

# 当IOx的SD卡为FAT格式时，Dockerd在IE3400上无法启动

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## 简介

本文档介绍如何修复SD卡不是ext4格式化时Docker守护程序无法在IE3400上启动的问题。

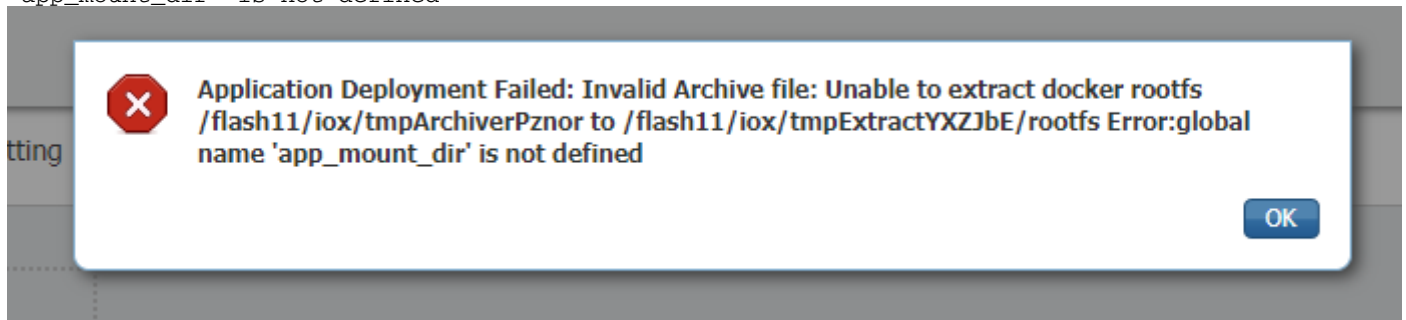
## 问题

IE3400使用SD卡存储与IOx应用相关的存储。如果SD卡未采用ext4格式，则会导致问题。

以下是症状：

当您尝试通过IOx GUI部署应用时，会看到以下消息：

```
Application Deployment Failed: Invalid Archive file: Unable to extract docker rootfs  
/flash11/iox/tmpArchiverPznor to /flash11/iox/tmpExtractYXZJbE/rootfs Error:global name  
'app_mount_dir' is not defined
```



从日志/控制台，当您启用IOx或重新启动后IOx启动时，会看到这些消息。

```
ie3400#conf t  
Enter configuration commands, one per line. End with CNTL/Z.  
ie3400(config)#iox  
Warning: Do not remove SD flash card when IOx is enabled or errors on SD device could occur.  
  
*Feb 21 12:45:27.045: %UICFGEXP-6-SERVER_NOTIFIED_START: R0/0: psd: Server iox has been notified  
to start  
*Feb 21 12:45:30.737: %PMAN-3-PROCFAIL: R0/0: root: The process dockerd has failed (rc 1)  
*Feb 21 12:45:32.184: %PMAN-3-PROCHOLDDOWN: R0/0: root: The process dockerd has been helddown  
(rc 1)  
*Feb 21 12:46:57.983: %IM-6-IOX_ENABLEMENT: R0/0: ioxman: IOX is ready.
```

## 解决方案

此问题与SD卡的文件系统有关。如果卡的格式不是ext4，例如FAT/vFAT，则似乎会出现问题。

要检查SD卡上的当前文件系统，可以使用：

```
ie3400#sh sdflash: file
Filesystem: sdflash
Filesystem Path: /flash11
Filesystem Type: vfat
Mounted: Read/Write
```

如输出所示，此SD卡的格式为FAT/vFAT。

要解决此问题，请首先停止/禁用IOx。

```
ie3400#conf t
Enter configuration commands, one per line. End with CNTL/Z.
ie3400(config)#no iox
Notify IOx to stop. To safely remove SD card, please wait until IOx is stopped.
*Feb 21 12:48:01.615: %UICFGEXP-6-SERVER_NOTIFIED_STOP: R0/0: psd: Server iox has been notified
to stop
```

使用show iox命令确保完全停止。

```
ie3400#sh iox

IOx Infrastructure Summary:
-----
IOx service (CAF)           : Not Running
IOx service (HA)           : Not Supported
IOx service (IOxman)       : Not Running
IOx service (Sec storage)  : Not Supported
Libvirtd 1.3.4              : Running
Dockerd                    : Not Running
```

接下来，正确格式化卡以用于IOx，您可以使用此命令。

请记住，这会清除SD卡上的所有数据。

```
ie3400#format sdflash: ext4
Format operation may take a while. Continue? [confirm]
Format operation will destroy all data in "sdflash:". Continue? [confirm]
format completed with no errors
```

Format of sdflash: complete

完成后，再次启动/启用IOx。

```
ie3400#conf t
Enter configuration commands, one per line. End with CNTL/Z.
ie3400(config)#iox
Warning: Do not remove SD flash card when IOx is enabled or errors on SD device could occur.

*Feb 21 12:49:18.310: %UICFGEXP-6-SERVER_NOTIFIED_START: R0/0: psd: Server iox has been notified
to start
*Feb 21 12:49:48.165: %IM-6-IOX_ENABLEMENT: R0/0: ioxman: IOX is ready.
```

如您所见，不再显示有关dockerd的错误消息，并使用此命令show iox检查状态。

```
ie3400#sh iox
```

```
IOx Infrastructure Summary:
```

```
-----
```

```
IOx service (CAF) 1.10.0.1 : Running  
IOx service (HA)           : Not Supported  
IOx service (IOxman)       : Running  
IOx service (Sec storage)  : Not Supported  
Libvirtd 1.3.4             : Running  
Dockerd 18.03.0           : Running
```