Oracle Virtual Machine OVM

Oracle VM??????????????????????????????Xen????????????????????????????

- Troubleshooting
- Installation

Troubleshooting

Log Files

????: `/u01/app/oracle/ovm-manager-3/domains/ovm_domain/servers/AdminServer/logs/`

- **access.log**: Used to track HTTP access to the Web interface of the Oracle VM Manager and to the underlying Oracle WebLogic Server HTTP interface. This log can be used to track access and HTTP operations within Oracle VM Manager to help debug access issues and to audit access to the Oracle VM Manager.
- **AdminServer.log**: Used to track events within the underlying Oracle WebLogic Server framework, including events triggered by Oracle VM Manager. This log can be used to track a variety of issues within Oracle VM Manager including TLS/SSL certificate issues, server availability issues, and any actions performed within Oracle VM Manager which are usually identifiable by searching for items containing the string com.oracle.ovm.mgr. Log in failures resulting from locked accounts (as opposed to incorrect credentials) are also in this file.
- **AdminServer-diagnostic.log**: Used to track exceptions within the underlying Oracle WebLogic Server framework, including particular events triggered by Oracle VM Manager such as log in failures due to incorrect credentials. This log can be used to track Oracle VM Manager behavior that results in an exception or for log in failure, which can be tracked by searching for the string An incorrect username or password was specified.

Log Parsing Tool: OvmLogTool.py

????: `/u01/app/oracle/ovm-manager-3/ovm_tools/` , ?? AdminServer.log ???????????????? log ???

```
cd /u01/app/oracle/ovm-manager-3/ovm_tools/
python OvmLogTool.py -s -o ~/ovm_logs/summary.`date +%y%m%d_%H%M`
```

??????????? ~/ovm_logs/summary.<todaty_now>

> TIP:
>
> -s , ???? Error ??? Log; ???????? Log?

Q: ?????? OVMM ?????

>

> ?? /u01/app/oracle/ovm-manager-3/ovm_tools/bin/BackupDatabase -w
>
> mysqlbackup: WARNING: The value of 'innodb_checksum_algorithm' option provided to mysqlbackup might be incompatible with server config.
> mysqlbackup: ERROR: Page at offset 5242880 in /u01/app/oracle/mysql/data/appfw/APPFW_EVENTS.ibd seems corrupt!

?????

1. ????? APPFW_EVENTS ?????
2. ???????????????
3. ???????????????
4. ???????

???????

```
mysqlcheck -uroot -p -S /u01/app/oracle/mysql/data/mysqld.sock --databases appfw


mysql -u appfw -p -S /u01/app/oracle/mysql/data/mysqld.sock appfw
mysql> select count(*) from APPFW_EVENTS;
+----------+
| count(*) |
+----------+
|    18650 |
+----------+
1 row in set (0.01 sec)
```

?? table APPFW_EVENTS

```
service ovmm stop
mysqldump -uappfw -p -S /u01/app/oracle/mysql/data/mysqld.sock --databases appfw --tables APPFW_EVENTS >
table_dump.appfw_events.sql


mysql -u appfw -p -S /u01/app/oracle/mysql/data/mysqld.sock appfw
mysql> create table APPFW_EVENTS_NEW like APPFW_EVENTS;
mysql> rename table APPFW_EVENTS to APPFW_EVENTS_OLD;
mysql> rename table APPFW_EVENTS_NEW to APPFW_EVENTS;

# Import the table
mysql -uappfw -p -S /u01/app/oracle/mysql/data/mysqld.sock appfw < table_dump.appfw_events.sql
```

```
# Drop the old table
mysql -u appfw -p -S /u01/app/oracle/mysql/data/mysqld.sock appfw
mysql> drop table APPFW_EVENTS_OLD;
```

Q: OVMM ??? MySQL DB ????????

> ?? MySQL ????????
> # du -chs /u01/app/oracle/mysql/data/ovs/OVM_STATISTIC*
> 16K /u01/app/oracle/mysql/data/ovs/OVM_STATISTIC.frm
> 121G /u01/app/oracle/mysql/data/ovs/OVM_STATISTIC.ibd <===

???

1. ?????????????? MySQL ??????
2. ?? ovmm ?????????????
3. ????? OVM_STATISTIC ????

?? ovmm

```
service ovmm stop
```

????? OVM_STATISTIC ???

```
mysql -u ovs -p -S /u01/app/oracle/mysql/data/mysqld.sock ovs
Enter password: <□□□□□□>
mysql> select count(*) from OVM_STATISTIC;
+-----------+
| count(*)  |
+-----------+
| 184795278 |
+-----------+
1 row in set (6 min 35.98 sec)
```

????? OVM_STATISTIC

```
mysql> truncate table OVM_STATISTIC;
```

> TIP:
> truncate ??????? drop ? create???? 1 ???????????????

??????? truncate

```
mysql> create table NEW_OVM_STATISTIC like OVM_STATISTIC;
mysql> rename table OVM_STATISTIC to OLD_OVM_STATISTIC, NEW_OVM_STATISTIC to OVM_STATISTIC;
mysql> drop table OLD_OVM_STATISTIC;
```

Q: VM ??????? Kill ???

> VM ?????? Stopping??? Kill ????????
> tpeoddovm-db01 <1108> is locked. job info: job id(time):1525839275699 name:Stop VM: tpeoddovm-db01 description:Stop VM: tpeoddovm-db01

???????? VM ??? OVS ???? ovs-agent ??

```
service ovs-agent stop
service ovs-agent start
```

Q: ???? Server Pool

> ??? OVS ? OVM Manager ??????????? LUNs ?? Server Pool ? Repository?

???SSH ?? OVS ????? LUNs ???

```
# □□ LUN □□
multipath -ll


dd if=/dev/zero of=/dev/mapper/360a980004434375a385d4747374b5155 bs=1M count=256
```

Q: [OVM 3.3.x] ????????????

>

> ?????
> Unexpected error during login (java.lang.NullPointerException)

??????

- ?? ovmm ??
- ?? OVMM ??

Updated by 2022/7/6

> ??????????????????????????

??:

```
# □□ ovmm □□□□
service ovmm status

# □□□□□□: □□□□□
# □□□□□□ ovmm □□
service ovmm stop
service ovmm start

# □□□□□□□□□□□□ java □□□ process □□ Kill
ps -ef | grep java

# □□ MySQL □□□□
# □□□□□□□□ MySQL □□
service ovmm_mysql start

# □□□□ ovmm □□
service ovmm start
service ovmm status
```

Q: Server Pool ? Master Server ????????????? VM ??(Migrate) ???? OVS ???? VM ?????

>

> ????
> Caught during invoke method:
> com.oracle.ovm.mgr.api.exception.IllegalOperationException....

?????? VM ???????? Event Serverity ??? Critical ??? Informational??????

1. ????????
2. ?????????????? Repositories Storage ??
3. ? VM ???????(Migrate) ??????
4. OVMM > Servers and VMs > ?????OVS?? > ?????? VM > ??? Display Events ??? Critical Event ?? Acknowledge????? VM ? Event Serverity ????????? Informational?
5. ?? VM ??

Q: Repositories ???? Error ??

> ????????????? Storage ??????????????Error ?? ?????

???OVMM Admin > Repositories > ?? Storage Repository > Perspective: ?? Events > ???????????? Acknowledge????

Q: [OVM 3.3.x]??? Clustered Server Pool ???? Oracle VM Server(OVS)

> ??? OVS ???????????????? Clustered Server Pool ???????????
> OVMRU_000036E Cannot remove server: tycoddovs01.winfoundry.com, from pool: oddfdc_db. There are still OCFS2 file systems

??????? Clustered Server Pool ??????? OVS ???????????

- ???? OVS ???? Master Server?
- ?????(un-present) ??? OVS ??????? Storage Repositories?

???? OVS ? Server Pool ????????????????????? Server Pool ????

1. SSH ???? OVS ??????????

```
service ovs-agent stop
rm -rf /etc/ovs-agent/db
cat /dev/null > /etc/ocfs2/cluster.conf
service ovs-agent start
```

2. ?? OVMM ???????????????? OVS ???? Unassigned Servers ???

TIPs?

- ?? OVS ?? Unassigned ????????????? Server Pool (?????? Internal Error)?????? OVMM ?????? OVS ? OVMM ?????????????
- ?? Unassigned ?? OVS ??????????????????????????? OVS ??? Discover Servers???????????????? OVS ?????
  NOTE??? Discover Servers ?????????? Unknown Server Pool.....??????????????????

Q: ???? VM ?????????

> ?????
> ?? VM template ??? VM ??????????????????????????

1. ?? OVMM ? VM ? System ????

OVMM > Servers and VMs > ?? VM > ?? VM > Disks > ?? Slot 0 ???

- Virtual Disk Name?system (x) <?????>
- Size (GB)?12 -> 50GB
- Shareable???

2. ?? VM ????????

?? SWAP ???

```
# □□ SWAP □□□
free -m
□□□ 2048M

# □□ SWAP
swapoff /dev/xvda3
```

1. ?? xvda3 & xvda2 ??

2. ?? xvda2 (+48G) & xvda3 (????)
3. ?????

```
fdisk /dev/xvda
```

????

```
reboot
```

??? SWAP

```
mkswap /dev/xvda3
swapon /dev/xvda3
```

Resize ???

```
resize2fs /dev/xvda2
```

Q: ???? Oracle VM ????

- ? OVMM ?? Discover Servers ???? OVM ??? Unowned ???OVMM ??????????
- ??????? OVM ?? Owned by Another.... ????????????? OVM ? OVMM??????OVM????????????????? OVMM ???
- ?? OVMM ?????? OVM ???????????? server pool???????????????? take ownership ???

Q: ???????

?????? OVMM ??? NTP Server???? OVS ??? VM ??? OVMM ????

OVMM ?? NTP)

1. ??????

?? /etc/sysconfig/clock ??? setup?

2. ?? ntp.conf

```
# □□□□□ OVS □□□□□□□□□□□□□□□□□□□□□□□□□□□□
# Hosts on local network are less restricted.
restrict 192.168.7.0 mask 255.255.255.0 nomodify notrap


# □□□□□
```

```
#server 127.127.1.0     # local clock
#fudge  127.127.1.0 stratum 10

# □□□□□□ NTP □□□□□□
server 0.rhel.pool.ntp.org
server 1.rhel.pool.ntp.org
server 2.rhel.pool.ntp.org
```

?? ntpd ??

OVS ?? NTP)

> OVMM 3.3.x ???? OVS ???????? VM Manager ????? OVS ????????? OVS ? ntp.conf?

VM ?? NTP)

> VM(guest OS) ???? OEL template??? Linux kernel ? UEK based?? VM ?????????? OVS ??????????????????????? OVS ???????? VM ?????????????? NTPD ? ntpdate ?????

?? /etc/ntp.conf

```
# □□□□□
#server 127.127.1.0     # local clock
#fudge  127.127.1.0 stratum 10

# □□□□□□
# OVM Manager
server 10.23.0.203
```

?? ntpd ??

Installation

Introduction

- Oracle expands Oracle Linux KVM server virtualization solution with Oracle Linux 8 support
- Oracle Linux Virtualization Manager