
Subject: VE mutual dependence
Posted by [laotse](#) on Wed, 07 Jan 2009 19:08:33 GMT
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Hi there,

is there a standard way to resolve mutual dependences of VE during startup? E.g. a container might host a file-server, which exports file systems, which another container shall import (or DNS, DHCP, ...)

Of course the dependent VE could be marked as not auto-starting and I could chain a script for the rest; which I'll probably do. The question is, whether there is some canonical way to achieve that?

Regards,
- lars.

Subject: Re: VE mutual dependence
Posted by [maratrus](#) on Fri, 09 Jan 2009 12:06:44 GMT
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No, there is no canonical way to achieve that. But if you have any idea feel free to share it (or better implement).

Subject: Re: VE mutual dependence
Posted by [laotse](#) on Fri, 09 Jan 2009 19:18:37 GMT
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Well, for my personal needs I'd simply put up a more or less sequential script.

As a proposal for a canonical way, I'd consider a mechanism like the passes in fstab. If there is some public interest in it, I guess I could implement that - once I have the system out of any severe functional problems.

Subject: Re: VE mutual dependence
Posted by [curx](#) on Mon, 12 Jan 2009 06:56:31 GMT
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you can use the OpenVZ Action script for a single dependency mechanism, here using a mount script.

Checks if a container is running, if not, mount script exit with error code greater than 0 and vzctl

start is aborted.

```
#!/bin/bash
```

```
# Copyright (C) 2006-2008 :  
# Thorsten Schifferdecker <tsd@debian.systs.org>  
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#
```

```
# /usr/share/vzctl/scripts/vps.mount-10-ct-dependency.sh
```

```
# include main vz.conf  
VZCONF=/etc/vz/vz.conf  
[ -f ${VZCONF} ] || exit 0  
. ${VZCONF}
```

```
# debug mode in main vz.conf set ?  
[ "$DEBUG" == "yes" ] && set -x
```

```
# single dependency container id  
CT_DEPEND="" awk -F "" '/^CT_DEPEND/ { print $2 }' /etc/vz/conf/$VEID.conf "  
[ -f /etc/vz/conf/${CT_DEPEND}.conf ] || exit 0  
[ $VEID -ne $CT_DEPEND ] || exit 0
```

```
# cycles to check  
CHECK_CYCLE=10
```

```
# sleep time  
SLEEP_TIME=5
```

```
LOG_MESSAGE="Container dependency"  
__OK="is solved"  
__FAILED="has failed"
```

```

#
# main
#
for i in ${CHECK_CYCLE} ; do

    # started and running container has beancounters to avoid vzlist
    if [ -d /proc/bc/${CT_DEPEND} ] ; then
        [ $LOGGING == 'yes' ] && echo "`/bin/date +%FT%H:%M:%S%z` vzctl : CT ${VEID} :
$LOG_MESSAGE to CT ${VEID} $__OK" >> $LOGFILE
        printf "$LOG_MESSAGE to CT ${VEID} $__OK\n"

        # add checking services, too
        # include service checks

        exit 0
    fi

    sleep $SLEEP_TIME
done

[ ${VERBOSE} -ne 0 ] && printf " to CT ${VEID} $__FAILED\n"
[ $LOGGING == 'yes' ] && printf "`/bin/date +%FT%H:%M:%S%z` vzctl : CT ${VEID} : Error
$LOG_MESSAGE to CT ${VEID} $__FAILED\n" >> $LOGFILE
printf "$LOG_MESSAGE $__FAILED\n"

exit 1

```

save this script to /usr/share/vzctl/scripts/vps.mount-10-ct-dependency.sh and create a symbolic link :

```

global:
$ ln -s /usr/share/vzctl/scripts/vps.mount-10-ct-dependency.sh /etc/vz/conf/vps.mount

```

or for single container,m only:

```

$ ln -s /usr/share/vzctl/scripts/vps.mount-10-ct-dependency.sh /etc/vz/conf/<CTID>.mount

```

and activate check:

```

$ echo "CT_DEPEND=\"<CTID_DEPENDS_ON>\"" >> /etc/vz/conf/<CTID>.conf

```

Bye,
Thorsten