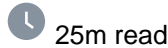


VM Backups and Caché freeze/thaw scripts

??

[Toshihiko Minamoto](#) · 2020?8?17?



VM Backups and Caché freeze/thaw scripts

?? Caché ??????????????????????
??Linux ? VMware ??? VMware
??

Caché ??????? - ??????????

Caché ?????????????? Caché ????????????????????????????????????? Caché ?????????????????????????????
?? Caché
??

??

?????? [???????????](#) ???

?? Caché ??????????????????????freeze????????????????????
??freeze??

?? VM ??? 1
?? Caché ?????????????????????
QoS ??? QoS
??

[InterSystems ???](#)

????????? Caché ????????????????????????? [Backup and Restore Guide](#) ???

????????????????

???????????????????????????? - Caché Online Backup

?? InterSystems ????????????????????????????????? Caché
????????????????????? Caché
?? Caché Online
Backup ???

VMware ?????? Caché Online Backup ??? Caché Online Backup
?? Caché Online Backup ????????????????????????????? Caché
??
??

Caché Online Backup ?? Caché ???

????InterSystems ???Veeam ????????????? Freeze ? Thaw
??vSphere 6 ? Red Hat 7 ??????????????????????

??

Freeze ???????????:

```
#!/bin/sh
#
# Script called by VMWare immediately prior to snapshot for backup.
# Tested on Red Hat 7.2
#

LOGDIR=/var/log
SNAPLOG=$LOGDIR/snapshot.log

echo >> $SNAPLOG
echo "`date`: Pre freeze script started" >> $SNAPLOG
exit_code=0

# Only for running instances
for INST in `ccontrol qall 2>/dev/null | tail -n +3 | grep '^up' | cut -c5- | awk '{
print $1}'`; do

    echo "`date`: Attempting to freeze $INST" >> $SNAPLOG

    # Detailed instances specific log
    LOGFILE=$LOGDIR/$INST-pre_post.log

    # Freeze
    csession $INST -U '%SYS' "##Class(Backup.General).ExternalFreeze(\"$LOGFILE\", , , ,
    ,,1800)" >> $SNAPLOG $
    status=$?

    case $status in
        5) echo "`date`: $INST IS FROZEN" >> $SNAPLOG
            ;;
        3) echo "`date`: $INST FREEZE FAILED" >> $SNAPLOG
            logger -p user.err "freeze of $INST failed"
            exit_code=1
            ;;
        *) echo "`date`: ERROR: Unknown status code: $status" >> $SNAPLOG
            logger -p user.err "ERROR when freezing $INST"
            exit_code=1
            ;;
    esac
    echo "`date`: Completed freeze of $INST" >> $SNAPLOG
done

echo "`date`: Pre freeze script finished" >> $SNAPLOG
exit $exit_code
```

Thaw ???????????:

VM Backups and Caché freeze/thaw scripts

Published on InterSystems Developer Community (<https://community.intersystems.com>)

```
#!/bin/sh
#
# Script called by VMWare immediately after backup snapshot has been created
# Tested on Red Hat 7.2
#

LOGDIR=/var/log
SNAPLOG=$LOGDIR/snapshot.log

echo >> $SNAPLOG
echo "`date`: Post thaw script started" >> $SNAPLOG
exit_code=0

if [ -d "$LOGDIR" ]; then

    # Only for running instances
    for INST in `ccontrol qall 2>/dev/null | tail -n +3 | grep '^up' | cut -c5- | awk '{print $1}'`; do

        echo "`date`: Attempting to thaw $INST" >> $SNAPLOG

        # Detailed instances specific log
        LOGFILE=$LOGDIR/$INST-pre_post.log

        # Thaw
        csession $INST -U%SYS "##Class(Backup.General).ExternalThaw(\"$LOGFILE\")" >>
$SNAPLOG 2>&1
        status=$?

        case $status in
            5) echo "`date`: $INST IS THAWED" >> $SNAPLOG
                csession $INST -U%SYS "##Class(Backup.General).ExternalSetHistory(\"$LOGFILE\")" >> $SNAPLOG$
                ;;
            3) echo "`date`: $INST THAW FAILED" >> $SNAPLOG
                logger -p user.err "thaw of $INST failed"
                exit_code=1
                ;;
            *) echo "`date`: ERROR: Unknown status code: $status" >> $SNAPLOG
                logger -p user.err "ERROR when thawing $INST"
                exit_code=1
                ;;
        esac
        echo "`date`: Completed thaw of $INST" >> $SNAPLOG
    done
fi

echo "`date`: Post thaw script finished" >> $SNAPLOG
exit $exit_code
```

?????????????????:

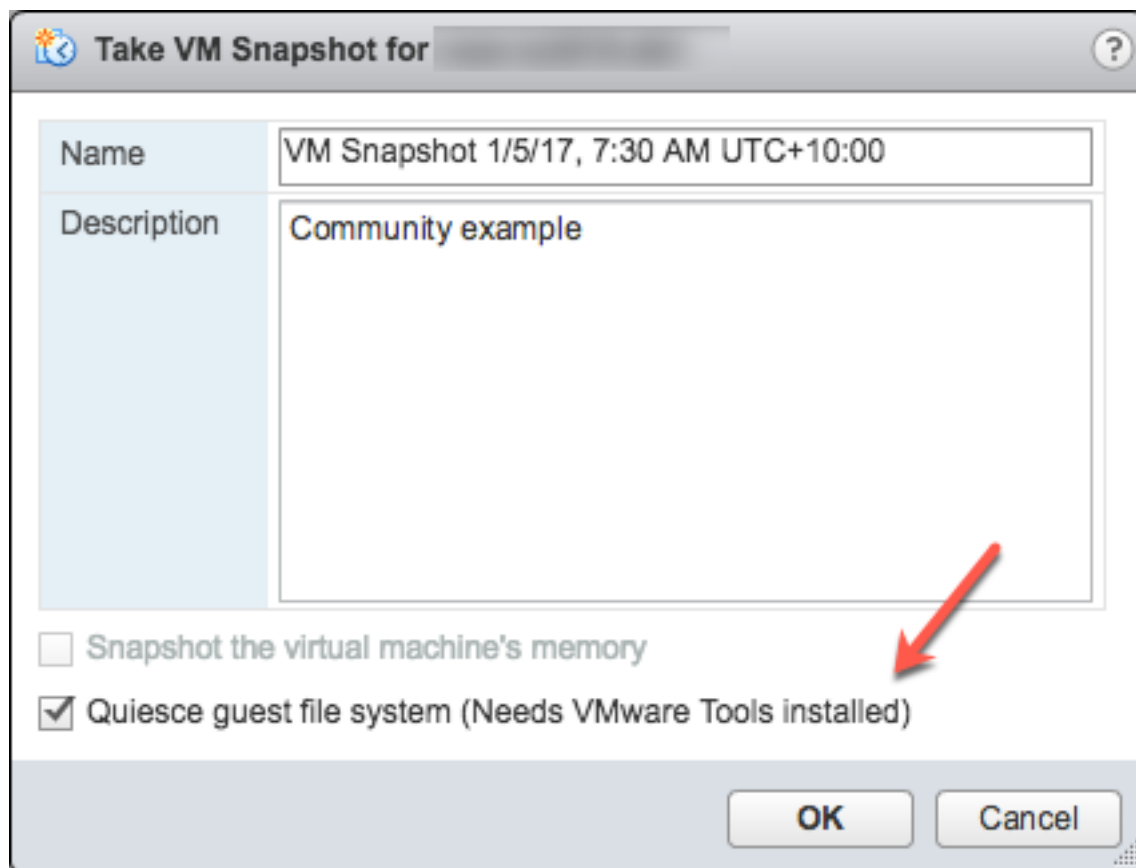
```
# sudo chown root.root /usr/sbin/pre-freeze-script /usr/sbin/post-thaw-script
# sudo chmod 0700 /usr/sbin/pre-freeze-script /usr/sbin/post-thaw-script
```

Freeze ? Thaw ????

VM Backups and Caché freeze/thaw scripts

Published on InterSystems Developer Community (<https://community.intersystems.com>)

VM Take VM Snapshot? VM



- Snapshot the virtual machine's memory

- Quiesce guest file system (Needs VMware Tools installed): VMware

VMware

Freeze/Thaw \$SNAPSHOT

```

Wed Jan 4 16:30:35 EST 2017: Pre freeze script started
Wed Jan 4 16:30:35 EST 2017: Attempting to freeze H20152
Wed Jan 4 16:30:36 EST 2017: H20152 IS FROZEN
Wed Jan 4 16:30:36 EST 2017: Completed freeze of H20152
Wed Jan 4 16:30:36 EST 2017: Pre freeze script finished
    
```

```

Wed Jan 4 16:30:41 EST 2017: Post thaw script started
Wed Jan 4 16:30:41 EST 2017: Attempting to thaw H20152
Wed Jan 4 16:30:42 EST 2017: H20152 IS THAWED
Wed Jan 4 16:30:42 EST 2017: Completed thaw of H20152
Wed Jan 4 16:30:42 EST 2017: Post thaw script finished
    
```

VM Backups and Caché freeze/thaw scripts

Published on InterSystems Developer Community (<https://community.intersystems.com>)

?????Freeze ?? Thaw ??? 6 ??????????????????16:30:36?16:30:42?? ??????????????????
??IO ????????????? 200 ? Glorefs/??17 ? Gloupsds/?????????????
1,100 ?????????????????? 1 ?????????????? 3,000 ?? BM ???

????????????????????????????????????VM ???
??
??

??

???????? Freeze ? Thaw ?????? \$LOGFILE ???

01/04/2017 16:30:35: Backup.General.ExternalFreeze: Suspending system

Journal file switched to:
/trak/jnl/jrnpri/h20152/H20152_20170104.011
01/04/2017 16:30:35: Backup.General.ExternalFreeze: Start a journal restore for this backup with journal file: /trak/jnl/jrnpri/h20152/H20152_20170104.011

Journal marker set at
offset 197192 of /trak/jnl/jrnpri/h20152/H20152_20170104.011
01/04/2017 16:30:36: Backup.General.ExternalFreeze: System suspended
01/04/2017 16:30:41: Backup.General.ExternalThaw: Resuming system
01/04/2017 16:30:42: Backup.General.ExternalThaw: System resumed

VM ??????

VM ???VM ?????????????????????????????????VM
??[???](#)????????????????????????????????Caché
????????????????????????????????

?????????????????: ?VM ?????????????????????i??VM
????????????????????????????????... ???VM ???

??

VM ??Caché
??QoS???????????????????????????????? VM
????????????????????????????????????

2018 ? 3 ???: ??? Pter Greskoff ?????????????????????????????????VM ?????????????????????????????????QoS
??

QoS ?????????????????????????????????[Quality of Service Timeout Guide for Mirroring](#)
??VM ?????????? QoS ?????????????

????????????QoS ???
????????????????? QoS ???
??

```
????????????????????????????????????????????????????????????????????????????????????
????????????????????????????????????????????????????????????????QoS
????????????????????????????????????????????????????????????
```

```
??? Peter ?????????????????????????????????????QoS ????????? :08 ?? VM ????????? :07 ?????????????????????????????
```

- :00 ????????????????????????? ping ?????????????????
- :01 ???
- :02
- :03 VM ?????????
- :04 ???
- :05 QoS ??? ping ???
- :06
- :07
- :08 QoS ???
- :09 ???
- :10 VM ?????????????????????????

*????????????????Pitfalls and Concerns when Configuring your Quality of Service
Timeout? ???QoS ????????????????????????????????? QoS
???????????? 30 ?????????????????????????????????*

2018 ? 3 ???????:

```
????????? QoS ?????????? ????????????? ????????????
```

```
????????????????????????????????????????????????????????????????????????????????????
```

```
???????????????????????????????????????????????????????????? 1 ????????????????????????????????? Caché  
???????????????????????????????????????????????????????????? ?????????????????????????????????????????????  
????????????????????????????????????????????????????????????????????????????????????????????????????????  
????????????????????????????????????????
```

```
????????????????????????????????????????????????????????????????????????????????
```

```
???????????????????????????????????????????????????????????????????????????????????? true ?????????????????
```

VMware ????????????????

```
ESXi 5.0 ????????????????????????????????????????????????????????????????????????????????? vmware.log ????????????
```

```
2017-01-04T22:15:58.846Z| vcpu-0| I125: Checkpoint_Unstun: vm stopped for 38123 us
```

```
???????????????????????????????????? 38123 us ? 38123/1,000,000 ???? 0.038 ????????
```

```
???????????????????????????????????????????????????????????????????????????????????? VM ?????????  
vmware.log ????????????????????????????????????????????????????????? Linux ?????????????????????????????????
```

vmware.log ????????????????

```
vSphere ????????????? ESXi ????????????? VMware ?????????????????????????????????????????????????????????????  
VMware ????????????????????????????????????????????????????????????????????????????????? vmware.log ?????????????????
```


VM Backups and Caché freeze/thaw scripts

Published on InterSystems Developer Community (<https://community.intersystems.com>)

Log in or sign up to continue
???????

???URL: <https://jp.community.intersystems.com/post/vm-backups-and-cach%C3%A9-freezethaw-scripts>