



## "Cannot open /dev/vmmon: No such file or directory" error when powering on a VM



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### Products

VMware Desktop Hypervisor

### Issue/Introduction

The article provide steps to sign VMware drivers on Linux host with secure boot enabled, so that VMware Workstation can run VMs successfully.

#### Symptoms:

- Powering on a virtual machine on Linux hosts that boots from UEFI with secure boot enabled fails
- You see the error:

```
Cannot open /dev/vmmon: No such file or directory. Please make sure that the  
kernel module `vmmon' is loaded
```

### Environment

## VMware Workstation Pro 12.x (Linux)

## Cause

On Linux host with secure mode enabled, it is not allowed to load any unsigned drivers. Due to this, VMware drivers, such as `vmmon` and `vmnet`, are not able to be loaded which prevents virtual machine to power on.

## Resolution

## Notes:

- Workstation does not ship `vmmon.ko` and `vmnet.ko` in the bundle currently. The two modules are built during the installation or the first launch of workstation.
- During the installation if the host provides the proper kernel headers and gcc, these two modules will be built silently. The progress is logged into `/tmp/vmware-root/vmware-PID.log`.
- When workstation is first launched, a dialog will pop up to ask you for the usable kernel headers and/or gcc. These two modules will be built with window showing the progress and log printed on terminal.
- Ensure to have the Host OS updated with the latest patches.

**To correct the issue with secure boot enabled:**

1. Generate a key pair using the `openssl` to sign `vmmon` and `vmnet` modules:

```
$openssl req -new -x509 -newkey rsa:2048 -keyout MOK.priv -outform DER -out  
MOK.der -nodes -days 36500 -subj "/CN=VMware/"
```

Replace `MOK` with the name of the file you want for the key.

2. Sign the modules using the generated key by running these commands:

```
$sudo /usr/src/linux-headers-`uname -r`/scripts/sign-file sha256 ./MOK.priv  
./MOK.der $(modinfo -n vmmon)
```

```
$sudo /usr/src/linux-headers-`uname -r`/scripts/sign-file sha256 ./MOK.priv  
./MOK.der $(modinfo -n vmnet)
```

- Import the public key to the system's `MOK` list by running this command:

```
$mokutil --import MOK.der
```

- Confirm a password for this `MOK` enrollment request.
- Reboot your machine. Follow the instructions to complete the enrollment from the UEFI consol.

**Note:** Preceding commands are verified to work on Ubuntu 16.04 hosts. The general steps are applicable to all Linux distributions, but specific Linux distributions might differ in commands.

## Additional Information

With VMware you will have two modules with this problem, `vmmon` and `vmnet`. You must sign them both:

- `user@localhost:~$ sudo /usr/src/kernels/$(uname -r)/scripts/sign-file sha256 ./MOK.priv ./MOK.der $(modinfo -n vmmon)`
- `user@localhost:~$ sudo /usr/src/kernels/$(uname -r)/scripts/sign-file sha256 ./MOK.priv ./MOK.der $(modinfo -n vmnet)`

## Feedback


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Yes



No

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## PRODUCTS