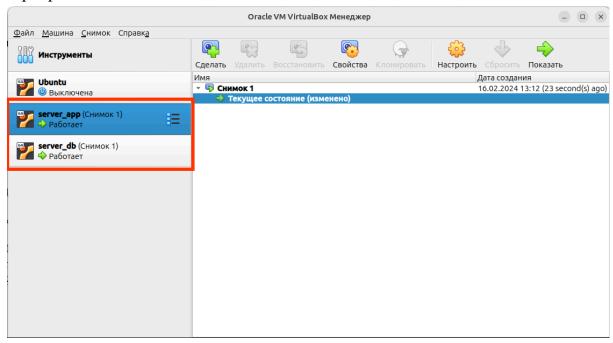
Отчет выполненной работы

Инструменты: VirtualBox, Ubuntu Server, PostgreSQL

Задание:

1) Развернул две виртуальные машины с ОС Linux."app" и "db" сервер



• Сервер арр с двумя интерфейсами

• Сервер db с одним интерфейсом

• арр и db видят друг друга по второму сетевому интерфейсу 192.168.100.0/*

```
amingaleev@app:~$ ping 192.168.100.2
PING 192.168.100.2 (192.168.100.2) 56(84) bytes of data.
64 bytes from 192.168.100.2: icmp seg=1 ttl=64 time=0.760 ms
64 bytes from 192.168.100.2: icmp_seq=2 ttl=64 time=1.57 ms
64 bytes from 192.168.100.2: icmp seq=3 ttl=64 time=1.59 ms
64 bytes from 192.168.100.2: icmp_seq=4 ttl=64 time=1.88 ms
64 bytes from 192.168.100.2: icmp seq=5 ttl=64 time=1.38 ms
^C
--- 192.168.100.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4029ms
rtt min/avg/max/mdev = 0.760/1.437/1.880/0.374 ms
amingaleev@db:~$ ping 192.168.100.1
PING 192.168.100.1 (192.168.100.1) 56(84) bytes of data.
64 bytes from 192.168.100.1: icmp_seq=1 ttl=64 time=0.757 ms
64 bytes from 192.168.100.1: icmp seg=2 ttl=64 time=1.81 ms
64 bytes from 192.168.100.1: icmp_seq=3 ttl=64 time=1.55 ms
64 bytes from 192.168.100.1: icmp seq=4 ttl=64 time=1.27 ms
64 bytes from 192.168.100.1: icmp_seq=5 ttl=64 time=1.31 ms
64 bytes from 192.168.100.1: icmp_seq=6 ttl=64 time=1.69 ms
^C
--- 192.168.100.1 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5006ms
rtt min/avg/max/mdev = 0.757/1.396/1.808/0.344 ms
```

2) Docker-compose c zabbix-server и nginx в docker-compose.yml. Данные по подключению к DB указаны в .env. Оба файла приложены.

```
amingaleev@app:/var/lib/zabbix$ ll
total 24
drwxr-xr-x 3 root root 4096 фев 16 08:34 ./
drwxr-xr-x 45 root root 4096 фев 13 15:53 ../
drwxr-xr-x 2 root root 4096 фев 13 15:54 alertscripts/
-rw-r--r-- 1 root root 1671 фев 16 08:32 docker-compose.yml
-rw----- 1 root root 334 фев 16 08:06 .env
```

Zabbix сервер запускается вместе с сервером арр.

```
amingaleev@app:/etc/systemd/system$ cat docker-compose.service
[Unit]
Description=Docker Compose Service
Requires=docker.service
After=docker.service

[Service]
Type=oneshot
RemainAfterExit=yes
WorkingDirectory=/var/lib/zabbix/
ExecStart=docker-compose up -d
ExecStop=docker-compose down

[Install]
WantedBy=multi-user.target
```

3) На сервере db развернул PostgreSQL

```
amingaleev@db:~$ systemctl status postgresql*
postgresql.service - PostgreSQL RDBMS
     Loaded: loaded (/lib/systemd/system/postgresgl.service; enabled; vendor pre
     Active: active (exited) since Fri 2024-02-16 08:07:24 UTC; 2h 36min ago
    Process: 1628 ExecStart=/bin/true (code=exited, status=0/SUCCESS)
  Main PID: 1628 (code=exited, status=0/SUCCESS)
        CPU: 650us
фев 16 08:07:24 db systemd[1]: Starting PostgreSQL RDBMS...
фев 16 08:07:24 db systemd[1]: Finished PostgreSQL RDBMS.
postgresql@14-main.service - PostgreSQL Cluster 14-main
     Loaded: loaded (/lib/systemd/system/postgresql@.service; enabled-runtime; v
     Active: active (running) since Fri 2024-02-16 08:07:24 UTC; 2h 36min ago
    Process: 1605 ExecStart=/usr/bin/pg ctlcluster --skip-systemctl-redirect 14-
  Main PID: 1610 (postgres)
      Tasks: 35 (limit: 2220)
     Memory: 191.2M
        CPU: 2min 34.438s
     CGroup: /system.slice/system-postgresql.slice/postgresql@14-main.service
              —1610 /usr/lib/postgresql/14/bin/postgres -D /var/lib/postgresql/1
—1612 "postgres: 14/main: checkpointer " "" "" "" "" "" "" "" ""
```

• Изменил стандартный порт на 12345

• Настроил подключение к серверу db только с сервера арр

```
amingaleev@db:~$ sudo iptables -L -nv
Chain INPUT (policy DROP 21 packets,
                           prot opt in
                                                                                  destination
 pkts bytes target
                            all --
                                                                                  0.0.0.0/0
 629K 85M ACCEPT
                                                         0.0.0.0/0
                                                                                                            state RELATED.ESTABLISHED
                                                         192.168.100.1
 373 22380 ACCEPT
                            all
                                                                                  0.0.0.0/0
Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
                                                                                  destination
pkts bytes target
                           prot opt in
                                              out
                                                         SOURCE
Chain OUTPUT (policy ACCEPT 805K packets, 1529M bytes)
pkts bytes target prot opt in out source
pkts bytes target
                                                                                  destination
```

4) Настроить Zabbix agent на обоих VM

app

```
amingaleev@app:~$ systemctl status zabbix-agent.service
zabbix-agent.service - Zabbix Agent
      Loaded: loaded (/lib/systemd/system/zabbix-agent.service; enabled; vendor preset: enabled)
      Active: active (running) since Fri 2024-02-16 08:37:12 UTC; 2h 27min ago
        Docs: man:zabbix_agentd
   Main PID: 661 (zabbix_agentd)
       Tasks: 7 (limit: 2221)
      Memory: 6.6M
          CPU: 14.804s
     CGroup: /system.slice/zabbix-agent.service
—661 /usr/sbin/zabbix_agentd --foreground
                  —698 "/usr/sbin/zabbix_agentd: collector [idle 1 sec]"
—699 "/usr/sbin/zabbix_agentd: listener #1 [waiting for connection]"
—700 "/usr/sbin/zabbix_agentd: listener #2 [waiting for connection]"
                 -700 /usr/sbin/zabbix_agentd: tistener #2 [watting for connection]"
-701 "/usr/sbin/zabbix_agentd: listener #3 [waiting for connection]"
-702 "/usr/sbin/zabbix_agentd: active checks #1 [idle 1 sec]"
-706 "/usr/sbin/zabbix_agentd: active checks #2 [idle 1 sec]"
фев 16 08:37:12 app zabbix_agentd[661]: Starting Zabbix Agent [app]. Zabbix 5.0.17 (revision 0a4ac3dabc).
фев 16 08:37:12 app zabbix_agentd[661]: Press Ctrl+C to exit.
фев 16 08:37:12 app systemd[1]: Started Zabbix Agent.
amingaleev@app:~$
amingaleev@app:/etc/zabbix$ cat zabbix_agentd.conf | grep -E '^Server|^Host'
          =192.168.0.107,172.25.0.11
          Active=192.168.0.107.172.25.0.11
      name=app
amingaleev@app:/etc/zabbix$
```

• db

```
amingaleev@db:~$ systemctl status zabbix-agent.service
zabbix-agent.service - Zabbix Agent
      Loaded: loaded (/lib/systemd/system/zabbix-agent.service; enabled; vendor preset: enabled)
      Active: active (running) since Fri 2024-02-16 08:56:39 UTC; 2h 7min ago
        Docs: man:zabbix_agentd
   Main PID: 3548 (zabbix_agentd)
       Tasks: 6 (limit: 2220)
      Memory: 3.3M
         CPU: 11.255s
      CGroup: /system.slice/zabbix-agent.service
                 —3548 /usr/sbin/zabbix_agentd --foreground
—3549 "/usr/sbin/zabbix_agentd: collector
                 -3549 "/usr/sbin/zabbix_agentd: collector [idle 1 sec]"
-3550 "/usr/sbin/zabbix_agentd: listener #1 [waiting for connection]"
                 -3551 "/usr/sbin/zabbix_agentd: listener #2 [waiting for connection]"
-3552 "/usr/sbin/zabbix_agentd: listener #3 [waiting for connection]"
                3553 "/usr/sbin/zabbix_agentd: active checks #1 [idle 1 sec]"
фев 16 08:56:39 db systemd[1]: zabbix-agent.service: Deactivated successfully.
фев 16 08:56:39 db systemd[1]: Stopped Zabbix Agent.
фев 16 08:56:39 db systemd[1]: Started Zabbix Agent.
фев 16 08:56:39 db zabbix_agentd[3548]: Starting Zabbix Agent [db]. Zabbix 5.0.17 (revision 0a4ac3dabc).
фев 16 08:56:39 db zabbix_agentd[3548]: Press Ctrl+C to exit.
```

```
amingaleev@db:/etc/zabbix$ cat zabbix_agentd.conf | grep -E '^Server|^Host'
Server=192.168.100.1
ServerActive=127.0.0.1
Hostname=db
```

Результат: Хост арр и db находится под мониторингом zabbix, доступны их метрики.

