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Can't start minishift on Ubuntu 18.04: "qemu-system-x86_64: error: failed to set MSR 0x38d to 0x0" #3210

[New issue](#)



Closed mydockergit opened this issue on 20 Mar 2019 · 4 comments



mydockergit commented on 20 Mar 2019 • edited ▾

General information

I am running Ubuntu 18.04 on my VMware workstation.
Virtualization is enabled (`Virtualize Intel VT-x/EPT` or `AMD-V/RVI` is checked).

- Minishift version: minishift v1.33.0+ba29431
- OS: Linux Ubuntu 18.04

Assignees

No one assigned

Labels

None yet

Projects

INFO/ERROR

No LSB modules are available.

Distributor ID: Ubuntu

Description: Ubuntu 18.04.2 LTS

Release: 18.04

Codename: bionic

- Hypervisor: KVM

Steps to reproduce

Make sure minikube is running with `minikube start --vm-driver=none` . and then `minikube status` and `kubectl get pods` .

1. Follow the [instructions](#) to prepare virtualization environment
2. Download `minishift-1.33.0-linux-amd64.tgz`
3. Extracted it and ran `minishift start` -
- 4.

Expected

minishift to start

Actual

Logs

```
root@ubuntu:~# minishift start --show-libmachine-logs -v5
-- minishift version: v1.33.0+ba29431
-- Starting profile 'minishift'
Found binary path at /usr/local/bin/docker-machine-driver-kvm
Launching plugin server for driver kvm
Plugin server listening at address 127.0.0.1:38563
() Calling .GetVersion
Using API Version 1
() Calling .SetConfigRaw
```

Milestone

No milestone

Linked pull requests

Successfully merging a pull request may close this issue.

None yet

4 participants



```
(minishift) DBG | Fetching VM...
-- Check if deprecated options are used ... OK
-- Checking if https://github.com is reachable ... OK
-- Checking if requested OpenShift version 'v3.11.0' is valid ... OK
-- Checking if requested OpenShift version 'v3.11.0' is supported ... OK
-- Checking if requested hypervisor 'kvm' is supported on this platform ... OK
-- Checking if KVM driver is installed ...
  Driver is available at /usr/local/bin/docker-machine-driver-kvm ...
  Checking driver binary is executable ... OK
-- Checking if Libvirt is installed ... OK
-- Checking if Libvirt default network is present ... OK
-- Checking if Libvirt default network is active ... OK
-- Checking the ISO URL ... OK
-- Checking if provided oc flags are supported ... OK
-- Starting the OpenShift cluster using 'kvm' hypervisor ...
-- Starting Minishift VM ....Found binary path at /usr/local/bin/docker-machine-driver-kvm
Launching plugin server for driver kvm
Plugin server listening at address 127.0.0.1:44151
() Calling .GetVersion
Using API Version 1
() Calling .SetConfigRaw
() Calling .GetMachineName
(minishift) Calling .GetState
(minishift) DBG | Getting current state...
(minishift) DBG | Fetching VM...
(minishift) Calling .Start
(minishift) DBG | Starting VM minishift
(minishift) Failed to start: virError(Code=1, Domain=10, Message='internal error: process exited while
connecting to monitor: 2019-03-20T08:24:27.738295Z qemu-system-x86_64: error: failed to set MSR 0x38d to
0x0
(minishift) qemu-system-x86_64: /build/qemu-dVNw8t/qemu-2.11+dfsg/target/i386/kvm.c:1807: kvm_put_msrs:
Assertion `ret == cpu->kvm_msr_buf->nmsrs' failed.')
  FAIL E0320 01:24:28.148969 33192 start.go:494] Error starting the VM: Error starting stopped host:
virError(Code=1, Domain=10, Message='internal error: process exited while connecting to monitor: 2019-
03-20T08:24:27.738295Z qemu-system-x86_64: error: failed to set MSR 0x38d to 0x0
qemu-system-x86_64: /build/qemu-dVNw8t/qemu-2.11+dfsg/target/i386/kvm.c:1807: kvm_put_msrs: Assertion
`ret == cpu->kvm_msr_buf->nmsrs' failed.'). Retrying.
Error starting the VM: Error starting stopped host: virError(Code=1, Domain=10, Message='internal error:
process exited while connecting to monitor: 2019-03-20T08:24:27.738295Z qemu-system-x86_64: error:
failed to set MSR 0x38d to 0x0
qemu-system-x86_64: /build/qemu-dVNw8t/qemu-2.11+dfsg/target/i386/kvm.c:1807: kvm_put_msrs: Assertion
`ret == cpu->kvm_msr_buf->nmsrs' failed.')
```



mydockergit commented on 20 Mar 2019

Author

After enabling the Virtualize CPU performance counters I was able to start minishift.

Virtual Machine Settings

HardwareOptions

Device	Summary
Memory	4.3 GB
Processors	4
Hard Disk (SCSI)	30 GB
CD/DVD (SATA)	Auto detect
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

Processors

Number of processors:2

Number of cores per processor:2

Total processor cores:4

Virtualization engine

Preferred mode:Automatic

☐ Disable acceleration for binary translation

☒ Virtualize Intel VT-x/EPT or AMD-V/RVI

☒ Virtualize CPU performance counters

I used this solution after I saw similar issue [here](#).



1



mydockergit closed this on 20 Mar 2019



mydockergit mentioned this issue on 20 Mar 2019

nested virt: kvm crash "kvm_put_msrs: Assertion `ret == cpu->kvm_msr_buf->nmsrs' failed." kubernetes/minikube#2968

Open



VitalyVo commented on 23 Aug 2019

Thanks!



eyvindax commented on 31 Jan

thaks



dkarakas1 commented on 23 Mar

This isn't actually resolved. All that's offered is a workaround.

Minishift shouldn't impose cpu performance counters if that's what's happening here. The workaround is insufficient for some users. Specifically, when an ESXi cluster is configured for Enhanced vMotion Compatibility (aka EVC), CPU performance counters are not supported. As such, the *workaround* offered above is insufficient and Minishift is unable to start.

While its unlikely I'll be able to convince my organization to stop using EVC as its a useful and necessary feature for our environment, I might be able to convince this project (you) to make cpu counters more forgiving. Bottom line is that ESXi + vMotion customers are unable to install minishift guests, which makes me sad.

Please consider reopening this issue and addressing it more completely.



grossmj mentioned this issue on 5 Jun

MSR 0xe1 to 0x0 / `ret == cpu->kvm_msr_buf->nmsrs' failed. GNS3/gns3-server#1774

Closed