# Grafana部署Zabbix数据源(第二篇)

Zabbix是当前主流开源的企业级分布式监控系统。Zabbix特点是:安装部署较简单,且默认自带了多种监控告警模板。也具备较强的仪表盘展示功能;提供API接口,支持脚本调用;支持自定义编写插件以及监控模板。

# 一、安装zabbix软件包

确保防火墙、selinux已经关闭

- # systemctl stop Firewalld
- # systemctl disable Firewalld

# sed -i 's/SELINUX=enforcing/SELINUX=disabled/g' /etc/selinux/config

# setenforce 0

#### 修改用户资源限制

# cat /etc/security/limits.conf

root soft nofile 65535

root hard nofile 65535

- \* soft nproc 65535
- \* hard nproc 65535
- \* soft nofile 65535
- \* hard nofile 65535
- \* hard core unlimited
- \* soft core unlimited

### 安装zabbix yum源

# rpm -Uvh https://repo.zabbix.com/zabbix/4.4/rhel/7/x86\_64/zabbix-release-4.4-

 $1.el7. no arch.rpm < https://repo.zabbix.com/zabbix/4.4/rhel/7/x86\_64/zabbix-release-4.4-rhel/7/x86\_64/zabbix-4.4-rhel/7/x86/$ 

1.el7.noarch.rpm>

安装epel源,用于支持nginx

# yum install epel-release

安装zabbix相关软件包

# yum search zabbix

# yum -y install zabbix-\*

或者只安装以下组件

 $\overline{\uparrow}$ 

# for pkgs in zabbix-server-mysql zabbix-web-mysql zabbix-web-mysql zabbix-agent zabbix-get zabbix-web zabbix-sender zabbix-nginx-conf ;do yum -y install \$pkgs;done

zabbix-agent-4.4.7-1.el7.x86\_64
zabbix-get-4.4.7-1.el7.x86\_64
zabbix-release-4.4-1.el7.noarch
zabbix-server-mysql-4.4.7-1.el7.x86\_64
zabbix-web-4.4.7-1.el7.noarch
zabbix-sender-4.4.7-1.el7.x86\_64
zabbix-nginx-conf-4.4.7-1.el7.noarch
zabbix-web-mysql-4.4.7-1.el7.noarch

# 二、安装mariadb并初始化导入zabbix表结构数据

安装mariadb数据库并启动

- # yum -y install mariadb-\*
- # systemctl enable mariadb
- # systemctl start mariadb

#### 创建zabbix数据库

create database zabbix character set utf8 collate utf8\_bin; grant all privileges on zabbix.\* to 'zabbix'@'localhost' identified by 'zabbix@123'; flush privileges; quit;

#### 导入数据

# zcat /usr/share/doc/zabbix-server-mysql-\*/create.sql.gz |mysql -uzabbix -p'zabbix@123' -b zabbix

# 三、修改zabbix\_server.conf并启动zabbix\_server

# cat /etc/zabbix/zabbix\_server.conf |grep -v "^#" |grep -v "^\$" |grep -v grep

LogFile=/var/log/zabbix/zabbix\_server.log

LogFileSize=0

DebugLevel=3

PidFile=/var/run/zabbix/zabbix\_server.pid

SocketDir=/var/run/zabbix

DBName=zabbix

DBUser=zabbix



DBPassword=zabbix@123

StartPollers=16

StartPollersUnreachable=4

StartTrappers=10

StartPingers=8

SNMPTrapperFile=/var/log/snmptrap/snmptrap.log

CacheSize=1024M

StartDBSyncers=8

HistoryCacheSize=1024M

HistoryIndexCacheSize=256M

TrendCacheSize=1024M

Timeout=4

AlertScriptsPath=/usr/lib/zabbix/alertscripts

ExternalScripts=/usr/lib/zabbix/externalscripts

LogSlowQueries=3000

StatsAllowedIP=127.0.0.1

# systemctl enable zabbix-server

# systemctl start zabbix-server

# 四、修改nginx/php-fpm配置,将server端口配置为8080,端口配置没有特殊要求,只要未被占用都可配置。若想使用80端口,则需要注释或修改nginx.conf的server {}段配置

# vi /etc/nginx/conf.d/zabbix.conf

listen 8080:

server\_name monitor.com;

### 修改php时区

# vi /etc/php-fpm.d/zabbix.conf

php\_value[date.timezone] = Asia/Shanghai

# systemctl enable php-fpm

# systemctl restart php-fpm

# systemctl enable nginx

<u>†</u>

# systemctl start nginx

# 五、设置并登录zabbix系统

访问 http://IP:port/setup.php <http://IP:port/setup.php>



Welcome

Check of pre-requisites
Configure DB connection
Zabbix server details
Pre-installation summary

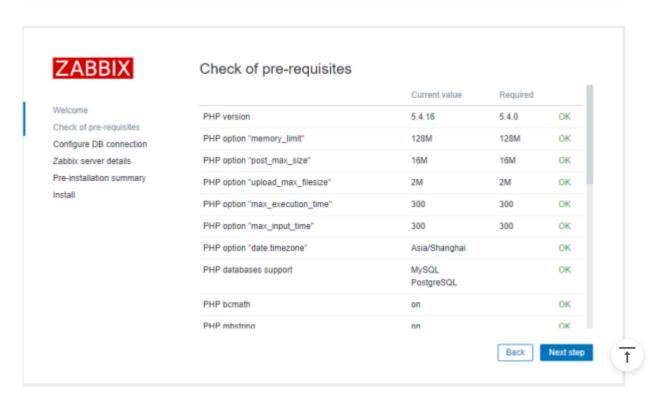
Welcome to

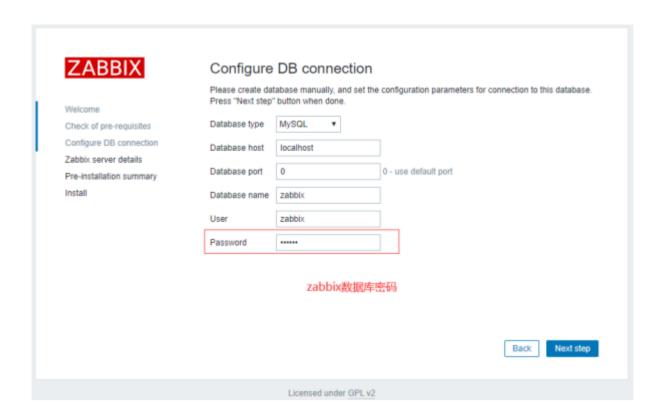
Zabbix 4.4

Back

Next step

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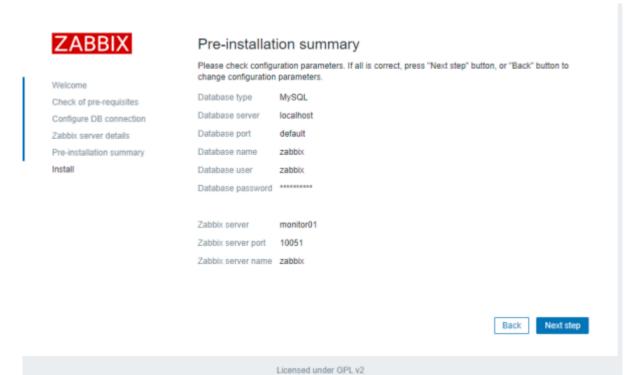


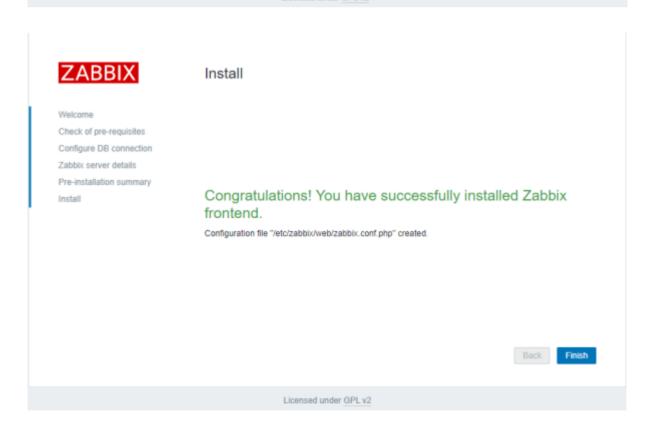


# Zabbix 服务名是可选设置



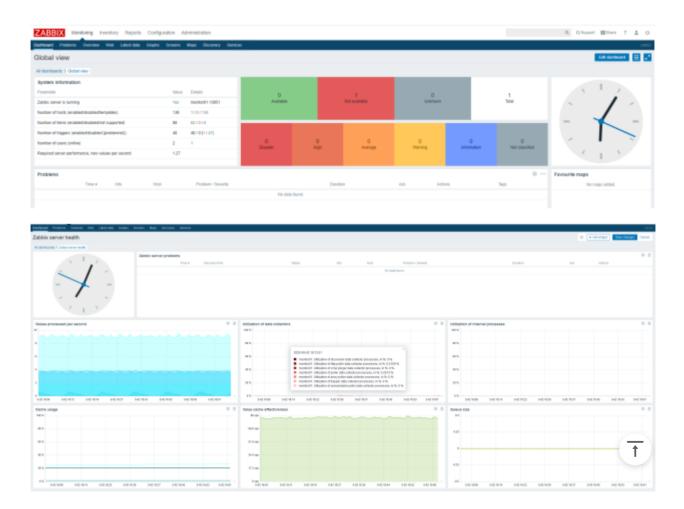
1





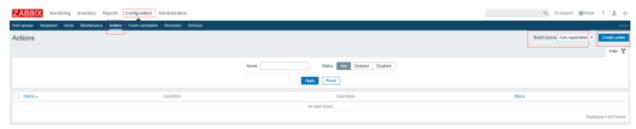
<u>†</u>



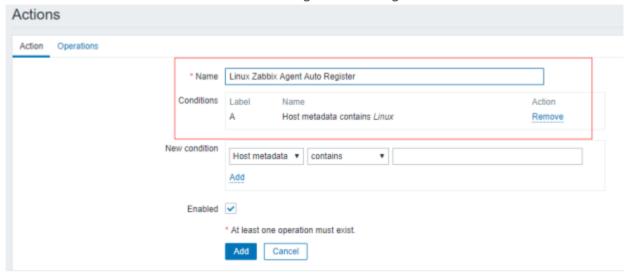


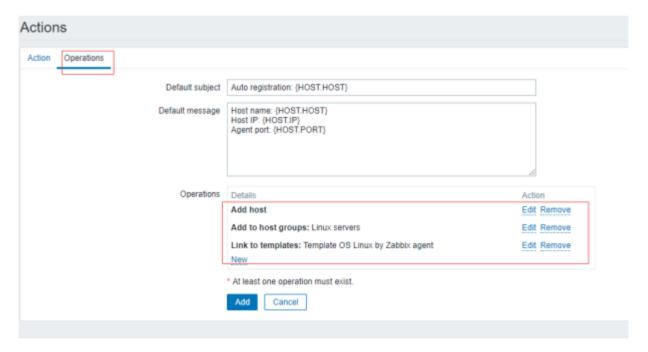
配置action, 实现使安装有Zabbix Agent的Linux自动注册到Zabbix Server端。

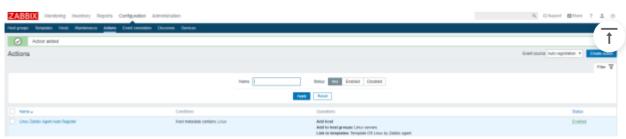
步骤: configuration>>action>>Event source (选择Auto registration) >>Create Action,我们按如下步骤来定义个action



action的名字可以自定义,如"Linux Zabbix Agent Auto Register"







## 六、安装zabbix-agent

# rpm -Uvh https://repo.zabbix.com/zabbix/4.4/rhel/7/x86\_64/zabbix-release-4.4-

1.el7.noarch.rpm <a href="https://repo.zabbix.com/zabbix/4.4/rhel/7/x86\_64/zabbix-release-4.4-">https://repo.zabbix.com/zabbix/4.4/rhel/7/x86\_64/zabbix-release-4.4-</a>

#### 1.el7.noarch.rpm>

# yum -y install zabbix-agent

修改zabbix-agent配置,monitor01为Zabbix Server主机的hostname,所有Zabbix agent主机上都要添加Zabbix Server主机的hostname。

# sed -i "s/Server=127.0.0.1/Server=monitor01/g" /etc/zabbix/zabbix\_agentd.conf

# sed -i "s/ServerActive=127.0.0.1/ServerActive=monitor01/g" /etc/zabbix/zabbix\_agentd.conf

# sed -i "s#Hostname=Zabbix server#Hostname=\$(hostname)#g"

/etc/zabbix/zabbix\_agentd.conf

# sed -i "s#\# HostMetadataItem=#HostMetadataItem=system.uname#g"

/etc/zabbix/zabbix\_agentd.conf

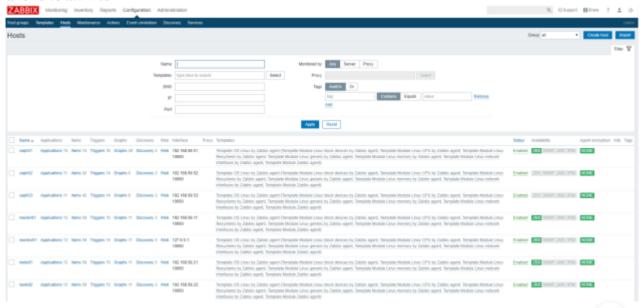
启动zabbix-agent

# systemctl enable zabbix-agent

# systemctl restart zabbix-agent

如果有几十上百个节点,我们就需要借助Ansible或SaltStack等批量部署工具来快速部署了。

安装Zabbix Agent后的主机会自动注册到Zabbix Server上,并且Availability显示为一绿色的 **ZIX** 就表示添加成功了。



由于本教程讲述的重点是Grafana的使用,Zabbix仅是为Grafana提供要展示数据的接口,所以不再重点讲述,后续在讲解Grafana使用时会再穿插讲解一些Zabbix使用技巧。