

# 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.<today\_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/mysql.sock --databases appfw
```

```
mysql -u appfw -p -S /u01/app/oracle/mysql/data/mysql.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/mysql.sock --databases appfw --tables APPFW_EVENTS >
table_dump.appfw_events.sql
```

```
mysql -u appfw -p -S /u01/app/oracle/mysql/data/mysql.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/mysql.sock appfw < table_dump.appfw_events.sql
```

```
# Drop the old table
```

```
mysql -u appfw -p -S /u01/app/oracle/mysql/data/mysql.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/mysql.sock ovs
```

```
Enter password: <[REDACTED]>
```

```
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

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

??:

```
# 检查 ovmm 进程
service ovmm status

# 检查日志: 检查
# 检查 ovmm 进程
service ovmm stop
service ovmm start

# 检查 java 进程是否 Kill
ps -ef | grep java

# 检查 MySQL 进程
# 检查 MySQL 进程
service ovmm_mysql start

# 检查 ovmm 进程
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???????OVMM??????????????????? 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