**

Main manual: <https://www.zabbix.com/documentation/current/manual>

Community site: You can find most public share templates in here. <https://share.zabbix.com/>. But most of them doesn’t work well. You need spend time to debug XML. I have created one specific for DELL NS model.

**Installation step:**

setenforce 0

# Modified secure linux file and change from enforce to disable

vi /etc/selinux/config

timedatectl set-timezone "America/Los\_Angeles"

dnf -y install @httpd

systemctl enable --now httpd

systemctl status httpd

dnf module -y install php:7.2

dnf -y install php php-pear php-cgi php-common php-mbstring php-snmp php-gd php-xml php-mysqlnd php-gettext php-bcmath php-json php-ldap

php -v

systemctl enable --now php-fpm

sed -i "s/^;date.timezone =$/date.timezone = \"America\/Los\_Angeles\"/" /etc/php.ini

systemctl restart httpd php-fpm

dnf -y update

dnf module install mariadb

systemctl enable --now mariadb

mysql\_secure\_installation

#mariadb root password: The@third@floor

mysql -u root -p

CREATE DATABASE zabbix;

GRANT ALL PRIVILEGES ON zabbix.\* TO zabbix@'localhost' IDENTIFIED BY 'The@third@floor';

FLUSH PRIVILEGES;

vi /etc/zabbix/zabbix\_server.conf

DBName=zabbix

DBUser=zabbix

DBPassword=The@third@floor

systemctl enable --now zabbix-server zabbix-agent

vi /etc/php.ini

memory\_limit 128M

upload\_max\_filesize 8M

post\_max\_size 16M

max\_execution\_time 300

max\_input\_time 300

max\_input\_vars 10000

firewall-cmd --add-service=http --permanent

firewall-cmd --add-port={10051,10050}/tcp --permanent

firewall-cmd --add-port={161,162}/tcp --permanent

firewall-cmd --add-port={161,162}/udp --permanent

firewall-cmd --reload

systemctl restart httpd php-fpm

zcat /usr/share/doc/zabbix-server-mysql\*/create.sql.gz | mysql -uzabbix -p zabbix

systemctl restart zabbix-server

**Key configuration files and log files:**

/etc/zabbix/zabbix\_server.conf

DBName=zabbix

DBUser=zabbix

DBPassword=The@third@floor

CacheSize=4096M

HistoryCacheSize=1024M

TrendCacheSize=1024M

ValueCacheSize=4096M

/var/log/zabbix/zabbix\_server.log

**Command list for troubleshooting:**

dnf install net-snmp-utils

# Use to test snmpv3 service in device

snmpwalk -v3 -u Zabbix-user -l AuthPriv -a SHA -A 3uHcUKNKYQuwW6K3 -x AES -X cRfUbbKFJA794aHL 10.10.0.253

# If you reconfigure the same device in Zabbix server, you need do the following

zabbix\_server -R snmp\_cache\_reload

systemctl restart zabbix-server.service

**Existing incident –**

Isilon SNMP service will turn red around one day. There is no more monitoring date after SNMP service turn. The quick fix is run ‘zabbix\_server -R snmp\_cache\_reload’ and Isilon SNMP service will turn back green.

Here is my resolution in below. I use CRON to schedule run ‘zabbix\_server -R snmp\_cache\_reload’ in every six hours.

#install crontabs

dnf install crontabs

#start and enable service

systemctl enable crond –now

#edit crond service

crontab –e

0 \*/6 \* \* \* /usr/sbin/zabbix\_server -R snmp\_cache\_reload

#check cron log

grep CRON /var/log/cron

May 26 12:00:01 ttf-lax-mon04 CROND[10737]: (root) CMD (/usr/sbin/zabbix\_server -R snmp\_cache\_reload)

May 26 12:00:01 ttf-lax-mon04 CROND[10724]: (root) CMDOUT (zabbix\_server [10737]: command sent successfully)