

Java 获取本地主机 UnknownHostException

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问题描述

启动 DubboX 应用时报错:

```
[WARN ]-[2016-08-02 10:47:15]-[com.alibaba.dubbo.config.AbstractConfig:305]:[DUBBO] my_ost_name: my_host_name: unknown error, dubbo version: 2.8.4, current host: 127.0.0.1
java.net.UnknownHostException: my_host_name: my_host_name: unknown error
    at java.net.InetAddress.getLocalHost(InetAddress.java:1505)
    at com.alibaba.dubbo.config.ServiceConfig.doExportUrlsFor1Protocol(ServiceConfig.java:
03)
    at com.alibaba.dubbo.config.ServiceConfig.doExportUrls(ServiceConfig.java:285)
    at com.alibaba.dubbo.config.ServiceConfig.doExport(ServiceConfig.java:246)
    at com.alibaba.dubbo.config.ServiceConfig.export(ServiceConfig.java:145)
    at com.alibaba.dubbo.config.spring.ServiceBean.onApplicationEvent(ServiceBean.java:110

    at org.springframework.context.event.SimpleApplicationEventMulticaster.multicastEvent(impleApplicationEventMulticaster.java:96)
    at org.springframework.context.support.AbstractApplicationContext.publishEvent(AbstractApplicationContext.java:334)
    at org.springframework.context.support.AbstractApplicationContext.finishRefresh(AbstractApplicationContext.java:948)
    at org.springframework.context.support.AbstractApplicationContext.refresh(AbstractApplicationContext.java:482)
    at org.springframework.context.support.ClassPathXmlApplicationContext.<init>(ClassPathXmlApplicationContext.java:139)
    at org.springframework.context.support.ClassPathXmlApplicationContext.<init>(ClassPathXmlApplicationContext.java:93)
    at com.alibaba.dubbo.container.spring.SpringContainer.start(SpringContainer.java:50)
    at com.alibaba.dubbo.container.Main.main(Main.java:80)
    at net.xxx.xxx.Server.main(Server.java:33)
Caused by: java.net.UnknownHostException: my_host_name: unknown error
    at java.net.Inet4AddressImpl.lookupAllHostAddr(Native Method)
    at java.net.InetAddress$2.lookupAllHostAddr(InetAddress.java:928)
    at java.net.InetAddress.getAddressesFromNameService(InetAddress.java:1323)
    at java.net.InetAddress.getLocalHost(InetAddress.java:1500)
    ... 14 more
```

排查解决

在这台服务器上执行 `hostname` 命令, 正常返回了主机名, 然后 ping 这个主机名报错: `ping: unknown host my_host_name`, 使用 `hostname -i` (通过主机名解析 IP 地址) 时也会报错:

- CentOS: `hostname: Unknown host`
- Ubuntu: `hostname: Name or service not known`

该问题是由于通过主机名解析不到 IP 引起的, 前段时间曾经修改过主机名, 但是没改全: 除了执行 `hostname my_host_name` 外还需要执行:

- CentOS: 需要修改 `/etc/sysconfig/network` 中的 `HOSTNAME` 配置项
- Ubuntu: 需要修改 `/etc/hostname`

改完后重启就好了 😊，如果不方便重启，也可以把新的机名先加在 `/etc/hosts` 里面，通过“本地 DNS”进行解析吧。