Symptom

One or more of these things:

* puppetdb postgres server fills up /opt
* postgres stops on puppetdb postgres server
* puppet runs on all clients fail with "Unable to connect to puppetdb server"
* Exceptions in /var/log/puppetlabs/puppetdb/puppetdb.log on the puppetmasters like "Protocol message contained an invalid tag (zero)"
* Full /opt filesystem on puppet servers

Resolution

A chain reaction of things has happened:

1. Postgres has run out of space and has shut down.
2. Puppetmasters cannot connect to postgres, and so they start queueing up puppet reports in files (in /opt/puppetlabs/server/data/puppetdb)
3. Puppetmasters eventually fill up /opt

To resolve this, start with the postgres server and work outward from there.

Fix the full filesystem problem on the postgres server, then restart postgres (service postgresql-9.4 restart). You may also need to restart puppetdb on that server (service puppetdb restart).

Now move out to the puppetmasters. If you are seeing the "Protocol message contained an invalid tag (zero)" message in /var/log/puppetlabs/puppetdb/puppetdb.log, then they have written bad data files (partial files when /opt filled) and you must remove them. Do this (from [this puppetlabs document](https://puppet.com/docs/puppetdb/4.2/trouble_kahadb_corruption.html)):

service puppetdb stop

cd /opt/puppetlabs/server/data/puppetdb

mv mq mq.old

service puppetdb start

# check /var/log/puppetlabs/puppetdb.log and see that it's working

rm -rf mq.old

Finally, run puppet on some client system (or one of the puppetmasters) and verify that it runs clean.