

How to disable AppArmor?

503 Jisna Joseph June 2, 2022 [Common Errors & Troubleshooting](#) 4356

What is AppArmor?

AppArmor is an important security feature that locks down vulnerable processes, restricting the damage security vulnerabilities these processes can cause. *AppArmor* proactively protects the operating system and applications from external or internal threats and even zero-day attacks by enforcing a specific rule set on a per-application basis.

Sometimes MySQL will not start if **AppArmor** is enabled.

```
? mysql.service - MySQL Community Server

Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor
preset: enabled)

Active: failed (Result: exit-code) since Wed 2022-05-04 08:13:32
CEST; 3min 21s ago

Process: 1937 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre
(code=exited, status=0/SUCCESS)

Process: 1945 ExecStart=/usr/sbin/mysqld (code=exited,
status=1/FAILURE)

Main PID: 1945 (code=exited, status=1/FAILURE)

Status: "Server startup in progress"
```

```
Error: 9 (Bad file descriptor)
```

```
May 04 08:13:32 gateway systemd[1]: mysql.service: Scheduled restart job, restart counter is at 5.
```

```
May 04 08:13:32 gateway systemd[1]: Stopped MySQL Community Server.
```

```
May 04 08:13:32 gateway systemd[1]: mysql.service: Start request repeated too quickly.
```

```
May 04 08:13:32 gateway systemd[1]: mysql.service: Failed with result 'exit-code'.
```

```
May 04 08:13:32 gateway systemd[1]: Failed to start MySQL Community Server.
```

You can see more error messages from **dmesg**

```
[ 1173.479970] audit: type=1400 audit(1651644810.452:104):  
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1908  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.479975] audit: type=1400 audit(1651644810.452:105):  
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1908  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.479978] audit: type=1400 audit(1651644810.452:106):
```

```
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1908  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.479981] audit: type=1400 audit(1651644810.452:107):  
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1908  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.479984] audit: type=1400 audit(1651644810.452:108):  
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1908  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.479987] audit: type=1400 audit(1651644810.452:109):  
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1908  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.886489] audit: type=1400 audit(1651644810.856:110):  
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1918  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.886498] audit: type=1400 audit(1651644810.856:111):  
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1918  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.886504] audit: type=1400 audit(1651644810.856:112):  
apparmor="DENIED" operation="open" profile="/usr/sbin/mysqld"  
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1918  
comm="mysqld" requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

```
[ 1173.886508] audit: type=1400
audit(1651644810.856:113): apparmor="DENIED" operation="open"
profile="/usr/sbin/mysqld"
name="/mnt/HC_Volume_13321786/log/mysql/error.log" pid=1918
comm="mysqld"

requested_mask="ac" denied_mask="ac" fsuid=113 ouid=113
```

You can check the current status of **AppArmor** on the server by running the following command

```
root@VirtualBox:~# systemctl status apparmor
```

How to disable AppArmor for a particular process?

To *disable AppArmor* only for a particular process run the following command

```
root@VirtualBox:~# ln -s /etc/apparmor.d/profile.name
/etc/apparmor.d/disable/

root@VirtualBox:~# apparmor_parser -R
/etc/apparmor.d/disable/profile.name
```

For example to *disable AppArmor* for MySQL service

```
root@VirtualBox:~# ln -s /etc/apparmor.d/usr.sbin.mysqld
/etc/apparmor.d/disable/

root@VirtualBox:~# apparmor_parser -R
/etc/apparmor.d/disable/usr.sbin.mysqld
```

To *stop AppArmor*

```
root@VirtualBox:~# systemctl stop apparmor
```

To *disable AppArmor* completely execute:

```
root@VirtualBox:~# systemctl disable apparmor
```

After *disabling AppArmor* you have to reboot your system

Online URL: <https://www.ezeelogin.com/kb/article/how-to-disable-apparmor-503.html>