



链滴

Eureka 1.1.4 版本 datacenter 的一个重要 bug

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最近项目中在使用eureka作为服务发现框架，但是升级到1.1.4版本后，出现了启动eureka，每一分钟就上线下线一次的情况

github上已经向开发团队提交了bug: <https://github.com/spring-cloud/spring-cloud-netflix/issues/1321>

There seems to be a problem with public EIP address association not being correctly updated when a new AWS server starts and has a new Eureka server starting with it. When the server starts up, it correctly registers itself


```
2016-09-06 15:55:29.040 WARN 3399 --- [Thread-10] com.netflix.eureka.aws.EIPManager : The selected EIP 54.67.102.122 is associated with another instance i-0666b39 according to AWS, hence skipping this
```

```
2016-09-06 15:55:29.628 INFO 3399 --- [Thread-10] com.netflix.eureka.aws.EIPManager :
```

Associated i-25f11391 running in zone: us-west-1c to elastic IP: X.X.X.X

But, every minute after that we get the following log entry:

```
2016-09-06 16:24:55.568 INFO 3399 --- [Eureka-EIPBinder] c.n.e.r.PeerAwareInstanceRegistryImpl : Got 1 instances from neighboring DS node
```

```
2016-09-06 16:24:55.568 INFO 3399 --- [Eureka-EIPBinder] c.n.e.r.PeerAwareInstanceRegistryImpl : Renew threshold is: 1
```

```
2016-09-06 16:24:55.568 INFO 3399 --- [Eureka-EIPBinder] c.n.e.r.PeerAwareInstanceRegistryImpl : Priming AWS connections for all replicas..
```

```
2016-09-06 16:24:55.568 INFO 3399 --- [Eureka-EIPBinder] c.n.e.r.PeerAwareInstanceRegistryImpl : No peers needed to prime.
```

```
2016-09-06 16:24:55.568 INFO 3399 --- [Eureka-EIPBinder] c.n.e.r.PeerAwareInstanceRegistryImpl : Changing status to UP
```

```
2016-09-06 16:24:55.713 WARN 3399 --- [Eureka-EIPBinder] com.netflix.eureka.aws.EIPManager : The selected EIP X.X.X.X is associated with another instance i-0666b391 according to WS, hence skipping this
```

```
2016-09-06 16:24:55.804 INFO 3399 --- [Eureka-EIPBinder] com.netflix.eureka.aws.EIPManager
```

Debugging this, the call to `isEIPBound()` is always failing, and this is because the following is always `null`:

```
String myPublicIP = ((AmazonInfo) myInfo.getDataCenterInfo()).get(MetaDataKey.publicIpV4);
```

It looks like there is stale datacenterinfo and it never gets refreshed (from what I can tell) and there are no settings available to have it refreshed automatically.

The odd side effect of this, and we noticed, is that the registry continually gets wiped, a reset causing obvious potential issues down stream for our clients.

有热心网友给出了临时解决方案:

```
<code>
```

```
@Configuration
```

```
@Slf4j
```

```
@ConditionalOnAwsCloudEnvironment
```

```
@EnableContextInstanceData
```

```
@Import({UtilAutoConfiguration.class})
```

```
@AutoConfigureAfter({UtilAutoConfiguration.class})
```

```
<span class="pl-k">public</span> <span class="pl-k">class</span> <span class="pl-en">
wsInstanceConfig</span> {
```

```
<span class="pl-k">@Value</span>( <span class="pl-s"><span class="pl-pds">"</span>${s
rver.port:${SERVER_PORT:${PORT:8080}}</span></span> </span> </span> </span>
<span class="pl-k">int</span> nonSecurePort;
```

```
<span class="pl-k">@Value</span>( <span class="pl-s"><span class="pl-pds">"</span>${
anagement.port:${MANAGEMENT_PORT:${server.port:${SERVER_PORT:${PORT:8080}}}}</span></span> </span> </span> </span>
<span class="pl-k">int</span> managementPort;
```

```
<span class="pl-k">@Value</span>( <span class="pl-s"><span class="pl-pds">"</span>${
ureka.instance.hostname:${EUREKA_INSTANCE_HOSTNAME:}}</span></span> </span> </span> </span>
<span class="pl-k">String</span> hostname;
```

```
<span class="pl-k">@Autowired</span>
<span class="pl-k">ConfigurableEnvironment</span> env;
```

```
<span class="pl-k">@Bean</span>
<span class="pl-k">public</span> <span class="pl-smi">EurekaInstanceConfigBean</span>
<span class="pl-en">eurekaInstanceConfigBean</span>( <span class="pl-smi">InetUtils</sp
n> <span class="pl-v">utils</span> ) {
    log<span class="pl-k">.</span></span>info( <span class="pl-s"><span class="pl-pds">"</span>
etting AmazonInfo on EurekaInstanceConfigBean</span></span> </span> </span> </span>);
    <span class="pl-k">final</span> <span class="pl-smi">EurekaInstanceConfigBean</span>
instance <span class="pl-k">=</span> <span class="pl-k">new</span> <span class="pl-smi">EurekaInstanceConfigBean</span>(utils) {
```

```
    <span class="pl-k">@Scheduled</span>( <span class="pl-c1">initialDelay</span> <span class="pl-c1">30000L</span>, <span class="pl-c1">fixedRate</span>
<span class="pl-c1">30000L</span> )
    <span class="pl-k">public</span> <span class="pl-k">void</span> <span class="pl-en">refreshInfo</span>() {
        log<span class="pl-k">.</span></span>debug( <span class="pl-s"><span class="pl-pds">"</span>
Checking datacenter info changes</span></span> </span> </span> </span>);
        <span class="pl-smi">AmazonInfo</span> newInfo <span class="pl-k">=</span> <span class="pl-smi">AmazonInfo</span>
<span class="pl-smi">AmazonInfo</span> <span class="pl-k">.</span></span>newBuilder() <span class="pl-k">.</span></span>autoBuild( <span class="pl-s"><span class="pl-pds">"</span>eureka</span></span> </span> </span> </span>);
        <span class="pl-k">if</span> ( <span class="pl-k">!</span> <span class="pl-v">this</span>
<span class="pl-k">.</span></span>getDataCenterInfo() <span class="pl-k">.</span></span>equals(newInfo)) {
            log<span class="pl-k">.</span></span>info( <span class="pl-s"><span class="pl-pds">"</span>
Updating datacenterInfo to {}</span></span> </span> </span> </span>, newInfo);
            (( <span class="pl-smi">AmazonInfo</span> ) <span class="pl-v">this</span> <span class="pl-k">.</span></span>
getDataCenterInfo() <span class="pl-k">.</span></span>setMetadata(newInfo
<span class="pl-k">.</span></span>getMetadata());
        }
    }
}
```

```

    <span class="pl-k">private</span> <span class="pl-smi">AmazonInfo</span> <span class="pl-en">getAmazonInfo</span>() {
        <span class="pl-k">return</span> (<span class="pl-smi">AmazonInfo</span>) get
ataCenterInfo();
    }

    <span class="pl-k">@Override</span>
    <span class="pl-k">public</span> <span class="pl-smi">String</span> <span class="pl-en">getHostname</span>() {
        <span class="pl-smi">AmazonInfo</span> info <span class="pl-k">=</span> getA
amazonInfo();
        <span class="pl-k">final</span> <span class="pl-smi">String</span> publicHostna
e <span class="pl-k">=</span> info.<span class="pl-k">.</span>get(<span class="pl-smi">AmazonInfo</span><span class="pl-k">.</span><span class="pl-smi">MetaDataKey</span><span class="pl-k">.</span>publicHostna
me);
        <span class="pl-k">return</span> <span class="pl-v">this</span><span class="pl-k">.</span>isPreferIpAddress() <span class="pl-k">?</span>
info.<span class="pl-k">.</span>get(<span class="pl-smi">AmazonInfo</span><span class="pl-k">.</span><span class="pl-smi">MetaDataKey</span><span class="pl-k">.</span>localIpv4) <span class="pl-k">:</span>
publicHostname <span class="pl-k">==</span> <span class="pl-c1">null</span>
<span class="pl-k">?</span>
info.<span class="pl-k">.</span>get(<span class="pl-smi">AmazonInfo</span><span class="pl-k">.</span><span class="pl-smi">MetaDataKey</span><span class="pl-k">.</span>localHostname) <span class="pl-k">:</span> publicHostname;
    }

    <span class="pl-k">@Override</span>
    <span class="pl-k">public</span> <span class="pl-smi">String</span> <span class="pl-en">getHostName</span>(<span class="pl-k">final</span> <span class="pl-k">boolean
</span> <span class="pl-v">refresh</span>) {
        <span class="pl-k">return</span> getHostname();
    }

    <span class="pl-k">@Override</span>
    <span class="pl-k">public</span> <span class="pl-smi">String</span> <span class="pl-en">getHomePageUrl</span>() {
        <span class="pl-k">return</span> <span class="pl-v">super</span><span class="pl-k">.</span>getHomePageUrl();
    }

    <span class="pl-k">@Override</span>
    <span class="pl-k">public</span> <span class="pl-smi">String</span> <span class="pl-en">getStatusPageUrl</span>() {
        <span class="pl-smi">String</span> scheme <span class="pl-k">=</span> getSecu
ePortEnabled() <span class="pl-k">?</span> <span class="pl-s"><span class="pl-pds">"</span>https<span class="pl-pds">"</span></span> <span class="pl-k">:</span> <span class="pl-s"><span class="pl-pds">"</span>http<span class="pl-pds">"</span></span>;
        <span class="pl-k">return</span> scheme <span class="pl-k">+</span> <span class="pl-s"><span class="pl-pds">"</span>://<span class="pl-pds">"</span></span> <span class="pl-k">+</span> getHostname() <span class="pl-k">+</span> <span class="pl-s"><span class="pl-pds">"</span><span class="pl-pds">"</span></span>:<span class="pl-pds">"</span></span>
        <span class="pl-k">+</span> managementPort <span class="pl-k">+</span> ge

```

```

StatusPageUrlPath();
    }

    <span class="pl-k">@Override</span>
    <span class="pl-k">public</span> <span class="pl-smi">String</span> <span class="l-en">getHealthCheckUrl</span>() {
        <span class="pl-smi">String</span> scheme <span class="pl-k">= </span> getSecurePortEnabled() <span class="pl-k">? </span> <span class="pl-s"><span class="pl-pds">"</span></span>https<span class="pl-pds">"</span></span> <span class="pl-k">:</span> <span class="pl-s"><span class="pl-pds">"</span></span>http<span class="pl-pds">"</span></span> <span class="pl-k">+ </span> <span class="pl-s"><span class="pl-pds">"</span></span>://<span class="pl-pds">"</span></span> <span class="pl-k">+ </span> getHostname() <span class="pl-k">+ </span> <span class="pl-s"><span class="pl-pds">"</span></span>:<span class="pl-pds">"</span></span> <span class="pl-k">+ </span> managementPort <span class="pl-k">+ </span> getHealthCheckUrlPath();
    }
};
<span class="pl-smi">AmazonInfo</span> info <span class="pl-k">= </span> <span class="pl-smi">AmazonInfo</span><span class="pl-k">.</span> <span class="pl-smi">Builder</span><span class="pl-k">.</span>newBuilder() <span class="pl-k">.</span>autoBuild(<span class="pl-s"><span class="pl-pds">"</span></span>eureka<span class="pl-pds">"</span></span>);
log<span class="pl-k">.</span>info(<span class="pl-s"><span class="pl-pds">"</span></span>info: {}<span class="pl-pds">"</span></span>, info);
instance<span class="pl-k">.</span>setDataCenterInfo(info);
instance<span class="pl-k">.</span>setNonSecurePort(<span class="pl-v">this</span><span class="pl-k">.</span>nonSecurePort);
instance<span class="pl-k">.</span>setInstanceId(getDefaultInstanceId(<span class="pl-v">this</span><span class="pl-k">.</span>env));
<span class="pl-k">if </span> (<span class="pl-v">this</span><span class="pl-k">.</span>managementPort <span class="pl-k">!= </span> <span class="pl-v">this</span><span class="pl-k">.</span>nonSecurePort <span class="pl-k">&&</span> <span class="pl-v">this</span><span class="pl-k">.</span>managementPort <span class="pl-k">!= </span> <span class="pl-c1">0</span>) {
    <span class="pl-k">if </span> (<span class="pl-smi">StringUtils</span><span class="pl-k">.</span>hasText(<span class="pl-v">this</span><span class="pl-k">.</span>hostname)) {
        instance<span class="pl-k">.</span>setHostname(<span class="pl-v">this</span><span class="pl-k">.</span>hostname);
    }
}

<span class="pl-k">return</span> instance;
}
} </br /> </br /> </code> </pre>

```

netflix的贡献者已经在修复这个bug，预计下一个版本能解决：<https://github.com/Netflix/eureka/pull/843>