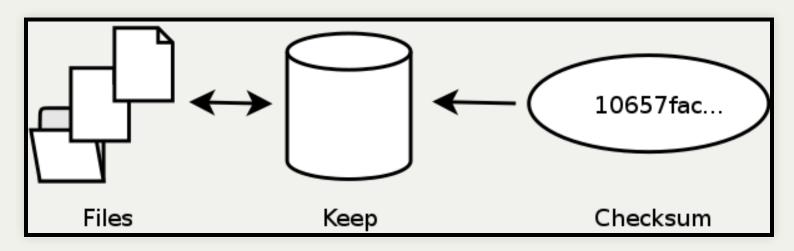


About Arvados

- https://arvados.org/
- License: GNU AGPL version 3 (with SDKs under Apache License 2.0)
- Written primarily in Rails and Go

Keep: Content-addressable storage



Keep Manifests

Map a collection of files to Keep storage

. 50edc6a39ac0a3f9f5048e8a18dda5ef+67108864 0b853b665d5cac96bb6c015ac6cf0c56+67108864 a2c46aca6d51add2ee90ee8a526c90d0+67108864

...

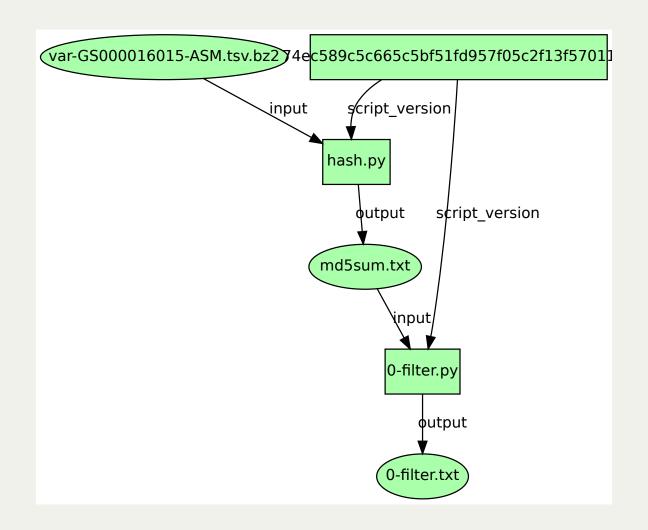
908051:3817477817:HWI-ST1027_129_D0THKACXX.2_1.fastq.bam 0:908051:HWI-ST1027_129_D0THKACXX.2_1.fastq.bam.recal.csv

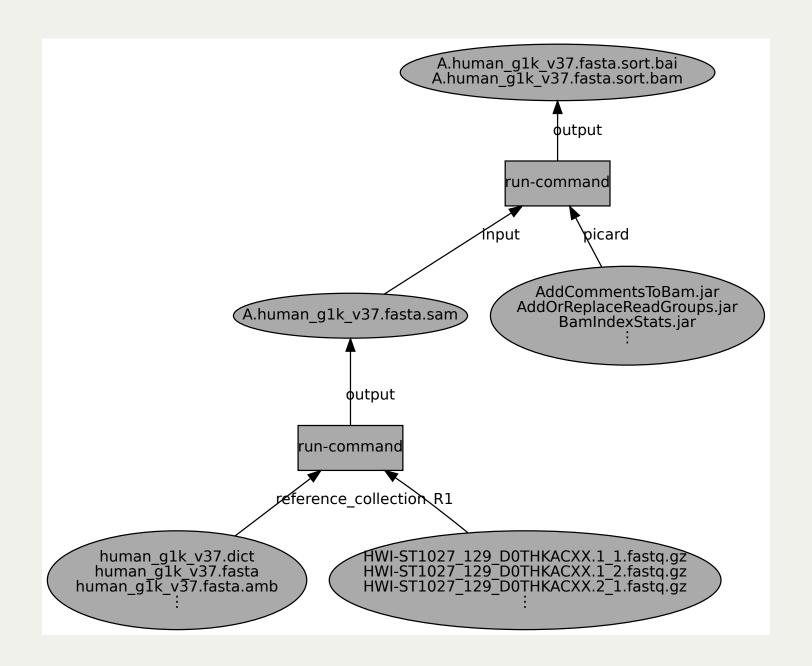
Arvados API Server

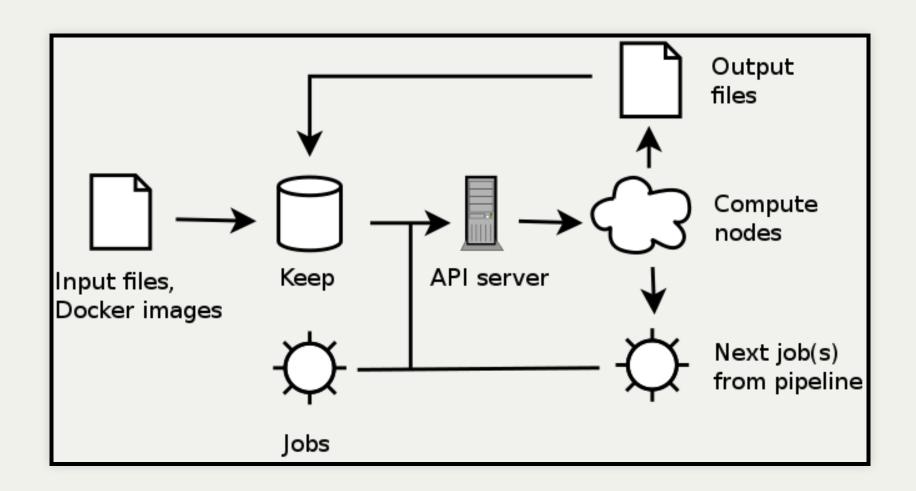
Jobs

```
{"script": "run-command",
 "script version": "847459b3c257aba65df3e0cbf6777f7148542af2",
"repository": "arvados",
"script parameters": {
   "command": [
     "bwa", "mem", "-t", "$(node.cores)", "-R",
     "@RG\\tID:group id\\tPL:illumina\\tSM:sample id",
     "$(dir $(reference_collection))/$(reference_name)",
     "$(file $(R1))", "$(file $(R2))"
  "reference collection": {
     "required": true, "dataclass": "Collection",
     "default": "3514b8e5da0e8d109946bc809b20a78a+5698"
  },
  # ... more input parameters...
},
"runtime constraints": {
   "docker image": "arvados/jobs-java-bwa-samtools",
   "min cpu cores per node": 8
```

```
{"script": "run-command",
    "script_version": "847459b3c257aba65df3e0cbf6777f7148542af2",
    "repository": "arvados",
    "script_parameters": {
        "command": [
            "bwa", "mem", "-t", "$(node.cores)", "-R",
            "@RG\\tID:group_id\\tPL:illumina\\tSM:sample_id",
            "$(dir $(reference_collection))/$(reference_name)",
            "$(file $(R1))", "$(file $(R2))"
        ],
        "reference_collection": "3514b8e5da0e8d109946bc809b20a78a+5698",
        "reference_name": "human_glk_v37.fasta",
        # ... more resolved input parameters...
},
    "docker_image_locator": "fdab1550b0b1d9567fbf9a42b22a38d4+966"
}
```







Learn more

- https://arvados.org/
- IRC: irc.oftc.net/#arvados
- Ask about a beta account