# Setting up Monasca Agent Check

* Install logstash:
  + requires java
    - sudo apt-get install default-jre
  + curl -O [https://download.elasticsearch.org/logstash/logstash/logstash-1.5.0.tar.gz](https://www.elastic.co/guide/en/logstash/current/getting-started-with-logstash.html)
  + tar -zxvf logstash-1.5.0.tar.gz
  + put cinderDiagnostics.conf in the logstash directory
* create files for logstash to write to:
  + make directory /var/log/cinder-diagnostics
  + make files
    - /var/log/cinder-diagnostics/errorlog1.txt
    - /var/log/cinder-diagnostics/errorlog2.txt
  + $ sudo chmod 777 /var/log/cinder-diagnostics/\*
* Put monasca agent files in the correct locations:

|  |  |
| --- | --- |
| cinderDiagnostics.py | /usr/lib/monasca/agent/custom\_checks.d/cinderDiagnostics.py |
| cinderDiagnostics.yaml | /etc/monasca/agent/conf.d/cinderDiagnostics.yaml |
| cinderDiagnostics.yaml | /usr/lib/monasca/agent/conf.d/cinderDiagnostics.yaml |

* Start logstash (from within logstash directory)
  + Bin/logstash –f cinderDiagnostics.conf
* Restart the monasca agent

## how it works

### Logstash

* Every time a line is added to one of the log files in the CinderDiagnostics.conf it goes through the filter.
* If it matches one of the patters in the grok section, it creates a JSON object with the fields log\_message, possible\_cause, name, comments, and uuid
* Each result is written as a single line to the two text files

### text files

* These act as a buffer between Logstash and the Monasca agent plugin
* There are two as protection against read/write conflicts

### monasca agent plugin

* Only runs when the Monasca agent tells it to (default is every 15 seconds)
* Creates metric dimensions for each unique (determined by UUID) line in the textfiles
* Clears the text files
  + Logstash will not show any error if the text files are deleted while it is running, but it will continue running without outputting its data anywhere. The text files can be edited, but not moved or deleted.

### monasca configuration file(s)

* Monasca agent check configuration files can contain instance variables.
  + We are storing the path to the text files as instance variables
* Even if you are not using instance variables, the configuration files must be present for the agent check to run