**December 2017**

<https://puppetlabs.zendesk.com/agent/tickets/27937>

Unresponsive mco agents that would only respond to mco pings and timeout otherwise. Intermittently occurring.

Changed ulimit and set nofile. Kel identified that the nofile settings were not set so we updated them per your recommendation and restarted the pe-activemq services and mcollective on our HUBs and Spokes.

nproc and nofile can limit the number of connections pe-activemq can accept, but they seem unlikely candidates for disrupting a connection that has already been established. We should pull the mcollective.log from an affected server node followed by the activemq.log from whichever broker node the server last reported "Connected to". Also get the time zones of each node so that the logs can be matched up.

Ulimits should produce some fairly visible errors in activemq.log around being unable to open a new file or create a new thread.

Also, since they're on 2016.4.2, there following issues are likely candidates for disrupting established server connections:

* <https://support.puppet.com/hc/en-us/articles/115000157213-KB-0161-ActiveMQ-becomes-unresponsive-in-Puppet-Enterprise-2016-4-3-and-earlier-2016-5-and-2017-1>
* <https://support.puppet.com/hc/en-us/articles/115000195013-KB-0160-Tune-ActiveMQ-timeouts-to-improve-MCollective-connection-reliability-in-Puppet-Enterprise-3-7-2-to-2017-2-x>
* <https://tickets.puppetlabs.com/browse/PA-1168> (can't be tuned around, fixed in PE 2016.4.6)

**August 2016**

<https://puppetlabs.zendesk.com/agent/tickets/21041>

Environment: Production

# Hubs: 2

# Spokes: 8

Issue: Hubs were not forwarding traffic from one spoke to another. Resulting in isolated spokes.

Resolution: Classified the ActiveMQ Hub, increased memory usage to 2800mb and manually removed the hub connectors.

Question: Was this configuration change implemented in other environments? Ticket only addresses the Production Stores environment.