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Go version: go1.6.3 Git commit: 23cf638

Built: Thu Aug 18 05:31:15 2016

OS/Arch: linux/arm

pi@pi2swarm1:~ \$ cat /etc/issue Raspbian GNU/Linux 8 \n \l

pi@pi2swarm1:∼ \$ uname -a Linux pi2swarm1 4.4.11-v7+ #888 SMP Mon May 23 20:10:33 BST 2016 armv7l GNU/Linux

pi@pi2swarm1:~ \$

```
$ docker info
Containers: 2
 Running: 2
 Paused: 0
Stopped: 0
Images: 27
Server Version: 1.12.1
Storage Driver: overlay
Backing Filesystem: extfs
Logging Driver: json-file
Cgroup Driver: cgroupfs
Plugins:
 Volume: local
Network: bridge host null overlay
Swarm: active
NodeID: 7725832n2rsj1e39edrb02nsr
 Is Manager: true
 ClusterID: bf29ss6elcv9xy866z2pcwymf
 Managers: 3
Nodes: 7
 Orchestration:
  Task History Retention Limit: 5
 Snapshot Interval: 10000
 Heartbeat Tick: 1
 Election Tick: 3
 Dispatcher:
 Heartbeat Period: 5 seconds
 CA Configuration:
 Expiry Duration: 3 months
Node Address: 192.168.0.54
Runtimes: runc
Default Runtime: runc
Security Options:
Kernel Version: 4.4.11-v7+
Operating System: Raspbian GNU/Linux 8 (jessie)
OSType: linux
Architecture: armv7l
CPUs: 4
Total Memory: 925.5 MiB
Name: pi2swarm1
ID: XMTN:LXMA:MUKR:WDLH:A0Q5:QSZR:S0KF:6MT6:KPDW:AK04:BIDQ:4HHG
Docker Root Dir: /var/lib/docker
Debug Mode (client): false
Debug Mode (server): false
Username: alexellis2
Registry: https://index.docker.io/v1/
WARNING: No swap limit support
WARNING: No kernel memory limit support
WARNING: No cpu cfs quota support
WARNING: No cpu cfs period support
WARNING: No cpuset support
Insecure Registries:
 127.0.0.0/8
```



GordonTheTurtle added the version/1.12 label on Aug 20, 2016



ManoMarks commented on Aug 20, 2016



I was able to reproduce the problem. However, using the wan0 address I was able to access. pi@raspberrypi:~ \$ curl 192.168.86.104:3000 Hellopi@raspberrypi:~ \$

when I originally init'd the swarm it gave the message that used the wan0 address: docker swarm join $\,$

--token *sometoken* 192.168.86.104:2377



alexellis commented on Aug 20, 2016 • edited



Thanks for looking into this @ManoMarks . I have done a docker leave on the first Pi which was the swarm leader. I then noted the ethernet address of the new swarm it created on eth0 - it gave connection refused initially and then worked for a single host (I guess the container was still starting)

When I join a single worker then scale to two replicas I get the error on a round robin basis. Hmm I doing something wrong here?

Summary: A single manager works on its own, when > 1 node exists in the swarm: routing error.

```
pi@pi2swarm1:~ $ docker service scale hello=2
hello scaled to 2
pi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
curl: (7) Failed to connect to 192.168.0.54 port 3000: No route to host
pi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
Hellopi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
curl: (7) Failed to connect to 192.168.0.54 port 3000: No route to host
pi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
Hellopi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
curl: (7) Failed to connect to 192.168.0.54 port 3000: No route to host
pi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
Hellopi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
curl: (7) Failed to connect to 192.168.0.54 port 3000: No route to host
pi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
Hellopi@pi2swarm1:~ $ curl -4 http://192.168.0.54:3000
curl: (7) Failed to connect to 192.168.0.54 port 3000: No route to host
pi@pi2swarm1:~ $
```

Diagnostics:

```
pi@pi2swarm1:∼ $ docker service ls
             NAME REPLICAS IMAGE
                                                                  COMMAND
7apmfme3i6fo hello 2/2
                              alexellis2/arm-alpinehello:latest
pi@pi2swarm1:∼ $ docker service ps hello
                           NAME
                                   IMAGE
                                                                       NODE
                                                                                  DESIRED S
3dekmrc17dp0rpapmffeigxqi hello.1 alexellis2/arm-alpinehello:latest pi2swarm1
                                                                                  Running
7qtx18kyacgiknt6hwokpsnat hello.2 alexellis2/arm-alpinehello:latest pi2swarm2
                                                                                  Running
docker service inspect hello
   {
        "ID": "7gpmfme3i6fokgnqlgi6jnc8j",
        "Version": {
            "Index": 25
        "CreatedAt": "2016-08-20T07:33:56.317634185Z",
        "UpdatedAt": "2016-08-20T07:38:56.091576739Z",
        "Spec": {
            "Name": "hello",
            "TaskTemplate": {
                "ContainerSpec": {
                    "Image": "alexellis2/arm-alpinehello:latest"
                }.
                "Resources": {
                    "Limits": {},
                    "Reservations": {}
                "RestartPolicy": {
                    "Condition": "any",
                    "MaxAttempts": 0
                "Placement": {}
            },
            "Mode": {
                "Replicated": {
                    "Replicas": 2
            "UpdateConfig": {
                "Parallelism": 1,
                "FailureAction": "pause"
            "EndpointSpec": {
                "Mode": "vip",
                "Ports": [
                    {
                        "Protocol": "tcp",
                        "TargetPort": 3000,
                        "PublishedPort": 3000
                    }
                1
            }
        "Endpoint": {
            "Spec": {
                "Mode": "vip",
                "Ports": [
                    {
                        "Protocol": "tcp",
                        "TargetPort": 3000,
                        "PublishedPort": 3000
```

```
"Ports": [
                {
                     "Protocol": "tcp",
                    "TargetPort": 3000,
                    "PublishedPort": 3000
            "VirtualIPs": [
                {
                    "NetworkID": "79fwvv34c6di92phd5fwid8w4",
                    "Addr": "10.255.0.4/16"
            1
        }.
        "UpdateStatus": {
            "StartedAt": "0001-01-01T00:00:00Z",
            "CompletedAt": "0001-01-01T00:00:00Z"
   }
]
```



DJBnjack commented on Aug 22, 2016 • edited



I am having the same problems, with a single manager in a 3-node swarm - the manager is set to drain.

Connecting to localhost:port only works for the node the container is running on.



alexellis commented on Aug 22, 2016





Can you try updating the docker.service file to add a --debug flag? See if you get errors. @DJBnjack



alexellis commented on Aug 22, 2016





1st use-case is as documented above is broken on Raspbian and Arch Linux but not Hypriot - start a web service and scale it over > 1 node then try to curl it through the manager. You will get no route to host.

2nd broken use-case (on Raspbian and Hypriot and Arch Linux):

Intercontainer communication:

```
$ docker network create --driver overlay armnet
$ docker service create --replicas=1 --network=armnet --name redis alexellis2/redis-arm:v6
$ docker service create --name counter --replicas=5 --network=armnet --publish 3000:3000 al
```



ManoMarks commented on Aug 22, 2016



Are you trying Raspbian Jesse Lite and Raspbian Jesse?

On Sun, Aug 21, 2016 at 11:55 AM, Alex Ellis notifications@github.com wrote:

1st use-case is as documented above is broken on Raspbian and Arch Linux but not Hypriot - start a web service and scale it over > 1 node then try to curl it through the manager. You will get no route to host.

2nd broken use-case (on Raspbian and Hypriot and Arch Linux):

Intercontainer communication:

- \$ docker network create --driver overlay armnet
- \$ docker service create --replicas=1 --network=armnet --name redis alexellis2/redis-arm:v6
- \$ docker service create --name counter --replicas=5 --network=armnet --publish 3000:3000 alexellis2/arm_redis_counter

You are receiving this because you were mentioned. Reply to this email directly, view it on GitHub docker#25892 (comment), or mute the thread https://github.com/notifications/unsubscribe-auth/AAG8v6dybAueql1Z5-SbzpsDP17XZ-Nbks5qiJ8rqaJpZM4Jo4 T + (00)



DJBnjack commented on Aug 22, 2016 • edited



@alexellis - my bad, did not notice this was an open issue for ARM and not in general. I am running docker on x86 machines

My problem seemed to have been that the services were killed/created too fast: waiting 30 seconds after killing a service before re-creating it seems to be a working work-around for me now.



ManoMarks commented on Aug 22, 2016



I've been able to reproduce the issue with Raspbian Jesse. Single node works, two or more doesn't work.



alexellis commented on Aug 22, 2016 • edited





On the worker and the manager, when I "join" I get an error:

Failed to create testvxlan interface: error creating vxlan interface: operation not supported

Worker:

ERRO[0012] Error getting node eefxmubv8v1ad8bgb5wiib729: This node is not a swarm manager. ERRO[0012] Handler for GET /v1.24/nodes/eefxmubv8v1ad8bgb5wiib729 returned error: This node This node joined a swarm as a worker. pi@pi2swarm2:~ \$ DEBU[0012] Assigning addresses for endpoint ingress-endpoint's interface o DEBU[0012] RequestAddress(LocalDefault/10.255.0.0/16, 10.255.0.4, map[]) DEBU[0012] Assigning addresses for endpoint ingress-endpoint's interface on network ingress ERRO[0012] Failed to create testvxlan interface: error creating vxlan interface: operation DEBU[0012] checkEncryption(c5nmn7f, 192.168.0.54, 256, false) peerdbupdate in sandbox failed for ip 10.255.0.3 and mac 02:42:0a:ff:00:03: could not add n INFO[0000] Firewalld running: false DEBU[0013] Assigning addresses for endpoint gateway_ingress-sbox's interface on network doc DEBU[0013] RequestAddress(LocalDefault/172.18.0.0/16, <nil>, map[]) DEBU[0013] Assigning addresses for endpoint gateway_ingress-sbox's interface on network doc DEBU[0013] Programming external connectivity on endpoint gateway_ingress-sbox (ff9eaa303e24 DEBU[0024] 2016/08/22 07:58:40 [DEBUG] memberlist: TCP connection from=192.168.0.54:36420 DEBU[0024] pi2swarm2: Initiating bulk sync for networks [c5nmn7f23qrocnja87xs2lzj2] with no DEBU[0034] 2016/08/22 07:58:50 [DEBUG] memberlist: TCP connection from=192.168.0.54:36422

Manager:

=(*Server).updateCluster module=ca

DEBU[0011] Assigning addresses for endpoint ingress-endpoint's interface on network ingress

DEBU[0011] RequestAddress(LocalDefault/10.255.0.0/16, 10.255.0.3, map[])

DEBU[0011] Assigning addresses for endpoint ingress-endpoint's interface on network ingress

ERRO[0011] Failed to create testvxlan interface: error creating vxlan interface: operation

DEBU[0012] checkEncryption(c5nmn7f, <nil>, 256, true)



justincormack commented on Aug 22, 2016





@alexellis looks like your kernel might not have vxlan support? The check-config script might help diagnose https://raw.githubusercontent.com/docker/docker/master/contrib/check-config.sh



DieterReuter commented on Aug 22, 2016 • edited





@justincormack you are absolutely right, this is a standard Raspbian Jessie OS and this kernel did not have all the recommended Docker settings included, only the mandatory ones. In this case not all the features are working, e.g. VXLAN is not included for sure!



alexellis commented on Aug 22, 2016

Contributor + (00)

@justincormack That is presumably going to stop swarmmode from functioning fully?

@DieterReuter even with HypriotOS (after reflashing 3x Model 3 Pis) the third test scenario did not work for me. If you could find time to repo it would be appreciated.

I've summarised the basic test scenarios I wanted to see working to be able to launch Mano's swarm visualizer tool: https://github.com/alexellis/swarmmode-tests/tree/master/arm



alexellis commented on Aug 22, 2016

Contributor







warning: /proc/config.gz does not exist, searching other paths for kernel config ... error: cannot find kernel config

try running this script again, specifying the kernel config: CONFIG=/path/to/kernel/.config bash or bash /path/to/kernel/.config



justincormack commented on Aug 23, 2016 • edited

Contributor



@alexellis not sure where the kernel config is (I wish people would configure /proc/config.gz!). modprobe vxlan should indicate if you have it, unless it is built in (unlikely).

I think this may be the kernel config being used, maybe someone could verify https://github.com/raspberrypi/linux/blob/rpi-4.4.y/arch/arm/configs/bcm2709_defconfig or this

https://github.com/raspberrypi/linux/blob/rpi-4.4.y/arch/arm/configs/bcmrpi_defconfig



iustincormack referenced this issue in raspberrypi/linux on Aug 23, 2016

please enable CONFIG_VXLAN #1614

(!) Closed



popcornmix commented on Aug 23, 2016







sudo modprobe configs zcat /proc/config.gz

Your link to bcm2709_defconfig is correct.



justincormack commented on Aug 24, 2016





The vxlan module has been included in the 4.4.19 kernel update.

2



ManoMarks commented on Aug 24, 2016



I tested it using @alexellis 's test suite and it worked for me after running rpi-update and rebooting. Thanks @justincormack

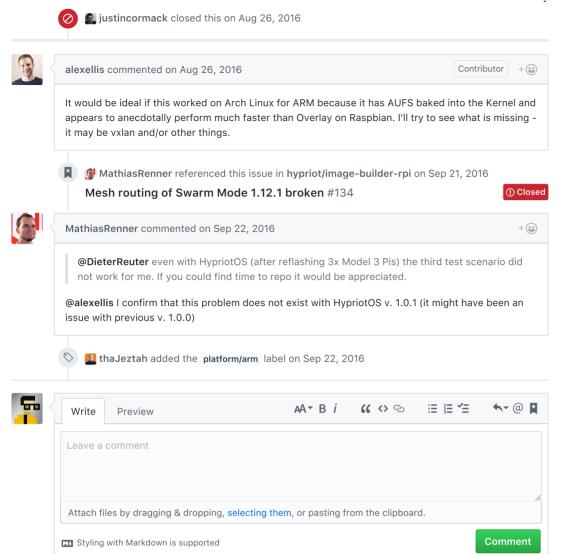


justincormack commented on Aug 26, 2016

Contributor



I am going to close this now it is resolved - let us know if anyone has any more issues.



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