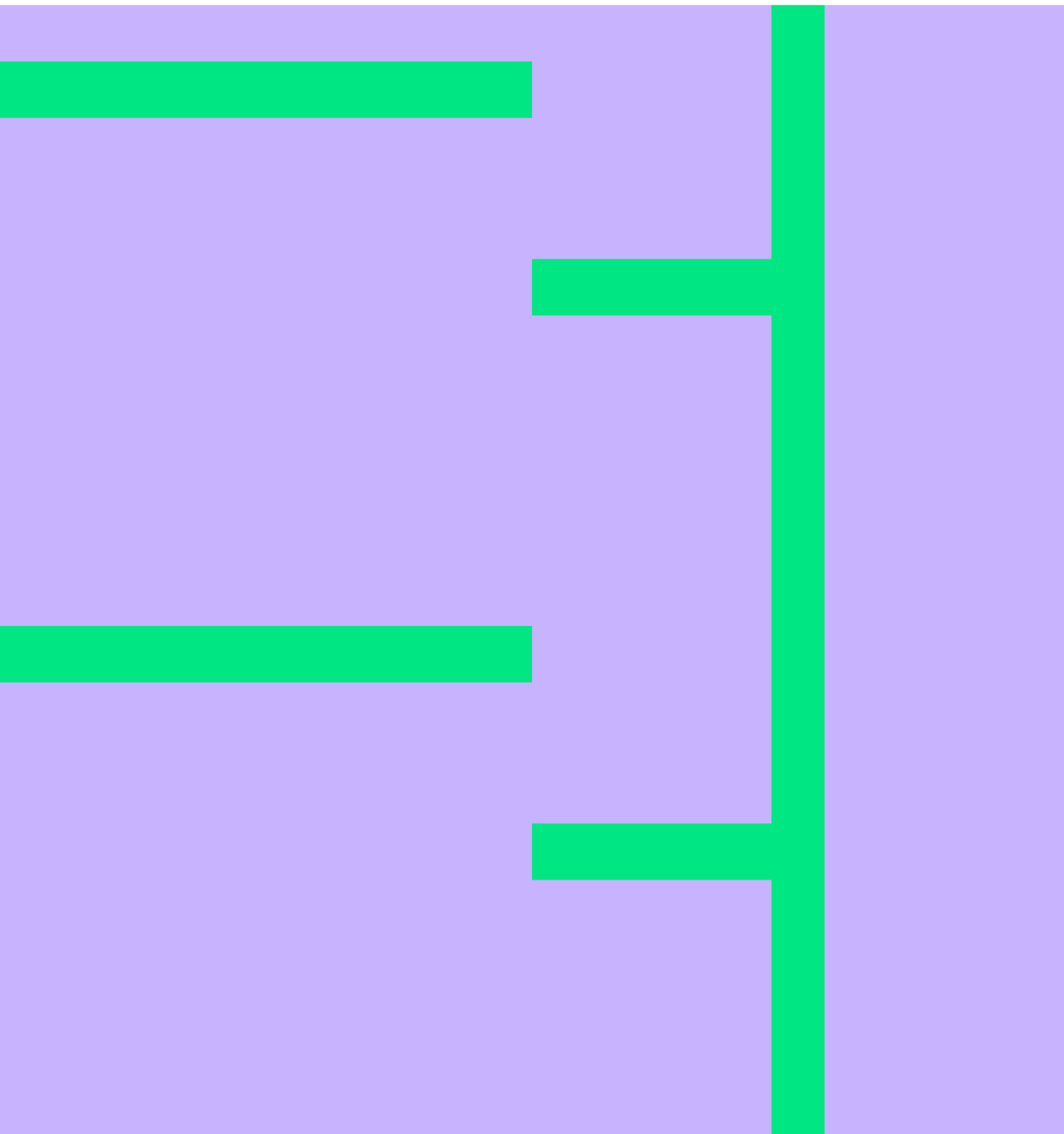


# 问题

Subtitle

2022/10/30





# Table of Contents

问题 ..... 1

IP分配 ..... 1

VLAN不足 ..... 2



# 问题

## IP分配

- 家庭路由器，Shared网络下，模板的网卡是DHCP时，可以获取到IP地址，那么是谁负责分配的IP，即DHCP服务器是谁？是家里的路由器？还是CloudStack里的虚拟路由器？
- DHCP分配的IP是否有变化的风险？是否需要设置为static？有什么手段可以设置为static？

Q群回答：

acs<sup>1)</sup>本身就是dhcp的，通过mac固定了ip地址，除非你通过acs改变ip或者网内有其他dhcp服务器干扰，否则不会有问题

参见：[stackoverflow](#)，使用 [lease block](#)

```
fixed-address ip-address;
```

The fixed-address statement is used to set the ip address of a particular lease. This is required for all lease statements. The IP address must be specified as a dotted quad (e.g., 12.34.56.78).

查看 cloudstack dhcp 的配置

```
# ps aux |grep client
root    766  0.0  0.4 102904 2360 ?        Ss   05:15   0:00 /sbin/dhclient -1 -q -lf
/var/lib/dhclient/dhclient--eth0.lease -pf /var/run/dhclient-eth0.pid -H vm-centos eth0
```

```
# cat /var/lib/dhclient/dhclient--eth0.lease
lease {
  interface "eth0";
  fixed-address 192.168.0.163;
  option subnet-mask 255.255.255.0;
  option dhcp-lease-time 86400;
  option routers 192.168.0.1;
  option dhcp-message-type 5;
  option dhcp-server-identifier 192.168.0.1;
  option domain-name-servers 192.168.0.1;
  option dhcp-renewal-time 43200;
  option dhcp-rebinding-time 75600;
  renew 6 2022/09/03 15:33:00;
  rebind 0 2022/09/04 00:58:59;
  expire 0 2022/09/04 03:58:59;
}
lease {
  interface "eth0";
  fixed-address 192.168.0.163;
  option subnet-mask 255.255.255.0;
  option routers 192.168.0.1;
  option dhcp-lease-time 86400;
```

```
option dhcp-message-type 5;
option domain-name-servers 192.168.0.1;
option dhcp-server-identifier 192.168.0.1;
option dhcp-renewal-time 43200;
option dhcp-rebinding-time 75600;
renew 6 2022/09/03 16:17:38;
rebind 0 2022/09/04 02:15:01;
expire 0 2022/09/04 05:15:01;
}
```

## VLAN不足

没有为来宾网络设置vlan范围，创建使用 隔离网络 虚机的时候，报错：

```
Unable to start a VM due to insufficient capacity
```

比较坑的是根本原因却是一个INFO级别的错误，Unable to allocate vnet as a part of network Ntwk, 很容易忽略掉：

```
2022-09-02 16:46:59,638 INFO [c.c.v.VirtualMachineManagerImpl] (Work-Job-
Executor-1:ctx-271177ad job-103/job-104 ctx-13e88e31) (logid:ace71849) Insufficient capacity
com.cloud.exception.InsufficientVirtualNetworkCapacityException: Unable to allocate vnet as a part
of network Ntwk[205|Guest[8] implement Scope=interface com.cloud.dc.DataCenter; id=1
    at com.cloud.network.guru.GuestNetworkGuru.allocateVnet(GuestNetworkGuru.java:298)
    at com.cloud.network.guru.GuestNetworkGuru.implement(GuestNetworkGuru.java:327)
    at
com.cloud.network.guru.ExternalGuestNetworkGuru.implement(ExternalGuestNetworkGuru.java:136
)
    at
org.apache.cloudstack.engine.orchestration.NetworkOrchestrator.implementNetwork(NetworkOrches
trator.java:1329)
    at
org.apache.cloudstack.engine.orchestration.NetworkOrchestrator.implementNetwork(NetworkOrches
trator.java:1189)
    at
org.apache.cloudstack.engine.orchestration.NetworkOrchestrator.prepare(NetworkOrchestrator.java:
1863)
    at
com.cloud.vm.VirtualMachineManagerImpl.orchestrateStart(VirtualMachineManagerImpl.java:1199)
    at
com.cloud.vm.VirtualMachineManagerImpl.orchestrateStart(VirtualMachineManagerImpl.java:5853)
    at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.
java:43)
    at java.base/java.lang.reflect.Method.invoke(Method.java:566)
```

```
    at com.cloud.vm.VmWorkJobHandlerProxy.handleVmWorkJob(VmWorkJobHandlerProxy.java:107)
    at
com.cloud.vm.VirtualMachineManagerImpl.handleVmWorkJob(VirtualMachineManagerImpl.java:6018
)
    at com.cloud.vm.VmWorkJobDispatcher.runJob(VmWorkJobDispatcher.java:102)
    at
org.apache.cloudstack.framework.jobs.impl.AsyncJobManagerImpl$5.runInContext(AsyncJobManager
Impl.java:620)
    at
org.apache.cloudstack.managed.context.ManagedContextRunnable$1.run(ManagedContextRunnabl
e.java:48)
    at
org.apache.cloudstack.managed.context.impl.DefaultManagedContext$1.call(DefaultManagedConte
xt.java:55)
    at
org.apache.cloudstack.managed.context.impl.DefaultManagedContext.callWithContext(DefaultMana
gedContext.java:102)
    at
org.apache.cloudstack.managed.context.impl.DefaultManagedContext.runWithContext(DefaultMana
gedContext.java:52)
```

改用shared网络即可创建虚拟机。

<sup>1)</sup>

大概是apache cloudstack缩写

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