01.Prometheus监控服务器配置二(系...

一、修改主机名"hostname"和/etc/hosts配置

```
hostnamectl set-hostname it5-prometheus-monitor

LIP=`hostname -I|awk '{print $1}'`
HN=`hostname`

cp /etc/hosts{,.bak}
echo "$LIP $HN" >>/etc/hosts
```

```
*** O | root@ansible-service/home... *** O | 2 root@it5-prometheus-ser... ** +

[root@it5-prometheus-server centos]# hostnamectl set-hostname it5-prometheus-monitor [root@it5-prometheus-server centos]# | IP=`hostname -I | awk ' { print $1 } ' ` [root@it5-prometheus-server centos]# | HN=`hostname' | O1.配置本部host信息 | IF | Toot@it5-prometheus-server centos]# | IF | SHN" | SHN" | SHOOT@it5-prometheus-server centos]# | IF | SHN" | SHOOT@it5-prometheus-server centos]# | Cot@it5-prometheus-server centos]# | Cot@it5-prometheus-monitor | Cot@it5-prometheus-server centos]# | Cot@it5-prometheus-server cento
```

二、CentOS系统参数优化

1.调整同时打开文件数量

```
cp /etc/security/limits.conf{,.bak}
cat >> /etc/security/limits.conf<<EOF</pre>
*
         soft
                 nproc 65535
         hard
              nproc 65535
         soft nofile 65535
         hard
              nofile 65535
EOF
cp /etc/security/limits.d/20-nproc.conf{,.bak}
cat >> /etc/security/limits.d/20-nproc.conf<<EOF</pre>
           soft
                  nproc
                          65535
*
           hard
                 nproc
                          65535
           soft
root
                 nproc 65535
          hard
                          65535
root
                  nproc
EOF
ulimit -a
ulimit -n
```

```
图口(W) 新期(H)

    1 root@ansible-service:/home...

                         2 root@it5-prometheus-ser...
 [root@it5-prometheus-server centos]# ulimit -a
 core file size
                          (blocks, -c) 0
 data seg size
                          (kbytes, -d) unlimited
 scheduling priority
                                  (-e) 0
 file size
                          (blocks, -f) unlimited
 pending signals
                                  (-i) 59321
 max locked memory
                          (kbytes, -l) 64
 max memory size
                          (kbytes, -m) unlimited
 open files
                                  (-n) 65535
                                              ◆ 01.最大文件打开数
 pipe size
                       (512 bytes, -p) 8
 POSIX message queues
                           (bytes, -q) 819200
 real-time priority
                                  (-r) 0
 stack size
                          (kbytes, -s) 8192
                         (seconds, -t) unlimited
 cpu time
 max user processes
                                  (-u) 65535
                                                       02.最大打开进程
                          (kbytes, -v) unlimited
 virtual memory
 file locks
                                  (-x) unlimited
 [root@it5-prometheus-server centos]# ulimit -n
 65535
 [root@it5-prometheus-server centos]#
```

2.TCP最大连接数 (somaxconn)

echo 10000 > /proc/sys/net/core/somaxconn

3.TCP连接立即回收、回用 (recycle、reuse)

```
echo 1 > /proc/sys/net/ipv4/tcp_tw_reuse
echo 1 > /proc/sys/net/ipv4/tcp tw recycle
```

4.不做TCP洪水抵御

echo 0 > /proc/sys/net/ipv4/tcp syncookies



5.系统内核优化参数配置

```
cp /etc/sysctl.conf{,.bak}
cat >>/etc/sysctl.conf<<EOF</pre>
net.core.somaxconn = 20480
net.core.rmem default = 262144
net.core.wmem default = 262144
net.core.rmem max = 16777216
net.core.wmem max = 16777216
net.ipv4.tcp rmem = 4096 4096 16777216
net.ipv4.tcp wmem = 4096 4096 16777216
net.ipv4.tcp mem = 786432 2097152 3145728
net.ipv4.tcp max syn backlog = 16384
net.core.netdev max backlog = 20000
net.ipv4.tcp fin timeout = 15
net.ipv4.tcp max syn backlog = 16384
net.ipv4.tcp tw reuse = 1
net.ipv4.tcp tw recycle = 1
net.ipv4.tcp max orphans = 131072
net.ipv4.tcp syncookies = 0
FOF
sysctl -p
```

```
• 1root@it5-prometheus-server centos]# cp /etc/sysctl.conf{,.bak}
```

```
net.core.somaxconn = 20480
> net.core.rmem default = 262144
> net.core.wmem default = 262144
> net.core.rmem_max = 16777216
> net.core.wmem max = 16777216
> net.ipv4.tcp rmem = 4096 4096 16777216
> net.ipv4.tcp wmem = 4096 4096 16777216
> net.ipv4.tcp mem = 786432 2097152 3145728
> net.ipv4.tcp max syn backlog = 16384
> net.core.netdev max backlog = 20000
> net.ipv4.tcp fin timeout = 15
> net.ipv4.tcp max syn backlog = 16384
> net.ipv4.tcp tw reuse = 1
> net.ipv4.tcp tw recycle = 1
> net.ipv4.tcp max orphans = 131072
> net.ipv4.tcp syncookies = 0
> E0F
[root@it5-prometheus-server centos]# sysctl -p 02.执行命令让内核优化及时生
net.core.somaxconn = 20480
net.core.rmem default = 262144
net.core.wmem_default = 262144
net.core.rmem max = 16777216
net.core.wmem max = 16777216
net.ipv4.tcp rmem = 4096 4096 16777216
net.ipv4.tcp wmem = 4096 4096 16777216
net.ipv4.tcp mem = 786432 2097152 3145728
net.ipv4.tcp max syn backlog = 16384
net.core.netdev max backlog = 20000
net.ipv4.tcp fin timeout = 15
net.ipv4.tcp max syn backlog = 16384
net.ipv4.tcp tw reuse = 1
net.ipv4.tcp tw recycle = 1
net.ipv4.tcp max orphans = 131072
net.ipv4.tcp syncookies = 0
[root@it5-prometheus-server centos]#
```

6.重启系统

reboot

三、系统初始rpm依赖包安装

yum install gcc gcc-c++ perl dos2unix wget git unzip vim telnet epel-release -y

四、关闭centos7系统的 firewall和selinux

```
systemctl stop firewalld.service
systemctl disable firewalld.service
```

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

五、服务器时间ntp更新同步

```
mv /etc/localtime{,.bak}
cp /usr/share/zoneinfo/Asia/Shanghai /etc/localtime
```

yum install chrony -y systemctl enable chronyd.service && systemctl start chronyd.service && systemctl sta tus chronyd.service chronyc sources

```
面口(W) 书即(H)

    1 root@ansible-service:/home...

                       2 root@it5-prometheus-ser...
 [root@it5-prometheus-server centos]# cp /usr/share/zoneinfo/Asia/Shanghai /etc/localtime
 [root@it5-prometheus-server centos]# yum install chrony -y
  Loaded plugins: fastestmirror
  Loading mirror speeds from cached hostfile
  epel/x86 64/metalink
                                                                                                                                       | 7.0 kB 00:00:00
  * base: mirrors.hosting.in.th
  * epel: d2lzkl7pfhq30w.cloudfront.net
  * extras: mirror.0x.sg
  * updates: mirror.0x.sg
                                                                                                                                         3.6 kB 00:00:00
 base
 docker-ce-stable
                                                                                                                                         3.5 kB 00:00:00
  epel
                                                                                                                                         5.4 kB 00:00:00
  extras
                                                                                                                                         3.4 kB 00:00:00
  updates
                                                                                                                                         3.4 kB 00:00:00
  (1/2): epel/x86 64/updateinfo
                                                                                                                                         996 kB 00:00:00
  (2/2): epel/x86 64/primary db
                                                                                                                                         6.8 MB 00:00:00
  Package chrony-3.2-2.el7.x86 64 already installed and latest version
  Nothing to do
  [root@it5-prometheus-server centos]# systemctl enable chronyd.service && systemctl start chronyd.service && systemctl status chronyd.service
 chronyd.service - NTP client/server
    Loaded: loaded (/usr/lib/systemd/system/chronyd.service; enabled; vendor preset: enabled)
    Active: active (running) since Fri 2019-08-02 15:17:48 CST; 3 days ago
      Docs: man:chronvd(8)
            man:chrony.conf(5)
   Main PID: 1094 (chronyd)
    CGroup: /system.slice/chronyd.service
            └1094 /usr/sbin/chronyd
  Aug 02 15:17:48 it5-prometheus-server systemd[1]: Starting NTP client/server...
  Aug 02 15:17:48 it5-prometheus-server chronyd[1094]: chronyd version 3.2 starting (+CMDMON +NTP +REFCLOCK +RTC +PRIVDROP +SCFILTER +SECHASH +SIGND... +DEBUG)
 Aug 02 15:17:48 it5-prometheus-server chronyd[1094]: Frequency -27.232 +/- 0.624 ppm read from /var/lib/chrony/drift
 Aug 02 15:17:48 it5-prometheus-server systemd[1]: Started NTP client/server.
 Aug 02 15:18:21 it5-prometheus-server chronyd[1094]: Selected source 209.97.168.88
 Hint: Some lines were ellipsized, use -l to show in full.
 [root@it5-prometheus-server centos]# chronyc sources
 210 Number of sources = 4
 MS Name/IP address
                            Stratum Poll Reach LastRx Last sample
   * b.sin.pobot.net
                                  2 10 377
                                                229 -157us[ -232us +/- 1960us
   nets.org.sg
                                  1 10 377
                                                901 +1534us[+1462us] +/- 12ms
    pontoon.latt.net
                                  3 10 375
                                               348 +218ns[ -74us] +/- 98ms
```

六、docker-ce服务安装配置

```
yum update -y
yum install python-pip -y
pip install docker-compose
yum install -y yum-utils device-mapper-persistent-data lvm2
yum install awscli -y
yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.r
epo
yum makecache fast
yum list docker-ce --showduplicates/sort -r
yum install docker-ce-18.09.7-3.el7 -y
sudo usermod -aG docker $(whoami)
sed -i 's#ExecStart=/usr/bin/dockerd -H fd://#ExecStart=/usr/bin/dockerd -H tcp://
0.0.0.0:2375 --insecure-registry=registry-1.docker.io --insecure-registry=10.2.10.
205:7149 -H unix://var/run/docker.sock#g' /usr/lib/system/docker.service
systemctl daemon-reload
suctioned | nortant doction 00 suctioned analysis doction
```

```
2 root@it5-prometheus-ser... ×

    1 root@ansible-service:/home... ×

[root@it5-prometheus-server centos]# yum list docker-ce --showduplicates|sort -r
 * updates: mirror.0x.sg
Loading mirror speeds from cached hostfile
Loaded plugins: fastestmirror
Installed Packages
 * extras: mirror.0x.sq
 * epel: d2lzkl7pfhq30w.cloudfront.net
docker-ce.x86 64
                            3:19.03.1-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            3:19.03.0-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            3:18.09.8-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            3:18.09.7-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                                                                @docker-ce-stable
                            3:18.09.7-3.el7
docker-ce.x86 64
                            3:18.09.6-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            3:18.09.5-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            3:18.09.4-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            3:18.09.3-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                                                                docker-ce-stable
                            3:18.09.2-3.el7
docker-ce.x86 64
                            3:18.09.1-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            3:18.09.0-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            18.06.3.ce-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            18.06.2.ce-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            18.06.1.ce-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            18.06.0.ce-3.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            18.03.1.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            18.03.0.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            17.12.1.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            17.12.0.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            17.09.1.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            17.09.0.ce-1.el7.centos
                                                                docker-ce-stable
                            17.06.2.ce-1.el7.centos
docker-ce.x86 64
                                                                docker-ce-stable
docker-ce.x86 64
                            17.06.1.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            17.06.0.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            17.03.3.ce-1.el7
                                                                docker-ce-stable
docker-ce.x86 64
                            17.03.2.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            17.03.1.ce-1.el7.centos
                                                                docker-ce-stable
docker-ce.x86 64
                            17.03.0.ce-1.el7.centos
                                                                docker-ce-stable
 * base: mirrors.hosting.in.th
```

