

Ganymede Technologies

Technologies

This page details the technologies used to build and manage Ganymede.

Python

Many of the scripts are written in Python, specifically, 2.x. The code is 95% or better PEP8 compliant.

Modules

Various modules are used. Modules explicitly installed (eg. not installed by default) are listed here.

- Bottle (bottlepy.org) v 0.12.8 (installed via pip)
- Bottle-MySQL (<https://pypi.python.org/pypi/bottle-mysql/0.2.2>) v 0.2.2 (installed via pip)
- MySQL-Python (<https://pypi.python.org/pypi/MySQL-python>) v 1.2.5 (installed via pip)
- PyMongo (<https://pypi.python.org/pypi/pymongo/3.0.3>) v 3.0.3 (install via pip)
- MySQL Python Connector (<http://dev.mysql.com/doc/connector-python/en/index.html>) v 2.0.4
- JSON (usually comes with the system Python)

Bash

A recent version of Bash with support for arrays is required. Most recent Linux environments have a sufficient version.

Programs

Various programs are used during execution of the Agent, Worker, Archive, etc. They are detailed here.

- curl (system version is sufficient)
- openssl (system version is sufficient)
- s3curl (<https://github.com/rtdp/s3curl>) - you must modify the script to replace the hardcoded endpoint hostnames with the Cloud Files endpoint hostname.
- mysql (system version is sufficient)
- mysqldump (usually part of the mysql or mysql-client RPM)
- mongoexport v 3.x - you cannot use version 2.x
- sftp (system version is sufficient)
- base64 (system version is sufficient)