

31 Ansible安装zabbix

一、安装Zabbix-server

1.1 shell脚本

```

1  #! /bin/bash
2
3  # CentOS 7.9
4  # zabbix-server-mysql 5.0.31
5  # mariadb-server 5.5.68
6  # httpd 2.4.6
7
8  # 已构建本地yum源
9  # 防火墙已关闭
10 # selinux已关闭
11
12 # 基础配置, 可修改
13 # MySQL root密码
14 DB_ROOT_PASS=000000
15 # zabbix数据库密码
16 DB_ZABBIX_PASS=test
17 # 本机IP
18 LOCAL_IP=`ip add|grep global|awk -F'[ /]+' '{ print $3 }'|head -n 1`
19
20 # 安装Web容器
21 yum install httpd -q -y
22 systemctl start httpd
23 systemctl enable httpd >/dev/null 2>&1
24 echo "Web容器安装完成! "
25 # 安装数据库
26 yum install mariadb mariadb-server -q -y
27 systemctl start mariadb
28 systemctl enable mariadb >/dev/null 2>&1
29 echo "数据库安装完成! "
30 # 安装Zabbix Server和Zabbix Agent
31 yum install zabbix-server-mysql zabbix-agent -q -y --nogpgcheck >/dev/null 2>&1
32 # 安装Zabbix前端
33 yum install zabbix-web-mysql-scl zabbix-apache-conf-scl -q -y --nogpgcheck >/dev/null 2>&1
34 echo "Zabbix Server安装完成! "
35 # 修改PHP时区设置
36 sed -i "/^;/c php_value[date.timezone] = Asia/Shanghai" /etc/opt/rh/rh-php72/php-fpm.d/zabbix.conf
37 #sed -n "/php_value\[date\.timezone\]/p" /etc/opt/rh/rh-php72/php-fpm.d/zabbix.conf
38 # 初始化Zabbix数据库
39 yum install expect -q -y >/dev/null 2>&1
40 expect -c "
41 spawn mysql_secure_installation

```

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42 expect \"Enter current password for root (enter for none):\"
43 send \"\\r\\n\"
44 expect \"Set root password?\"
45 send \"y\\r\\n\"
46 expect \"New password:\"
47 send \"$DB_ROOT_PASS\\r\\n\"
48 expect \"Re-enter new password:\"
49 send \"$DB_ROOT_PASS\\r\\n\"
50 expect \"Remove anonymous users?\"
51 send \"y\\r\\n\"
52 expect \"Disallow root login remotely?\"
53 send \"n\\r\\n\"
54 expect \"Remove test database and access to it?\"
55 send \"y\\r\\n\"
56 expect \"Reload privilege tables now?\"
57 send \"y\\r\\n\"
58 expect eof
59 \" &>/dev/null
60 mysql -uroot -p$DB_ROOT_PASS -e 'create database zabbix character set utf
8 collate utf8_bin;'
61 mysql -uroot -p$DB_ROOT_PASS -e \"create user zabbix@localhost identified b
y '$DB_ZABBIX_PASS';\"
62 mysql -uroot -p$DB_ROOT_PASS -e 'grant all privileges on zabbix.* to zabb
i x@localhost;'
63 mysql -uroot -p$DB_ROOT_PASS -e 'flush privileges;'
64 # 导入数据
65 zcat /usr/share/doc/zabbix-server-mysql*/create.sql.gz | mysql -uzabbix -p
$DB_ZABBIX_PASS zabbix
66 # 修改Zabbix Server数据库配置
67 sed -i \"s/# DBPassword=/DBPassword=$DB_ZABBIX_PASS/\" /etc/zabbix/zabbix_se
rver.conf
68 #sed -n '/DBPassword=/p' /etc/zabbix/zabbix_server.conf
69 echo \"Zabbix Server初始化完成! \"
70 # 启动Zabbix服务
71 systemctl restart zabbix-server zabbix-agent httpd rh-php72-php-fpm
72 systemctl enable zabbix-server zabbix-agent httpd rh-php72-php-fpm >/dev/n
ull 2>&1
73 # 测试Web UI
74 ZABBIX_SERVER_URL=\"http://$LOCAL_IP/zabbix\"
75 curl $ZABBIX_SERVER_URL >/dev/null 2>&1
76 echo \"请访问 $ZABBIX_SERVER_URL 完成配置\"

```

1.2 ansible playbook

注意：省略了设置mariadb管理员密码

```
1 [root@shell ~]# vi zabbix-server.yml
2 ---
3 - name: 安装zabbix_server
4   hosts: test
5   vars:
6     DB_ROOT_PASS: 000000
7     DB_ZABBIX_PASS: test
8   tasks:
9     - name: install software
10      yum:
11        name: ['httpd','mariadb','mariadb-server','zabbix-server-mysql','z
12        abbx-agent','zabbix-web-mysql-scl','zabbix-apache-conf-scl']
13        state: present
14        disable_gpg_check: yes
15      - name: start software
16        service:
17          name: "{{ item }}"
18          state: started
19          enabled: yes
20          with_items:
21            - 'httpd'
22            - 'mariadb'
23      - name: set php
24        shell: echo "php_value[date.timezone] = Asia/Shanghai" >> /etc/opt/r
25        h/rh-php72/php-fpm.d/zabbix.conf
26      - name: create zabbix database
27        shell: mysql -e 'create database zabbix character set utf8 collate u
28        tf8_bin;'
29      - name: create zabbix database user
30        shell: mysql -e "create user zabbix@localhost identified by '{{DB_ZA
31        BBIX_PASS}}';"
32      - name: grant database privileges
33        shell: mysql -e 'grant all privileges on zabbix.* to zabbix@localhos
34        t;'
35      - name: flush privileges
36        shell: mysql -e 'flush privileges;'
37      - name: restore database
38        shell: zcat /usr/share/doc/zabbix-server-mysql*/create.sql.gz | mysq
39        l -uzabbix -p{{DB_ZABBIX_PASS}} zabbix
40      - name: modify zabbix server database password
41        lineinfile:
42          dest: /etc/zabbix/zabbix_server.conf
43          regexp: 'DBPassword='
44          line: 'DBPassword={{DB_ZABBIX_PASS}}'
45      - name: restart software
```

```
40     service:
41         name: "{{ item }}"
42         state: restarted
43         enabled: yes
44     with_items:
45         - 'zabbix-server'
46         - 'zabbix-agent'
47         - 'httpd'
48         - 'rh-php72-php-fpm'
49 # 验证playbook
50 [root@shell ~]# ansible-playbook zabbix-server.yml -C
51 # 运行playbook
52 [root@shell ~]# ansible-playbook zabbix-server.yml
```

二、安装Zabbix-agent

2.1 shell脚本

```
1  #! /bin/bash
2
3  # CentOS 7.9
4  # zabbix-agent 5.0.31
5
6  # 已构建本地yum源
7  # 防火墙已关闭
8  # selinux已关闭
9
10 # 基础配置, 可修改
11 # Zabbix Server IP
12 ZABBIX_SERVER=192.168.149.4
13 # 本地IP
14 LOCAL_IP=`ip add|grep global|awk -F'[ /]+' '{ print $3 }'|head -n 1`
15
16 # 安装zabbix-agent
17 yum install zabbix-agent -q -y
18
19 # 修改Zabbix Server数据库配置
20 sed -i "s/Server=127.0.0.1/Server=$ZABBIX_SERVER/" /etc/zabbix/zabbix_agentd.conf
21 sed -n '/Server=/p' /etc/zabbix/zabbix_agentd.conf
22 # 修改Zabbix Server数据库配置
23 sed -i "s/ServerActive=127.0.0.1/ServerActive=$ZABBIX_SERVER/" /etc/zabbix/zabbix_agentd.conf
24 sed -n '/ServerActive=/p' /etc/zabbix/zabbix_agentd.conf
25 # 修改Zabbix Server数据库配置
26 sed -i "s/Hostname=Zabbix server/Hostname=$LOCAL_IP/" /etc/zabbix/zabbix_agentd.conf
27 sed -n '/Hostname=/p' /etc/zabbix/zabbix_agentd.conf
28
29 # 启动zabbix-agent服务
30 systemctl start zabbix-agent
31 systemctl enable zabbix-agent >/dev/null 2>&1
32 echo "Zabbix Agent初始化完成!"
```

2.2 ansible playbook

```
1 ▾ [root@shell ~]# vi zabbix-agent.yml
2   - name: 安装zabbix_agent
3     hosts: test
4     vars:
5       zabbix_server_ip: 192.168.149.3
6 ▾   zabbix_agent_ip: "{{ansible_default_ipv4.address}}"
7   tasks:
8     - name: Install zabbix agent
9       yum:
10        name: zabbix-agent
11        state: present
12    - name: modify zabbix server ip address
13      lineinfile:
14        dest: /etc/zabbix/zabbix_agentd.conf
15        regexp: "Server=127.0.0.1"
16 ▾       line: "Server={{zabbix_server_ip}}"
17    - name: modify zabbix server active ip addr
18      lineinfile:
19        dest: /etc/zabbix/zabbix_agentd.conf
20        regexp: "ServerActive=127.0.0.1"
21 ▾       line: "ServerActive={{zabbix_server_ip}}"
22    - name: modify zabbix agent hostname
23      lineinfile:
24        dest: /etc/zabbix/zabbix_agentd.conf
25        regexp: "Hostname=Zabbix server"
26 ▾       line: "Hostname={{zabbix_agent_ip}}"
27    - name: enable zabbix-agent
28      service:
29        name: zabbix-agent
30        state: started
31        enabled: yes
32  # 验证playbook
33 ▾ [root@shell ~]# ansible-playbook zabbix-agent.yml -C
34  # 运行playbook
35 ▾ [root@shell ~]# ansible-playbook zabbix-agent.yml
36  # 验证
37 ▾ [root@shell ~]# ansible test -m command -a "systemctl status zabbix-agent"
38 192.168.149.3 | CHANGED | rc=0 >>
39 ● zabbix-agent.service - Zabbix Agent
40    Loaded: loaded (/usr/lib/systemd/system/zabbix-agent.service; enabled;
41    vendor preset: disabled)
42    Active: active (running) since Thu 2023-06-01 10:11:07 CST; 1min 36s ago
43    Process: 4472 ExecStart=/usr/sbin/zabbix_agentd -c $CONFFILE (code=exited, status=0/SUCCESS)
```

```
43 Main PID: 4474 (zabbix_agentd)
44 CGroup: /system.slice/zabbix-agent.service
45     └─4474 /usr/sbin/zabbix_agentd -c /etc/zabbix/zabbix_agentd.conf
46 f
47     └─4475 /usr/sbin/zabbix_agentd: collector [idle 1 sec]
48     └─4476 /usr/sbin/zabbix_agentd: listener #1 [waiting for connection]
49     └─4477 /usr/sbin/zabbix_agentd: listener #2 [waiting for connection]
50     └─4478 /usr/sbin/zabbix_agentd: listener #3 [waiting for connection]
51     └─4479 /usr/sbin/zabbix_agentd: active checks #1 [idle 1 sec]
52 Jun 01 10:11:07 shell systemd[1]: Starting Zabbix Agent...
53 Jun 01 10:11:07 shell systemd[1]: Started Zabbix Agent.
54
```



```
1 [root@shell ~]# vi zabbix-agent.yml
2 - name: 安装zabbix_agent
3   hosts: test
4   vars:
5     zabbix_server_ip: 192.168.149.3
6     zabbix_agent_ip: "{{ansible_default_ipv4.address}}"
7   tasks:
8     - name: Install zabbix agent
9       yum:
10         name: zabbix-agent
11         state: present
12     - name: modify zabbix server ip address
13       lineinfile:
14         dest: /etc/zabbix/zabbix_agentd.conf
15         regexp: "Server=127.0.0.1"
16         line: "Server={{zabbix_server_ip}}"
17     - name: modify zabbix server active ip addr
18       lineinfile:
19         dest: /etc/zabbix/zabbix_agentd.conf
20         regexp: "ServerActive=127.0.0.1"
21         line: "ServerActive={{zabbix_server_ip}}"
22     - name: modify zabbix agent hostname
23       lineinfile:
24         dest: /etc/zabbix/zabbix_agentd.conf
25         regexp: "Hostname=Zabbix server"
26         line: "Hostname={{zabbix_agent_ip}}"
27       notify:
28         - enable zabbix-agent
29   handlers:
30     - name: enable zabbix-agent
31       service:
32         name: zabbix-agent
33         state: started
34         enabled: yes
```