PQL stands for Puppet Query Language

Much like SQL, it allows you to search a database and return raw data that is being stored

PQL is an easy to use syntax that acts as a wrapper for making REST API calls to the PuppetDB endpoint

**How do I use PQL?**

Examples Basic queries

|  |  |
| --- | --- |
| Certnames of nodes (inactive and active) | `puppet query "nodes[certname]{node\_state = 'inactive' or node\_state = 'active'}"` |
| Total number of nodes where an agent ran in the Production environment | puppet query "nodes[count()]{catalog\_environment = 'production'}" |
| The latest report for a node | puppet query "reports{latest\_report? = true and certname = ''}" |
| Return the certname of nodes that Have not checked into the master within the last hour | puppet query "reports[certname]{ latest\_report? = true and receive\_time < \"$(date -u -d'1 hours ago' '+%Y-%m-%dT%TZ')\"}" |
| Check the file resource managing of the PE license | puppet query "resources{title = '/etc/puppetlabs/license.key'}" |
| List all resources on a particular node | puppet query "resources[]{certname = ''}" |
| Return the: certname, timestamp, resource type, resource title, message and old and new values from events where the status of the event was success | puppet query "events[certname, timestamp, resource\_type, resource\_title, message, old\_value, new\_value]{latest\_report? = true and status='success'}" |
| List all events that occurred on a node between run that started at 9am on 14/08/18 Zulu Time and 11am on 14/08/18 Zulu Time | puppet query "events[]{certname = ‘$(puppet config print certname)’ and (run\_start\_time >= '2018-08-14T09:00:00Z' and run\_start\_time <= '2018-08-14T11:00:00Z')} " |
| Return the count of nodes where the osfamily is RedHat | puppet query "facts[count()]{name='osfamily' and value='RedHat'}" |
| Return the certnames of all nodes where the osfamily is RedHat | puppet query "facts[certname]{name='osfamily' and value='RedHat'}" |
| Return the certname of all nodes that are running Puppet version 5.5.3 | puppet query "facts[certname]{name='puppetversion' and value='5.5.3'}" |
| Return the certnames of nodes that have a specified class applied (The MCO class in this example) | puppet query "resources[certname]{type = 'Class' and title = Puppet\_enterprise::Mcollective::Service}" |