Setup a panagenda Product on Existing Appliance

Requirements

In order to install a panagenda product on a existing appliance, the following requirements must be met:

Software Dependencies

- Docker version >= 19.03 (https://docs.docker.com/install/)
- Docker Compose version >= 1.21 (https://docs.docker.com/compose/install/)
- unzip (to extract the installer from our zip file)

Partitions

Our software needs a second virtual disk to store its data. Therefore you need to add a second 100 GB virtual disk to the virtual machine using vSphere and restart the virtual machine.

Afterwards please create the following volumes:

Volume	Mount point	Size
cl-pan-opt_panagenda_logs	/opt/panagenda/logs	5GB
cl-pan-opt_panagenda_appdata	/opt/panagenda/appdata	30GB
cl-pan-opt_panagenda_pgdata	/opt/panagenda/pgdata	at least 60GB Additional resources may be required under all above described conditions, depending on data collection intervals, number of sensors enabled, and number of servers being monitored. panagenda and selected panagenda OfficeExpert business partners can help you evaluate the optimum hardware specifications for your environment.

The naming of the volumes is important because the software will use the names to check the disk usage to prevent data corruption!

Technical Support

To facilitate technical support you should also install:

- A graphical user interface (e.g. GNOME)
- A terminal (e.g. GNOME Terminal)
- A browser (e.g. Firefox)
- pgAdmin (https://www.pgadmin.org/download/)

Example for CentOS 7

We tested the following commands to install the requirements on a CentOS 7.7 server. They should also work for RHEL 7.

In our case the device name of the data disk was */dev/sdb*. This might be different in your scenario. The following command can be used to determine yours:

```
ls /dev/sd*
```

Afterwards please adapt the *pvcreate* and *vgcreate* commands.

```
# Upgrade system
yum upgrade

# Install UI
yum groupinstall "X Window System"
yum install gnome-classic-session gnome-terminal liberation-mono-fonts

# Install pgAdmin 3
yum install wget
wget dl.fedoraproject.org/pub/epel/7/x86_64/Packages/e/epel-release-7-12.noarch.rpm
yum install epel-release-7-12.noarch.rpm
yum install pgadmin3.x86_64


# Install Firefox
yum install firefox

# Partitions, e.g. on /dev/sdb
pvcreate /dev/sdb

# Create volume group
vgcreate cl-pan /dev/sdb

# Create logical volumes (logs & appdata fixed size, remaining space used for data volume)
lvcreate -n cl-pan-opt_panagenda_logs -L 5GB cl-pan
lvcreate -n cl-pan-opt_panagenda_appdata -L 30GB cl-pan
lvcreate -n cl-pan-opt_panagenda_pgdata -l 100%FREE cl-pan

# Create file systems
mkfs.xfs /dev/cl-pan/cl-pan-opt_panagenda_logs
mkfs.xfs /dev/cl-pan/cl-pan-opt_panagenda_appdata
mkfs.xfs /dev/cl-pan/cl-pan-opt_panagenda_pgdata

# Create mount points
mkdir -p /opt/panagenda/logs
mkdir /opt/panagenda/appdata
mkdir /opt/panagenda/pgdata

# Add mount point entries
echo /dev/cl-pan/cl-pan-opt_panagenda_logs /opt/panagenda/logs xfs defaults 0 0 >> /etc/fstab
echo /dev/cl-pan/cl-pan-opt_panagenda_appdata /opt/panagenda/appdata xfs defaults 0 0 >> /etc/fstab
echo /dev/cl-pan/cl-pan-opt_panagenda_pgdata /opt/panagenda/pgdata xfs defaults 0 0 >> /etc/fstab
mount -a

# Install Docker
yum install yum-utils
yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
yum install docker-ce
mkdir /etc/docker
echo '{ "bip": "172.17.0.1/16", "data-root": "/opt/panagenda/appdata/docker" }' > /etc/docker/daemon.json
systemctl enable docker
systemctl start docker

# Install Docker Compose
curl -L https://github.com/docker/compose/releases/download/1.21.0/docker-compose-$(uname -s)-$(uname -m) -o
/usr/local/bin/docker-compose
chmod +x /usr/local/bin/docker-compose

# Install unzip
yum install unzip
```