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Firewall systemd

Algunos apuntes sobre como usar el firewall de systemd.

Deshabilitarlo

```
# systemctl disable firewalld
# systemctl stop firewalld
```

Habilitarlo

```
# systemctl enable firewalld
# systemctl start firewalld
```

Show rules

```
firewall-cmd --list-all # Default zone
firewall-cmd --list-all-zones # List all zones
```

Open ports

```
firewall-cmd --permanent --add-port=3306/tcp
```

Usar iptables

```
# systemctl disable firewalld
# systemctl stop firewalld
# yum install iptables-services
# systemctl start iptables
# systemctl start ip6tables
# systemctl enable iptables
# systemctl enable ip6tables
```

Validar el estado del servicio

```
sudo systemctl status firewalld
```

Obtain all open ports with netstat

- TCP:

```
sudo netstat -tupln | grep LISTEN | grep -v tcp6 | awk "{print \$4}" | awk -F: "{print \$2}" | sort | uniq > /home/emonge/testportstcp
sudo netstat -tupln | grep LISTEN | grep tcp6 | awk "{print \$4}" | grep ">:::" | awk -F: "{print \$4}" | sort | uniq >> /home/emonge/testportstcp
sudo netstat -tupln | grep LISTEN | grep tcp6 | awk "{print \$4}" | grep ">::1:" | awk -F: "{print \$4}" | sort | uniq >> /home/emonge/testportstcp
sudo netstat -tupln | grep LISTEN | grep tcp6 | awk "{print \$4}" | grep -v ">::1:" | grep -v ">:::" | awk -F: "{print \$6}" | sort | uniq >> /home/emonge/testportstcp
sudo netstat -tupln | grep LISTEN | grep tcp6 | awk "{print \$4}" | grep "\." | awk -F: "{print \$2}" | sort | uniq >> /home/emonge/testportstcp
sudo cat /home/emonge/testportstcp | sort | uniq
```

- UDP

```
sudo netstat -tupln | grep LISTEN | grep -v udp6 | awk "{print \$4}" | awk -F: "{print \$2}" | sort | uniq > /home/emonge/testportsudp
sudo netstat -tupln | grep LISTEN | grep udp6 | awk "{print \$4}" | grep ">:::" | awk -F: "{print \$4}" | sort | uniq >> /home/emonge/testportstcp
sudo netstat -tupln | grep LISTEN | grep tcp6 | awk "{print \$4}" | grep ">::1:" | awk -F: "{print \$4}" | sort | uniq >> /home/emonge/testportsudp
sudo netstat -tupln | grep LISTEN | grep udp6 | awk "{print \$4}" | grep -v ">::1:" | grep -v ">:::" | awk -F: "{print \$6}" | sort | uniq >> /home/emonge/testportsudp
sudo netstat -tupln | grep LISTEN | grep udp6 | awk "{print \$4}" | grep "\." | awk -F: "{print \$2}" | sort | uniq >> /home/emonge/testportsudp
sudo cat /home/emonge/testportsudp | sort | uniq
```

Use above to open ports

```
sudo systemctl start firewalld
sudo systemctl enable firewalld
for i in $(cat /home/emonge/testportstcp|sort |uniq); do sudo firewall-cmd --permanent --add-port=$i/tcp;done
for i in $(cat /home/emonge/testportsudp|sort |uniq); do sudo firewall-cmd --permanent --add-port=$i/udp;done
sudo firewall-cmd --reload
```

Referencias

- https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7/html/Security_Guide/sec-Using_Firewalls.html

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