

## Issues

| #     | Project      | Tracker | Status      | Priority | Subject  | Assigned To    | Updated             | % Done | Hours |
|-------|--------------|---------|-------------|----------|--|----------------|---------------------|--------|-------|
| 19027 | Arvados      | Task    | New         | Normal   | 10. Build RC arvados/jobs image  |                | 05/06/2022 05:45 PM | 0      |       |
| 17368 | Arvados      | Task    | Feedback    | Normal   | 10. Deploy RC to su92l   | Peter Amstutz  | 03/03/2021 06:03 PM | 0      |       |
| 19028 | Arvados      | Task    | New         | Normal   | 11. Ensure installer tests are passing   |                | 05/06/2022 05:45 PM | 0      |       |
| 19029 | Arvados      | Task    | New         | Normal   | 12. Build compute image & deploy RC packages to playground   |                | 05/06/2022 05:45 PM | 0      |       |
| 19030 | Arvados      | Task    | New         | Normal   | 13. Run bam-to-vcf demo pipeline   |                | 05/06/2022 05:45 PM | 0      |       |
| 19031 | Arvados      | Task    | New         | Normal   | 14. Approve RC for release   |                | 05/06/2022 05:45 PM | 0      |       |
| 19032 | Arvados      | Task    | New         | Normal   | 15. Build final release packages   |                | 05/06/2022 05:45 PM | 0      |       |
| 17628 | Arvados      | Task    | In Progress | Normal   | 15. push arvbox-demo image   |                | 06/09/2021 03:47 PM | 0      |       |
| 19033 | Arvados      | Task    | New         | Normal   | 16. Publish stable arvados/jobs Docker image   |                | 05/06/2022 05:45 PM | 0      |       |
| 19034 | Arvados      | Task    | New         | Normal   | 17. Push packages to stable  |                | 05/06/2022 05:45 PM | 0      |       |
| 19035 | Arvados      | Task    | New         | Normal   | 18. Publish Python and Ruby packages   |                | 05/06/2022 05:45 PM | 0      |       |
| 19036 | Arvados      | Task    | New         | Normal   | 19. Publish Java package   |                | 05/06/2022 05:45 PM | 0      |       |
| 19018 | Arvados      | Task    | New         | Normal   | 1. Prepare release branches  |                | 05/06/2022 05:45 PM | 0      |       |
| 19037 | Arvados      | Task    | New         | Normal   | 20. Publish R package  |                | 05/06/2022 05:45 PM | 0      |       |
| 19038 | Arvados      | Task    | New         | Normal   | 21. Publish arvados/arvbox-demo image  |                | 05/06/2022 05:45 PM | 0      |       |
| 19039 | Arvados      | Task    | New         | Normal   | 22. Tag commits  |                | 05/06/2022 05:45 PM | 0      |       |
| 5872  | GET-Evidence | Bug     | In Progress | Normal   | 23andMe report pipeline is broken  | Abram Connelly | 05/14/2015 09:57 PM | 0      |       |
| 19040 | Arvados      | Task    | New         | Normal   | 23. Ensure doc.arvados.org has new version   |                | 05/06/2022 05:45 PM | 0      |       |
| 19041 | Arvados      | Task    | New         | Normal   | 24. Merge release notes (step 7) from "develop" to "main" on arvados.org   |                | 05/06/2022 05:45 PM | 0      |       |
| 19042 | Arvados      | Task    | New         | Normal   | 25. Send out release announcements   |                | 05/06/2022 05:45 PM | 0      |       |
| 19043 | Arvados      | Task    | New         | Normal   | 26. Major releases only: Copy "run-tests" jobs in jenkins  |                | 05/06/2022 05:45 PM | 0      |       |
| 19044 | Arvados      | Task    | New         | Normal   | 27. Add the release to zenodo.org  |                | 05/06/2022 05:45 PM | 0      |       |
| 19019 | Arvados      | Task    | New         | Normal   | 2. Update provision.sh, formula and arvbox to point to release. Update the "Upgrading Arvados and Release notes" doc page (main and release branch). |                | 05/06/2022 05:45 PM | 0      |       |
| 19020 | Arvados      | Task    | New         | Normal   | 3. Ensure that the entire automated testing pipeline is passing on Jenkins   |                | 05/06/2022 05:45 PM | 0      |       |
| 19021 | Arvados      | Task    | New         | Normal   | 4. Manual testing  |                | 05/06/2022 05:45 PM | 0      |       |
| 10408 | Arvados      | Bug     | New         | Normal   | 4xphq keep balance api request causes oom on api server  |                | 07/07/2021 06:22 PM | 0      |       |
| 19022 | Arvados      | Task    | New         | Normal   | 5. Review release branch   |                | 05/06/2022 05:45 PM | 0      |       |
| 19023 | Arvados      | Task    | New         | Normal   | 6. Create next redmine release   |                | 05/06/2022 05:45 PM | 0      |       |
| 19024 | Arvados      | Task    | New         | Normal   | 7. Draft release notes and publish them to www-dev   |                | 05/06/2022 05:45 PM | 0      |       |
| 19025 | Arvados      | Task    | New         | Normal   | 8. Review release notes  |                | 05/06/2022 05:45 PM | 0      |       |

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|-------|---------------|---------|-------------|----------|--|---------------|---------------------|--------|-------|
| 19026 | Arvados       | Task    | New         | Normal   | 9. Build RC packages   |               | 05/06/2022 05:45 PM | 0      |       |
| 16501 | Arvados       | Task    | Feedback    | Normal   | 9. Run bam-to-vcf pipeline on playground   | Sarah Zaranek | 06/10/2020 09:25 PM | 0      |       |
| 18621 | Arvados       | Feature | New         | Normal   | Ability for admin to purge old versions of a collection  |               | 01/10/2022 04:41 PM | 0      |       |
| 3473  | Arvados       | Story   | New         | Normal   | Ability to mark one's own projects as read-only to avoid changing it by accident.  |               | 08/16/2014 05:15 PM | 0      |       |
| 18997 | Arvados       | Story   | New         | Normal   | ability to migrate arvbox to arvados-server boot dev mode  |               | 05/06/2022 06:40 PM | 0      |       |
| 18548 | Arvados       | Feature | New         | Normal   | Ability to share a link to the "Get API Token" dialog in WB"   |               | 12/03/2021 03:22 PM | 0      |       |
| 18181 | Arvados       | Feature | New         | Normal   | Ability to specify a % of compute instance price that user is willing to go over from cheapest   |               | 09/22/2021 04:06 PM | 0      |       |
| 18334 | Arvados       | Bug     | New         | Normal   | Accept release info changes in docker recipes  |               | 11/04/2021 03:23 PM | 0      |       |
| 18790 | Arvados       | Feature | New         | Normal   | Access live container logs through arvados-client and crunch-run container gateway   |               | 02/18/2022 03:28 PM | 0      |       |
| 16316 | Arvados       | Feature | New         | Normal   | a-c-r handles resource range requests (especially CPU) and adjusts requests based on what is in InstanceTypes list                         | Jiayong Li    | 04/14/2021 07:47 PM | 0      |       |
| 15250 | Arvados       | Feature | In Progress | Normal   | a-c-r set TTL on final output collection   | Jiayong Li    | 02/23/2022 03:13 PM | 0      |       |
| 11581 | Arvados       | Bug     | New         | Normal   | a-c-r should log the command used to run the pipeline  |               | 07/06/2021 09:22 PM | 0      |       |
| 18726 | Arvados       | Feature | New         | Normal   | a-c-r uses arv-put internally to upload dependencies   |               | 02/10/2022 04:53 PM | 0      |       |
| 16514 | Arvados Epics | Story   | New         | Normal   | Actionable insight into keep usage   |               | 02/18/2022 09:55 PM | 0      |       |
| 12178 | Arvados       | Bug     | New         | Normal   | Activating an account (setting is_active from false to true) does not email the new user   |               | 07/06/2021 09:11 PM | 0      |       |
| 18345 | Arvados       | Bug     | New         | Normal   | Activity script crash  |               | 11/23/2021 09:13 PM | 0      |       |
| 17185 | Arvados       | Feature | New         | Normal   | [adc] add broken node metrics  | Tom Clegg     | 04/28/2021 01:37 PM | 0      |       |
| 16843 | Arvados       | Feature | New         | Normal   | [a-d-c] admin cli  |               | 07/06/2021 09:08 PM | 0      |       |
| 18101 | Arvados       | Bug     | New         | Normal   | [a-d-c] [AWS] add option to spin up (spot) instances in more/all availability zones in the region  |               | 09/03/2021 08:16 PM | 0      |       |
| 15051 | Arvados       | Feature | New         | Normal   | [a-d-c] EC2 driver supports AssumeRole   |               | 07/06/2021 09:25 PM | 0      |       |
| 16738 | Arvados       | Feature | New         | Normal   | [a-d-c] introduce concept of "quota partition"   |               | 07/06/2021 09:08 PM | 0      |       |
| 18114 | Arvados       | Bug     | New         | Normal   | [a-d-c] slow down retries when CreateInstance returns non-quota/non-throttle errors  |               | 09/07/2021 06:11 PM | 0      |       |
| 18161 | Arvados       | Bug     | New         | Normal   | [a-d-c] the arvados_dispatchcloud_queue_entries prometheus metric should report actual instance types                                      |               | 09/16/2021 04:41 PM | 0      |       |
| 17775 | Arvados       | Bug     | New         | Normal   | [a-d-c] the user should be able to see when preemptible nodes get shut down and the running container requeued                             |               | 12/14/2021 09:01 PM | 0      |       |
| 17771 | Arvados       | Bug     | New         | Normal   | [a-d-c] when a cluster supports preemptible nodes, there should be a knob to allow the user to choose the use of preemptible nodes, or not |               | 07/06/2021 09:08 PM | 0      |       |
| 17780 | Arvados       | Bug     | New         | Normal   | [a-d-c] when toggling UsePreemptibleInstances, existing containers that are runnable generate lots of errors                               |               | 07/06/2021 09:07 PM | 0      |       |

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| 482   | GET-Evidence        | Feature | New         | Normal   | add "affects self (hom or dominant)" checkbox (vs "affects offspring") on result page         | Tom Clegg      | 02/16/2011 02:57 PM | 0      |       |
| 3025  | Tapestry            | Feature | New         | Normal   | Add an admin interface feature to export all enrolled users + shipping address as a csv file. |                | 06/13/2014 08:36 PM | 0      |       |
| 15783 | Arvados             | Story   | New         | Normal   | Add Arvados services go docs  |                | 07/06/2021 09:08 PM | 0      |       |
| 13514 | Arvados             | Feature | New         | Normal   | Add arvswitch to shell accounts by default  |                | 04/22/2020 08:54 PM | 0      |       |
| 10718 | Arvados             | Bug     | New         | Normal   | add a --user-script option to install-arvados-jobs-image                                      |                | 07/07/2021 06:21 PM | 0      |       |
| 19058 | Arvados             | Support | New         | Normal   | Add code scanning to jenkins pipeline   |                | 04/27/2022 03:08 PM | 0      |       |
| 516   | GET-Evidence        | Feature | New         | Normal   | Add conservation track from ucsc  |                | 02/17/2011 07:08 PM | 0      |       |
| 925   | GET-Evidence        | Feature | In Progress | Normal   | Add EVS frequency data  | Tom Clegg      | 05/16/2012 03:30 PM | 0      |       |
| 17232 | Arvados             | Support | New         | Normal   | add example of readRDS() to arvadosR help   |                | 11/09/2021 07:58 PM | 0      |       |
| 2231  | Tapestry            | Feature | New         | Normal   | add flag to choose locale   | Ward Vandewege | 02/26/2014 12:34 PM | 0      |       |
| 8254  | Arvados             | Bug     | New         | Normal   | Add Gantt chart for pipeline optimization   |                | 07/07/2021 06:27 PM | 0      |       |
| 9241  | GET-Evidence        | Feature | New         | Normal   | Add "Genes for Good" support for genome report  |                | 05/19/2016 04:52 PM | 0      |       |
| 6124  | Arvados             | Task    | New         | Normal   | Add "goal mode" infrastructure  | Tom Clegg      | 07/07/2021 06:29 PM | 0      |       |
| 696   | GET-Evidence        | Feature | New         | Normal   | Add Google Search API   |                | 09/15/2011 01:53 PM | 0      |       |
| 18873 | Arvados             | Support | New         | Normal   | Add hooks to limit which paths of arvados repo non-curii employees can push to                | Ward Vandewege | 05/11/2022 03:10 PM | 0      |       |
| 5571  | Tapestry            | Feature | New         | Normal   | Add huLD to 'aaData' entries in 'public_genetic_data.json' request                            |                | 03/25/2015 09:47 PM | 0      |       |
| 10164 | Arvados             | Feature | New         | Normal   | Additional Crunch job logging controls  |                | 07/07/2021 06:23 PM | 0      |       |
| 18239 | Arvados             | Story   | New         | Normal   | Add Kubernetes testing to CI  |                | 11/09/2021 07:56 PM | 0      |       |
| 16561 | Arvados             | Story   | New         | Normal   | Add "Listen" to Services config   |                | 05/06/2022 05:45 PM | 0      |       |
| 17148 | Arvados             | Feature | New         | Normal   | add logging middleware to lib/cmd   |                | 06/07/2021 02:42 PM | 0      |       |
| 12978 | Arvados             | Feature | New         | Normal   | Add method uuid() to collections  |                | 01/19/2018 04:10 PM | 0      |       |
| 6143  | GET-Evidence        | Bug     | New         | Normal   | Add 'nofollow' to download links for report   | Abram Connelly | 05/27/2015 08:21 PM | 0      |       |
| 1080  | GET-Evidence        | Feature | New         | Normal   | Add non-reference variant counts to metadata  | Madeleine Ball | 08/14/2012 05:28 PM | 0      |       |
| 16782 | Arvados Epics       | Story   | New         | Normal   | Add-on module system  |                | 02/18/2022 09:55 PM | 0      |       |
| 18501 | Arvados             | Bug     | New         | Normal   | Add option in ARV GUI to open link in new tab   |                | 11/30/2021 03:43 PM | 0      |       |
| 17674 | Arvados             | Bug     | New         | Normal   | add profiling infrastructure to Rails API server  |                | 06/08/2021 05:53 PM | 0      |       |
| 6257  | Tapestry            | Story   | In Progress | Normal   | Add public facing database dump, cron job and Arvados upload                                  | Abram Connelly | 07/07/2015 04:22 PM | 100    |       |
| 15425 | Arvados Workbench 2 | Story   | New         | Normal   | Add "search all versions" checkbox to Search UI   |                | 06/26/2019 05:54 PM | 0      |       |

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| 18197 | Arvados             | Feature | New         | Normal   | add search option to input selection when running a workflow   |                | 09/27/2021 07:41 PM | 0      |       |
| 17168 | Arvados             | Bug     | In Progress | Normal   | Add some basic documentation about wb2 to user guide   | Sarah Zaraneck | 11/30/2020 09:28 PM | 0      |       |
| 714   | GET-Evidence        | Feature | New         | Normal   | Add spam-control measures  |                | 09/22/2011 06:59 PM | 0      |       |
| 1084  | GET-Evidence        | Feature | New         | Normal   | Add support for deCODE data  | Madeleine Ball | 08/16/2012 11:20 AM | 0      |       |
| 1085  | GET-Evidence        | Feature | New         | Normal   | Add support for Family Tree DNA (FTDNA) data   | Madeleine Ball | 08/16/2012 11:23 AM | 0      |       |
| 18970 | Arvados             | Feature | New         | Normal   | Add support for publicly shared collections (anonymous user)   |                | 04/04/2022 03:17 PM | 0      |       |
| 15689 | Arvados             | Feature | New         | Normal   | Add the ability to start arvbox with a specific arvados repo   |                | 10/04/2019 02:50 PM | 0      |       |
| 10354 | Arvados             | Story   | New         | Normal   | Add varchar_pattern_ops to all relevant PostgreSQL UUID indexes  | Tom Morris     | 07/07/2021 06:22 PM | 0      |       |
| 17274 | Arvados             | Story   | New         | Normal   | Add "viewer.commonwl.org" DNS alias  | Peter Amstutz  | 02/24/2021 07:45 PM | 0      |       |
| 6412  | Tapestry            | Bug     | New         | Normal   | Admin cannot use UserFilesController#reprocess unless admin account is marked "enrolled"                               |                | 06/24/2015 08:16 PM | 0      |       |
| 15347 | Arvados Workbench 2 | Bug     | New         | Normal   | [Admin functionality] Admin cannot see another user's content inside the trash   |                | 02/12/2020 03:03 PM | 0      |       |
| 18499 | Arvados             | Bug     | New         | Normal   | Advanced Dialog on collections shows the manifest_text as null   |                | 11/30/2021 03:38 PM | 0      |       |
| 18280 | Arvados             | Bug     | New         | Normal   | Advanced Search in ARV PROD GUI non-functional   |                | 10/20/2021 04:46 PM | 0      |       |
| 18192 | Arvados             | Bug     | New         | Normal   | Advanced search is showing ROX IDs in the search field syntax instead of clear values                                  |                | 09/27/2021 07:13 PM | 0      |       |
| 19052 | Arvados             | Bug     | In Progress | Normal   | Advanced search shows wrong value in owner column  | Daniel Kutyla  | 05/20/2022 03:18 PM | 0      |       |
| 18840 | Arvados             | Feature | New         | Normal   | Algorithm to repack small files into larger blocks   |                | 03/08/2022 03:15 PM | 0      |       |
| 495   | GET-Evidence        | Bug     | New         | Normal   | Allele frequency missing for rs41281314  | Tom Clegg      | 02/15/2011 03:17 PM | 0      |       |
| 5861  | Arvados             | Task    | New         | Normal   | Allow editing pipeline parameters in workbench   | Tom Clegg      | 02/14/2017 08:00 PM | 0      |       |
| 476   | GET-Evidence        | Feature | New         | Low      | allow "lab members" group to upload/view publication PDFs  | Tom Clegg      | 02/16/2011 02:22 PM | 0      |       |
| 488   | GET-Evidence        | Feature | New         | Normal   | Allow non-nsSNP variants   | Tom Clegg      | 02/16/2011 02:56 PM | 0      |       |
| 17304 | Arvados             | Feature | New         | Normal   | Allow setting properties on processes  |                | 01/29/2021 04:59 PM | 0      |       |
| 12239 | Arvados             | Story   | New         | Normal   | Allow templating of the collection sharing web page  |                | 07/06/2021 09:18 PM | 0      |       |
| 16563 | Arvados             | Feature | New         | Normal   | All services support TLS directly  |                | 06/24/2020 06:56 PM | 0      |       |
| 14622 | GET-Evidence        | Bug     | New         | Normal   | Annotate I7g CWL pipeline  | Ben Carr       | 12/17/2018 02:15 PM | 0      |       |
| 7300  | Lightning           | Story   | New         | Normal   | Annotate Tiling 1.0 public library   |                | 05/15/2019 06:12 PM | 0      |       |
| 7695  | Arvados             | Bug     | New         | Normal   | [API] Accept collection UUID as a job's docker_image constraint  |                | 07/07/2021 06:27 PM | 0      |       |
| 15320 | Arvados             | Feature | New         | Normal   | [API] add integration test for new user signup   |                | 07/06/2021 09:08 PM | 0      |       |
| 7141  | Arvados             | Bug     | New         | Normal   | [API] Advertise anonymous token in discovery document  |                | 07/07/2021 06:28 PM | 0      |       |
| 4650  | Arvados             | Feature | New         | Normal   | [API] API method and CLI shortcut for refreshing the signatures on some block locators (without creating a collection) |                | 07/07/2021 06:35 PM | 0      |       |
| 4175  | Arvados             | Bug     | New         | Normal   | [API] API method and interface to check if a bugfix is deployed on a cluster   |                | 07/07/2021 06:36 PM | 0      |       |

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| 4288  | Arvados   | Bug     | New         | Normal   | [API] api server docker_images endpoint  |               | 07/07/2021 06:35 PM | 0      |       |
| 4919  | Arvados   | Story   | New         | Normal   | [API] Arvados clients can use standard OAuth2 protocol instead of custom token handling mechanism        |               | 07/07/2021 06:31 PM | 0      |       |
| 10767 | Arvados   | Feature | New         | Normal   | [API] [arvados-ws] remove all websockets and puma related code from the api server codebase              |               | 07/06/2021 09:11 PM | 0      |       |
| 11260 | Arvados   | Bug     | New         | Normal   | [API] "arv group contents" produces a 404 error (seems to POST instead of GET?)                          |               | 07/06/2021 09:24 PM | 0      |       |
| 4273  | Arvados   | Bug     | New         | Normal   | [API] as admin user, permission denied canceling a job (started by another user)                         |               | 07/07/2021 06:35 PM | 0      |       |
| 9262  | Arvados   | Feature | New         | Normal   | [API] Associate admin privileges with token instead of user account                                      |               | 01/15/2020 09:03 PM | 0      |       |
| 14405 | Arvados   | Bug     | New         | Normal   | [API] Avoid long-running transactions when sweeping trashed objects                                      |               | 07/06/2021 09:09 PM | 0      |       |
| 8346  | Arvados   | Bug     | New         | Normal   | [API] Bad compute node address detection on private networks   |               | 07/07/2021 06:27 PM | 0      |       |
| 13766 | Arvados   | Bug     | In Progress | Normal   | [API] bug in libyaml / Pysch used by API server to parse yaml  | Peter Amstutz | 07/06/2021 09:26 PM | 50     |       |
| 11531 | Arvados   | Bug     | New         | Normal   | [API] clean up stale/conflicting dns data from deleted node records                                      |               | 07/06/2021 09:23 PM | 0      |       |
| 3162  | Arvados   | Feature | New         | Normal   | [API] Client can request signed locators for specific blobs from API server                              |               | 07/07/2014 11:42 AM | 0      |       |
| 18205 | Arvados   | Feature | New         | Normal   | [api] [cloud] add live compute instance price to container record  |               | 09/27/2021 09:26 PM | 0      |       |
| 14016 | Arvados   | Feature | New         | Normal   | [API] Container request can provide existing collection UUID that will accept CR output                  |               | 07/06/2021 09:09 PM | 0      |       |
| 15582 | Arvados   | Feature | New         | Normal   | [API] [Controller] Per-user client login permissions   |               | 08/21/2019 05:40 PM | 0      |       |
| 18936 | Arvados   | Bug     | New         | Normal   | [api] [controller] remove reader_token support   |               | 05/06/2022 06:39 PM | 0      |       |
| 17314 | Arvados   | Bug     | New         | Normal   | [API] [controller] [Workbench] 404 on foreign user UUID in admin interface                               |               | 07/06/2021 09:08 PM | 0      |       |
| 11153 | Arvados   | Feature | New         | Normal   | [API] create_token script should allow operator to provide token scopes and opaque comment               |               | 07/07/2021 05:25 PM | 0      |       |
| 5906  | Arvados   | Bug     | New         | Normal   | [API] crunch-dispatch should mark a job failed when its repository cannot be fetched                     |               | 07/07/2021 06:29 PM | 0      |       |
| 7312  | Arvados   | Bug     | New         | Normal   | [API] CSS+images missing on login_failure.html   |               | 07/07/2021 06:28 PM | 0      |       |
| 14070 | Arvados   | Bug     | New         | Normal   | API DB needs an index on collections name  |               | 10/17/2018 04:21 PM | 0      |       |
| 15588 | Arvados   | Bug     | New         | Normal   | [API] "DefaultReplication: 0" should be an error   |               | 07/06/2021 09:12 PM | 0      |       |
| 11582 | Arvados   | Feature | New         | Normal   | [API] Delete old job/container logs in main server process, instead of rake tasks invoked from cron jobs |               | 07/06/2021 09:22 PM | 0      |       |
| 4767  | Arvados   | Bug     | New         | Normal   | [API] Discovery doc should fix its incorrect "list" method description to be identical to "index"        |               | 07/07/2021 06:31 PM | 0      |       |
| 3817  | Arvados   | Bug     | New         | Normal   | [API] Discovery document schema does not include generated fields like job dependencies                  |               | 07/07/2021 06:36 PM | 0      |       |
| 3818  | Arvados   | Feature | New         | Normal   | [API] Discovery document schema should include whether field on resource is writable or read-only.       |               | 07/06/2021 09:27 PM | 0      |       |
| 5335  | Lightning | Story   | New         | Normal   | [API] [Documentation] Specify how to find the variants in a gene   |               | 05/15/2019 06:21 PM | 0      |       |

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| 6601  | Arvados   | Bug     | New         | Normal   | [API] Do not accept an empty SSH key as valid  |             | 07/07/2021 06:29 PM | 0      |       |
| 12510 | Arvados   | Bug     | New         | Normal   | [API] Don't create an index if it exists already. Will break install if we manually added it,  |             | 07/06/2021 09:16 PM | 0      |       |
| 5781  | Arvados   | Story   | In Progress | Normal   | [API] [DRAFT] Provide API methods for manipulating and combining collections   |             | 07/07/2021 06:30 PM | 0      |       |
| 16250 | Arvados   | Bug     | New         | Normal   | API Endpoint not found when opening advanced menu of collection  |             | 03/13/2020 06:26 AM | 0      |       |
| 11547 | Arvados   | Bug     | New         | Normal   | [API] Excessive memory and time consumed by API and dispatch when container fields (like "mounts") are large   |             | 07/06/2021 09:23 PM | 0      |       |
| 9148  | Arvados   | Story   | New         | Normal   | [API] Finalize and document the collections/provenance and collections/used_by API calls   |             | 07/07/2021 06:25 PM | 0      |       |
| 12791 | Arvados   | Bug     | New         | Normal   | [API] fix race between arrival of trash time and next sweep  |             | 07/06/2021 09:11 PM | 0      |       |
| 11261 | Arvados   | Bug     | New         | Normal   | [API] full text search on pipeline_instances table is extremely slow (wrong index?)  |             | 07/06/2021 09:24 PM | 0      |       |
| 8565  | Arvados   | Story   | New         | Normal   | [API] Go code to connect to the API server database and make basic sense of it   |             | 07/07/2021 06:25 PM | 0      |       |
| 8566  | Arvados   | Story   | New         | Normal   | [API] Go code to implement the Arvados API permissions model   |             | 07/07/2021 06:25 PM | 0      |       |
| 17424 | Arvados   | Bug     | New         | Normal   | [API] group contents endpoint edge cases with filter on uuid   |             | 03/08/2021 08:48 PM | 0      |       |
| 13763 | Arvados   | Bug     | New         | Normal   | [API] groups#contents response should obey caller-provided order (not sort on type first)  |             | 07/06/2021 09:10 PM | 0      |       |
| 2679  | Arvados   | Story   | New         | Normal   | [API] If enabled by user via "preferences" checkbox in Workbench, notification service sends email to owner when a workflow finishes, fails, or is failing |             | 07/06/2021 09:12 PM | 0      |       |
| 5331  | Lightning | Story   | New         | Normal   | [API] Implement filtering on API calls   |             | 05/15/2019 06:23 PM | 0      |       |
| 5334  | Lightning | Story   | New         | Normal   | [API] Implement GET /callsets/{callset-name}/gvcf API call   |             | 05/15/2019 06:22 PM | 0      |       |
| 5329  | Lightning | Story   | New         | Normal   | [API] Implement GET /callsets/{callset-name}/tile-variants   |             | 05/15/2019 06:24 PM | 0      |       |
| 5901  | Arvados   | Bug     | New         | Normal   | [API] Improve performance of large requests in parallel  |             | 07/07/2021 06:29 PM | 0      |       |
| 6642  | Arvados   | Story   | New         | Normal   | [API] Include a mechanism to automatically trust some clients  |             | 07/07/2021 06:29 PM | 0      |       |
| 10127 | Arvados   | Bug     | New         | Normal   | [API] In each request log entry, report time spent getting current permission graph  |             | 07/07/2021 06:23 PM | 0      |       |
| 7127  | Arvados   | Feature | New         | Normal   | [API] Job log cleaner should not clean logs when the job's log is the empty collection   |             | 07/07/2021 06:28 PM | 0      |       |
| 7621  | Arvados   | Story   | New         | Normal   | [API] Job model validates that the script exists in the repository at script_version   |             | 07/07/2021 06:28 PM | 0      |       |
| 8638  | Arvados   | Bug     | New         | Normal   | [API] List queries using "distinct" option return incorrect number of items_available  |             | 07/07/2021 06:25 PM | 0      |       |
| 4991  | Arvados   | Bug     | New         | Normal   | [API] Make user.send_profile_created_notification detect preference changes better   |             | 01/28/2015 06:59 PM | 0      |       |
| 6922  | Arvados   | Bug     | New         | Normal   | [API] [Maybe] Update API server to support Git 1.7.2   |             | 07/07/2021 06:28 PM | 0      |       |

| #     | Project | Tracker | Status | Priority | Subject   | Assigned To | Updated             | % Done | Hours |
|-------|---------|---------|--------|----------|---|-------------|---------------------|--------|-------|
| 3976  | Arvados | Bug     | New    | Normal   | [API] Non-admin users should see all nodes with crunch_worker_state busy/idle, regardless of ping age.                                  | Tom Morris  | 07/07/2021 06:36 PM | 0      |       |
| 13688 | Arvados | Feature | New    | Normal   | [API] optional asynchronous flag for create/update operations   |             | 04/22/2020 09:08 PM | 0      |       |
| 6240  | Arvados | Bug     | New    | Normal   | [API] "order" params should be rejected or used (not silently ignored) even when they reference columns missing from the "select" param |             | 07/07/2021 06:29 PM | 0      |       |
| 14200 | Arvados | Feature | New    | Normal   | [API] Reduce privilege exposure via API tokens in multi-cluster workflows   |             | 07/06/2021 09:09 PM | 0      |       |
| 3622  | Arvados | Bug     | New    | Normal   | [API] [refactor] Move system_group, system_user, etc to class methods in Group and User   |             | 07/06/2021 09:27 PM | 0      |       |
| 5840  | Arvados | Feature | New    | Normal   | [API] Relax repository name constraints to permit [-_] -- ideally allow anything github allows  |             | 07/07/2021 06:30 PM | 0      |       |
| 18862 | Arvados | Bug     | New    | Normal   | [api] remove replay_job_log rake task   |             | 03/14/2022 03:43 PM | 0      |       |
| 10405 | Arvados | Story   | New    | Normal   | [API] Remove unimplemented fields from api_client_authorization   |             | 07/07/2021 06:22 PM | 0      |       |
| 18016 | Arvados | Bug     | New    | Normal   | [api] remove unused last_used_at and last_used_by_ip_address columns on api_client_authorizations table                                 |             | 08/12/2021 02:52 PM | 0      |       |
| 17953 | Arvados | Story   | New    | Normal   | [api] Remove unused "node" object   |             | 11/23/2021 09:28 PM | 0      |       |
| 18008 | Arvados | Bug     | New    | Normal   | [api] reqid not always being recorded in the api server log   |             | 08/11/2021 05:06 PM | 0      |       |
| 15938 | Arvados | Bug     | New    | Normal   | [API] requesting collections via POST with _method=GET returns one result   |             | 12/17/2019 05:51 PM | 0      |       |
| 13007 | Arvados | Story   | New    | Normal   | [API] Review Postgres index usage   |             | 01/26/2018 05:04 PM | 0      |       |
| 4404  | Arvados | Feature | New    | Normal   | [API] [SDKs] Include provenance information for uploaded Collections  |             | 07/07/2021 06:35 PM | 0      |       |
| 10849 | Arvados | Story   | New    | Normal   | [API] [SDKs] When client and server versions differ, the server must either implement the API the client expects, or return an error.   |             | 07/07/2021 06:21 PM | 0      |       |
| 14457 | Arvados | Feature | New    | Normal   | [api] send e-mail notification to user when their arvados account is activated  |             | 07/06/2021 09:09 PM | 0      |       |
| 12244 | Arvados | Feature | New    | Normal   | API server bulk transfers for keep-balance collection retrieval   |             | 09/13/2017 10:08 AM | 0      |       |
| 6772  | Arvados | Bug     | New    | Normal   | [API] Should not be necessary to host git repos on the same host as API server  |             | 07/07/2021 06:29 PM | 0      |       |
| 7166  | Arvados | Bug     | New    | Normal   | [API] specifying an invalid filter should result in an error  |             | 07/07/2021 06:28 PM | 0      |       |
| 15918 | Arvados | Feature | New    | Normal   | [API] Support GA4GH WES as a core API   |             | 01/17/2020 02:28 PM | 0      |       |
| 6992  | Arvados | Bug     | New    | Normal   | [API] Support numeric filter comparisons for numeric fields   |             | 07/07/2021 06:28 PM | 0      |       |
| 5960  | Arvados | Feature | New    | Normal   | [API] Support transactional update of collections by multiple writers   |             | 01/15/2020 07:46 PM | 0      |       |
| 9150  | Arvados | Story   | New    | Normal   | [API] Synthetic collections include the "kind" field  |             | 07/07/2021 06:25 PM | 0      |       |
| 16008 | Arvados | Feature | New    | Normal   | API to query permissions (for use by 3rd party integrations)  |             | 01/13/2020 06:24 PM | 0      |       |
| 9143  | Arvados | Bug     | New    | Normal   | [API] Trying to update a collection by PDH raises a NoMethodError   |             | 07/07/2021 06:25 PM | 0      |       |
| 12349 | Arvados | Bug     | New    | Normal   | [API] Validate container requests "output_path must be in a writable mount"   |             | 09/27/2017 04:15 PM | 0      |       |

| #     | Project       | Tracker | Status      | Priority | Subject  | Assigned To    | Updated             | % Done | Hours |
|-------|---------------|---------|-------------|----------|--|----------------|---------------------|--------|-------|
| 5738  | Arvados       | Bug     | New         | Normal   | [API] Validate that selected columns are selectable, and return an error if not  |                | 07/06/2021 09:26 PM | 0      |       |
| 6076  | Arvados       | Bug     | New         | Normal   | [API] walk api server installations and ensure modified_at for collections is unique + ensure modified_at is enforced to be unique at the api level.                           |                | 07/07/2021 06:29 PM | 0      |       |
| 11555 | Arvados       | Feature | New         | Normal   | [API] Webhook callbacks for server-to-server communication   |                | 07/06/2021 09:23 PM | 0      |       |
| 3037  | Arvados       | Bug     | New         | Normal   | [API] websocket clients should not put API tokens in path or query string  |                | 07/07/2021 06:36 PM | 0      |       |
| 5767  | Arvados       | Feature | New         | Normal   | [API] Websockets subscribe API should accept a start timestamp, so clients don't have to miss any events logged between the given start time and websocket connection success. |                | 07/07/2021 06:30 PM | 0      |       |
| 5582  | Arvados       | Feature | New         | Normal   | [API] [Workbench] Add read-only ("locked") flag to projects  |                | 07/07/2021 06:30 PM | 0      |       |
| 7694  | Arvados       | Feature | New         | Normal   | [API] [Workbench] Check for nonexistent config params during rake config:check   |                | 07/07/2021 06:27 PM | 0      |       |
| 8195  | Arvados       | Bug     | New         | Normal   | [API] [Workbench] config:check catches and reports YAML parsing errors   |                | 07/07/2021 06:27 PM | 0      |       |
| 11593 | Arvados       | Bug     | New         | Normal   | [API] [Workbench] config option serve_static_assets to serve_static_files  |                | 07/06/2021 09:22 PM | 0      |       |
| 10594 | Arvados       | Feature | New         | Normal   | [API] [Workbench] Error out when unrecognized keys appear in config files  |                | 07/07/2021 06:21 PM | 0      |       |
| 6782  | Arvados       | Feature | New         | Normal   | [API] [Workbench] Generate debconf template from config yaml   |                | 07/07/2021 06:29 PM | 0      |       |
| 6274  | Arvados       | Bug     | New         | Normal   | [API] [Workbench] Home project should be a real object (group with group_class="project"), not current_user.   |                | 07/07/2021 06:29 PM | 0      |       |
| 5624  | Arvados       | Story   | New         | Normal   | [API] [Workbench] [Performance] Use object caching to improvement performance (such as memcache).  |                | 07/07/2021 06:30 PM | 0      |       |
| 9425  | Arvados       | Story   | New         | Normal   | [API?/Workbench] Search for a link tag value returns linked objects  |                | 07/06/2021 09:11 PM | 0      |       |
| 11137 | Arvados       | Bug     | New         | Normal   | apt-get upgrade arvados-api-server on Ubuntu 12.04 did not update crunch-job   |                | 07/07/2021 05:25 PM | 0      |       |
| 17472 | Arvados       | Story   | In Progress | Normal   | Architecture for displaying container metrics in workbench   | Tom Clegg      | 12/16/2021 04:29 PM | 0      |       |
| 17300 | Arvados       | Bug     | New         | High     | array of array of File causes 'NoneType' object has no attribute 'resolved'  |                | 01/29/2021 02:19 PM | 0      |       |
| 18564 | Arvados       | Feature | New         | Normal   | [art] run jenkins release build steps with a set of parameters   | Ward Vandewege | 05/06/2022 02:51 PM | 0      |       |
| 15941 | Arvados Epics | Story   | In Progress | Normal   | arvados-boot   |                | 03/09/2022 06:04 PM | 0      |       |
| 16656 | Arvados       | Bug     | New         | Normal   | Arvados bug (GUI): Favorites not displayed in ARV move function  |                | 07/30/2020 05:29 PM | 0      |       |
| 10955 | Arvados       | Bug     | New         | Normal   | arvados-cli gem dependency error   |                | 07/07/2021 05:26 PM | 0      |       |
| 18500 | Arvados       | Bug     | New         | Normal   | Arvados CV for "Study Type" property not active  |                | 11/30/2021 03:41 PM | 0      |       |
| 12873 | Arvados       | Bug     | New         | Normal   | arvados-cwl-runner does not allow keep locators in command line input arguments  |                | 02/12/2020 02:45 PM | 0      |       |
| 10327 | Arvados       | Bug     | New         | Normal   | arvados-cwl-runner fails to find secondaryFiles  |                | 07/07/2021 06:22 PM | 0      |       |
| 14650 | Arvados       | Bug     | New         | Normal   | [arvados-cwl-runner] Inaccessible collection causes long traceback   |                | 07/06/2021 09:09 PM | 0      |       |
| 12903 | Arvados       | Bug     | New         | Normal   | arvados-cwl-runner only loads cwl \$!import directives when run with `--local`   |                | 02/28/2018 08:31 PM | 0      |       |



| #     | Project       | Tracker | Status      | Priority | Subject   | Assigned To    | Updated             | % Done | Hours |
|-------|---------------|---------|-------------|----------|---|----------------|---------------------|--------|-------|
| 15865 | Arvados       | Story   | New         | Normal   | [arvados-dispatch-cloud] Cumulative instance time and cost metrics  |                | 04/28/2021 01:38 PM | 0      |       |
| 17751 | Arvados       | Feature | New         | Normal   | [arvados-dispatch-cloud] expose rate-limiting condition in metrics  | Nico César     | 06/02/2021 08:02 PM | 0      |       |
| 15025 | Arvados       | Feature | New         | Normal   | [arvados-dispatch-cloud] GCE driver (Google Compute Engine)   |                | 07/06/2021 09:09 PM | 0      |       |
| 17561 | Arvados       | Bug     | New         | Normal   | [arvados-dispatch-cloud] inst.SetTags() and inst.Destroy() should respect rate-limiting responses from cloud provider               |                | 06/02/2021 08:02 PM | 0      |       |
| 15370 | Arvados       | Feature | In Progress | Normal   | [arvados-dispatch-cloud] loopback driver  | Tom Clegg      | 05/21/2022 03:20 PM | 50     |       |
| 18075 | Arvados       | Bug     | New         | Normal   | arvados-dispatch-cloud should respect Containers.MaxComputeVMs  |                | 08/30/2021 07:33 PM | 0      |       |
| 18213 | Arvados       | Feature | New         | Normal   | Arvados "display in new tab" shows outdated data  |                | 09/28/2021 07:28 PM | 0      |       |
| 10552 | Arvados       | Bug     | New         | Normal   | arvados-git-httpd returns error '500' (Internal Server Error) when a request is not authorized                                      |                | 07/07/2021 06:21 PM | 0      |       |
| 8707  | Tapestry      | Feature | In Progress | Normal   | Arvados job: download data from remote site into Keep   | Tom Clegg      | 05/06/2019 05:04 PM | 100    |       |
| 7577  | Arvados       | Task    | New         | Normal   | arvados-jobs-java-bwa-samtools docker image python sdk is out of date   |                | 10/19/2015 07:35 PM | 0      |       |
| 16371 | Arvados       | Bug     | New         | Normal   | <ArvadosModel::UnresolvableContainerError: docker image "arvados/jobs" not found> (req-3ni7i1prpb9v3ii8ux3b) [API: 422]             |                | 04/25/2020 04:01 PM | 0      |       |
| 17050 | Arvados Epics | Story   | In Progress | Normal   | arvados.org 2.0   |                | 04/07/2022 06:45 PM | 0      |       |
| 17002 | Arvados Epics | Story   | In Progress | Normal   | Arvados Overview Video (Big Picture Video)  |                | 02/16/2022 06:27 PM | 0      |       |
| 16120 | Arvados       | Feature | New         | Normal   | [arvados-server] Add profiling flag to service components   |                | 02/04/2020 03:49 PM | 0      |       |
| 18385 | Arvados       | Bug     | New         | Normal   | arvados-server config-dump   arvados-server config-check -config=-spurious warnings   |                | 11/16/2021 09:06 PM | 0      |       |
| 16552 | Arvados       | Story   | New         | Normal   | "arvados-server init" can get TLS certificates from Let's Encrypt   | Tom Clegg      | 11/05/2021 03:15 PM | 0      |       |
| 18341 | Arvados       | Story   | New         | Normal   | "arvados-server init" can set up a single-node production cluster   |                | 11/08/2021 02:39 PM | 0      |       |
| 18338 | Arvados       | Story   | New         | Normal   | "arvados-server init" can use a local root CA to sign certificates  |                | 11/05/2021 03:27 PM | 0      |       |
| 19150 | Arvados       | Feature | New         | Normal   | `arvados-server install -type=test -test-suite-user=X` should add user X to docker and fuse groups                                  |                | 05/20/2022 05:53 PM | 0      |       |
| 17052 | Arvados       | Bug     | In Progress | Normal   | arvados-server replaces run_test_services.py  |                | 10/28/2020 04:37 PM | 0      |       |
| 10191 | Arvados       | Feature | New         | Normal   | Arvados should be able to cat/zcat files in collections easily  |                | 07/07/2021 06:23 PM | 0      |       |
| 3317  | Arvados       | Task    | New         | Normal   | Arvados source directory is bind mounted into docker image so developers can user docker for development without rebuilding images. |                | 03/09/2017 09:39 PM | 0      |       |
| 16633 | Arvados       | Bug     | New         | Normal   | "Arvados VM" is not defined in the docs   |                | 07/26/2020 10:53 AM | 0      |       |
| 10566 | Arvados       | Bug     | New         | Normal   | arvbox destroy fails because some files are owned by root   |                | 07/07/2021 06:21 PM | 0      |       |
| 10545 | Arvados       | Bug     | New         | Normal   | arvbox loops forever when something goes wrong  | Joshua Randall | 07/07/2021 06:21 PM | 0      |       |
| 14693 | Arvados       | Bug     | In Progress | Normal   | [arvbox] runsv fatal: unable to lock supervise/lock   | Peter Amstutz  | 05/12/2019 09:29 PM | 0      |       |
| 16853 | Arvados       | Bug     | New         | Normal   | [arvbox] various bugs   |                | 09/18/2020 08:55 PM | 0      |       |
| 13343 | Arvados       | Bug     | In Progress | Normal   | arvbox warn if running as root or on OS X   | Peter Amstutz  | 07/06/2021 09:14 PM | 100    |       |
| 13812 | Arvados       | Bug     | New         | Normal   | arv cli continues to cache broken discovery document  |                | 07/13/2018 09:41 PM | 0      |       |

| #     | Project  | Tracker | Status      | Priority | Subject   | Assigned To | Updated             | % Done | Hours |
|-------|----------|---------|-------------|----------|---|-------------|---------------------|--------|-------|
| 11520 | Arvados  | Bug     | New         | Normal   | "arv collection list" command parsing allows invalid lines  |             | 07/06/2021 09:23 PM | 0      |       |
| 7237  | Arvados  | Feature | New         | Normal   | arv-copy ergonomics   |             | 02/06/2020 07:16 PM | 0      |       |
| 14005 | Arvados  | Bug     | New         | Normal   | arv-copy will not create a new collection if copied within the same project   |             | 08/10/2018 01:37 PM | 0      |       |
| 11519 | Arvados  | Bug     | In Progress | Normal   | arv-get should abort on ctrl/C  |             | 07/06/2021 09:17 PM | 0      |       |
| 18218 | Arvados  | Feature | New         | Normal   | ARV GUI: perform operations on files selected via the filter  |             | 09/28/2021 08:30 PM | 0      |       |
| 16336 | Arvados  | Feature | New         | Normal   | arv keep put: accept a URL for server side loading  |             | 04/17/2020 04:46 PM | 0      |       |
| 11093 | Arvados  | Bug     | New         | Normal   | "arv keep_service create" should go to an editor.   |             | 07/07/2021 05:25 PM | 0      |       |
| 13607 | Arvados  | Bug     | New         | Normal   | [arv-mount] avoid excessive memory consumption of idle arv-mounts   |             | 07/06/2021 09:10 PM | 0      |       |
| 12571 | Arvados  | Story   | New         | Normal   | arv-mount by_tag directory support for properties   |             | 07/06/2021 09:11 PM | 0      |       |
| 17413 | Arvados  | Bug     | New         | Normal   | [arv-mount] Exit (instead of undefined behavior) after unhandled exception  |             | 07/06/2021 09:08 PM | 0      |       |
| 15005 | Arvados  | Feature | New         | Normal   | [arv-mount] Fuse operations longer than the crunchstat interval   |             | 03/20/2019 07:49 PM | 0      |       |
| 14972 | Arvados  | Bug     | New         | Normal   | [arv-mount] mount-tmp flag does not start in read/write mode  |             | 03/14/2019 03:42 PM | 0      |       |
| 17942 | Arvados  | Bug     | New         | Normal   | [arv-mount] requests manifest text multiple times when mounting collection  |             | 08/09/2021 03:41 PM | 0      |       |
| 11296 | Arvados  | Bug     | New         | Normal   | [arv-put] bad progress indicator  |             | 07/06/2021 09:24 PM | 0      |       |
| 18576 | Arvados  | Feature | New         | Normal   | arv-put converts properties aliases to vocabulary ids   |             | 04/05/2022 02:53 PM | 0      |       |
| 11605 | Arvados  | Feature | New         | Normal   | arv-put detects symlinks to common files and directories to avoid duplicated uploads  |             | 07/06/2021 09:22 PM | 0      |       |
| 11405 | Arvados  | Bug     | New         | Normal   | [arv-put] Lumpy / slow upload   |             | 07/06/2021 09:23 PM | 0      |       |
| 17764 | Arvados  | Bug     | New         | Normal   | [arv-put] progress update does not refresh frequently enough  |             | 07/06/2021 09:08 PM | 0      |       |
| 16426 | Arvados  | Bug     | New         | Normal   | [arv-put] should calculate (worst case) manifest size up front before upload, and abort when it is too large  |             | 07/06/2021 09:08 PM | 0      |       |
| 11157 | Arvados  | Bug     | New         | Normal   | [arv-put] When debug mode is active, report the cache file name being to be used  |             | 07/07/2021 05:25 PM | 0      |       |
| 3738  | Arvados  | Task    | New         | Normal   | arv-run-pipeline-instance: display workbench URI instead of the bare uuid   |             | 07/06/2021 09:27 PM | 0      |       |
| 13325 | Arvados  | Story   | New         | Normal   | As a CWL learner, I would like to be able to run CWL workflows easily on playground   |             | 07/06/2021 09:10 PM | 0      |       |
| 13326 | Arvados  | Story   | New         | Normal   | As a data provider, I would like the ability to provide metered access to my data on Arvados, including start/end dates, bandwidth caps, and % of file accessed |             | 07/06/2021 09:10 PM | 0      |       |
| 1427  | Tapestry | Feature | New         | Normal   | As an administrator, I can see the (not-actually-public) public profile page of a suspended participant / participant who withdrew and requested data removal   |             | 10/28/2013 04:36 PM | 0      |       |
| 1384  | Tapestry | Feature | New         | Normal   | As a participant, I can remove traitwise survey results from my public profile  |             | 10/28/2013 04:51 PM | 0      |       |
| 1385  | Tapestry | Feature | New         | Normal   | As a participant, I can see a list of datasets contributed by 3rd party studies, which I can inspect (download) and release to my public profile                |             | 10/28/2013 04:52 PM | 0      |       |

| #     | Project             | Tracker | Status      | Priority | Subject  | Assigned To    | Updated             | % Done | Hours |
|-------|---------------------|---------|-------------|----------|--|----------------|---------------------|--------|-------|
| 2980  | Tapestry            | Bug     | New         | Normal   | attempting to authorize a disabled page should not redirect                              | Phil Hodgson   | 06/06/2014 08:49 AM | 0      |       |
| 17100 | Arvados             | Feature | New         | Normal   | Audit logs should include current/logged in user   |                | 11/09/2020 04:37 PM | 0      |       |
| 1520  | Tapestry            | Bug     | New         | Normal   | auto-enrollment feature should be configurable   | Ward Vandewege | 09/20/2013 01:33 PM | 0      |       |
| 9960  | Arvados             | Story   | New         | Normal   | Automate starting/enabling services during Workbench and API package installation        |                | 07/07/2021 06:23 PM | 0      |       |
| 4827  | Lightning           | Story   | New         | Normal   | Automatic Deployment Implementation  | Abram Connelly | 05/28/2019 05:31 PM | 0      |       |
| 18727 | Arvados Epics       | Story   | New         | Normal   | Avoid configuration skew between different services and hosts                            |                | 02/18/2022 09:12 PM | 0      |       |
| 14577 | Arvados Workbench 2 | Feature | New         | Normal   | [Backend] User name  |                | 06/26/2019 07:29 PM | 0      |       |
| 18464 | Arvados             | Feature | New         | Normal   | Batch update endpoint for permission changes   |                | 11/22/2021 03:33 PM | 0      |       |
| 12028 | Arvados             | Feature | New         | Normal   | Be able to create a new collection based on a subdirectory in workbench                  |                | 07/06/2021 09:20 PM | 0      |       |
| 17354 | Arvados             | Feature | New         | Normal   | Be able to inject additional documentation text into WebDAV/s3 info dialog               |                | 02/09/2021 03:51 PM | 0      |       |
| 13351 | Arvados             | Bug     | In Progress | Normal   | Benchmark container_request creation and see if there are opportunities for optimization | Peter Amstutz  | 07/06/2021 09:14 PM | 0      |       |
| 15364 | Arvados             | Story   | New         | Normal   | Better CWL onboarding  |                | 07/06/2021 09:08 PM | 0      |       |
| 13676 | Arvados             | Bug     | New         | Normal   | better error dialog for un-allowed repo names  |                | 04/22/2020 09:08 PM | 0      |       |
| 16344 | Arvados             | Bug     | New         | Normal   | Better logging of token rejection  |                | 10/07/2020 04:07 PM | 0      |       |
| 16348 | Arvados             | Feature | New         | Normal   | Better metrics of keepstore bandwidth usage (especially on back end)                     |                | 04/22/2020 03:54 PM | 0      |       |
| 18179 | Arvados Epics       | Story   | New         | Normal   | Better spot instance support   |                | 03/23/2022 01:47 PM | 0      |       |
| 3189  | Arvados             | Task    | New         | Normal   | [Blocker] Clarify design/requirements  | Tom Clegg      | 10/03/2014 04:52 PM | 0      |       |
| 16034 | Arvados             | Bug     | In Progress | Normal   | ---- bookmark ---  |                | 02/25/2020 09:28 PM | 0      |       |
| 17345 | Arvados             | Bug     | New         | Normal   | [boot] handle dependency upgrades better in "arvados-package build"                      |                | 07/06/2021 09:12 PM | 0      |       |
| 17344 | Arvados             | Story   | New         | Normal   | [boot] Make arvados-server-easy package suitable for demo use case                       | Tom Clegg      | 07/06/2021 09:12 PM | 0      |       |
| 16069 | Arvados             | Story   | New         | Normal   | [boot] start a dev cluster   |                | 01/22/2020 07:34 PM | 0      |       |
| 1370  | GET-Evidence        | Bug     | New         | Normal   | broken link  |                | 01/22/2013 08:51 PM | 0      |       |
| 2545  | Tapestry            | Bug     | New         | Normal   | broken links on /admin/removal_requests  |                | 04/07/2014 01:29 PM | 0      |       |
| 16123 | Arvados             | Bug     | New         | Normal   | Browsing trash produces spurious errors  |                | 06/19/2020 02:33 PM | 0      |       |
| 14509 | Arvados Workbench 2 | Bug     | New         | Normal   | [Bug][Graph] Cwl graph edges are not painted   |                | 02/12/2020 04:02 PM | 0      |       |
| 16658 | Arvados             | Bug     | New         | Normal   | [Bug] "Move/Copy To" Dialog does not list all possible target locations.                 |                | 07/30/2020 05:31 PM | 0      |       |
| 13794 | Arvados             | Story   | New         | Normal   | Build Docker images without requiring Docker on client                                   |                | 07/06/2021 09:10 PM | 0      |       |
| 14732 | Arvados Workbench 2 | Bug     | New         | Normal   | Build failed in Jenkins - new configuration  |                | 01/15/2019 01:50 PM | 0      |       |

| #     | Project      | Tracker | Status      | Priority | Subject  | Assigned To      | Updated             | % Done | Hours |
|-------|--------------|---------|-------------|----------|--|------------------|---------------------|--------|-------|
| 17159 | Arvados      | Bug     | New         | Normal   | [build] make build-packages-python-ruby run on a Jenkins satellite   |                  | 11/23/2020 04:25 PM | 0      |       |
| 14011 | Arvados      | Bug     | New         | Normal   | build/run-library.sh version_from_git function dumps environment when not in a git repo                            |                  | 08/10/2018 04:43 PM | 0      |       |
| 18347 | Arvados      | Feature | New         | Normal   | Cache negative token lookups in federation/OIDC  |                  | 11/23/2021 09:07 PM | 0      |       |
| 539   | GET-Evidence | Feature | New         | Normal   | call synonymous amino acids that match pathogenic reference alleles (e.g. F5 R534R)                                |                  | 03/08/2011 06:53 PM | 0      |       |
| 16574 | Arvados      | Feature | New         | Normal   | Can limit which users can submit container requests.   |                  | 08/02/2021 08:24 PM | 0      |       |
| 19144 | Arvados      | Bug     | New         | Normal   | Cannot copy collections on workbench1  |                  | 05/19/2022 06:15 PM | 0      |       |
| 16115 | Arvados      | Feature | In Progress | Normal   | Cannot create "sharing" links (missing wb1 feature)  | Lucas Di Pentima | 05/24/2022 12:20 PM | 0      |       |
| 17158 | Arvados      | Bug     | New         | Normal   | Cannot execute a registered CommandLineTool, only Workflow   |                  | 11/23/2020 04:20 PM | 0      |       |
| 18171 | Arvados      | Bug     | New         | Normal   | cannot view HTMLs from arvados workbench   |                  | 09/27/2021 07:19 PM | 0      |       |
| 16583 | Arvados      | Feature | In Progress | Normal   | Can programmatically distinguish between final outputs (results of top-level containers) and intermediate outputs. | Peter Amstutz    | 05/23/2022 02:00 PM | 0      |       |
| 19086 | Arvados      | Feature | New         | Normal   | Can provide input JSON/YAML when launching a Workflow as an alternative to the input form                          | Peter Amstutz    | 05/19/2022 07:11 PM | 0      |       |
| 14116 | Arvados      | Bug     | New         | Normal   | c-d-s reniceAll does not wait for complete information on Arvados jobs   |                  | 08/24/2018 02:23 AM | 0      |       |
| 14117 | Arvados      | Bug     | New         | Normal   | c-d-s reniceAll sets nice on jobs that are not pending   |                  | 08/24/2018 11:35 AM | 0      |       |
| 14115 | Arvados      | Bug     | New         | Normal   | c-d-s reniceAll takes a very long time and holds up SqueueChecker updates and initial job submission               |                  | 08/24/2018 01:11 PM | 0      |       |
| 10296 | Arvados      | Bug     | New         | Normal   | [Centos7] [google_api_python_client] packaging with wrong permissions  |                  | 07/07/2021 06:22 PM | 0      |       |
| 9411  | Tapestry     | Support | New         | Normal   | Change 30 day release window to 31 days  |                  | 06/15/2016 04:14 PM | 0      |       |
| 8697  | Tapestry     | Feature | In Progress | Normal   | Check for finished download/processing jobs  | Tom Clegg        | 03/24/2016 06:48 PM | 0      |       |
| 17149 | Arvados      | Feature | New         | Normal   | Checkpoint / snapshot to support migrating tasks when more memory is needed  |                  | 11/19/2020 10:42 AM | 0      |       |
| 6647  | Arvados      | Story   | New         | Normal   | Choose an option to make better service discoveries in deployments   |                  | 07/06/2021 09:11 PM | 0      |       |
| 3437  | Arvados      | Bug     | New         | Normal   | "Choose folder" dialog when running a pipeline displays folders you can't write to                                 |                  | 07/06/2021 09:27 PM | 0      |       |
| 3192  | Arvados      | Task    | New         | Normal   | Clarify requirements/implementation  | Tom Clegg        | 03/09/2017 09:35 PM | 0      |       |
| 15537 | Arvados      | Bug     | New         | Normal   | Clarify that Arvados CLI tools are Linux only  |                  | 07/06/2021 09:12 PM | 0      |       |
| 490   | GET-Evidence | Feature | In Progress | Normal   | Classify web-hits as relevant/not-relevant   | Tom Clegg        | 09/01/2011 07:16 PM | 80     |       |
| 18292 | Arvados      | Bug     | New         | Normal   | [cleanup] remove AssignNodeHostname from the configuration. Also from the documentation.                           |                  | 10/22/2021 09:24 PM | 0      |       |
| 509   | GET-Evidence | Bug     | New         | Normal   | Clean up runt variants imported by PharmGKB  | Tom Clegg        | 02/16/2011 02:54 PM | 0      |       |
| 13874 | Arvados      | Story   | New         | Normal   | [CLI] arvados-server "health" subcommand   |                  | 07/06/2021 09:14 PM | 0      |       |
| 13875 | Arvados      | Story   | New         | Normal   | [CLI] arvados-server "metrics" subcommand  |                  | 07/20/2018 02:52 AM | 0      |       |

| #     | Project             | Tracker | Status      | Priority | Subject   | Assigned To      | Updated             | % Done | Hours |
|-------|---------------------|---------|-------------|----------|---|------------------|---------------------|--------|-------|
| 13876 | Arvados             | Story   | New         | Normal   | [CLI] arvados-server "status" subcommand  |                  | 07/20/2018 02:58 AM | 0      |       |
| 13813 | Arvados             | Bug     | New         | Normal   | [CLI] arv traceback on simple timeout   | Lucas Di Pentima | 04/28/2021 03:55 PM | 0      |       |
| 16566 | Arvados             | Bug     | New         | Normal   | [cli] can't create a token when using a token created with create_superuser_token.rb        |                  | 07/06/2021 09:08 PM | 0      |       |
| 9980  | Arvados             | Bug     | New         | Low      | [CLI] Trailing blank lines in ~/.config/arvados/settings.conf should be ignored             |                  | 02/06/2020 07:16 PM | 0      |       |
| 16640 | Arvados             | Feature | New         | Normal   | Cluster c97qk interferes with proper search function  |                  | 07/30/2020 05:00 PM | 0      |       |
| 6164  | GET-Evidence        | Task    | New         | Normal   | Code review   |                  | 05/27/2015 08:21 PM | 0      |       |
| 6085  | GET-Evidence        | Task    | New         | Normal   | Code review branch 5883-oauth2-update   |                  | 05/19/2015 08:15 PM | 0      |       |
| 16858 | Arvados Epics       | Story   | New         | Normal   | Collection check in / check out   |                  | 02/18/2022 09:55 PM | 0      |       |
| 10554 | Arvados             | Bug     | New         | Normal   | Collection file count & size information don't get dynamically updated on collection update |                  | 07/07/2021 06:21 PM | 0      |       |
| 18724 | Arvados             | Bug     | New         | Normal   | Collection file_names should contain full paths for substring matching                      |                  | 03/01/2022 09:11 PM | 0      |       |
| 18787 | Arvados Workbench 2 | Bug     | In Progress | Normal   | Collection's file browser re-rendering issues   | Lucas Di Pentima | 05/09/2022 11:56 AM | 0      |       |
| 9661  | Arvados             | Feature | New         | Normal   | collection update performance improvement   |                  | 02/06/2020 07:00 PM | 0      |       |
| 16071 | Arvados Workbench 2 | Story   | New         | Normal   | [Collection view] Provenance, used by for collections                                       |                  | 03/23/2022 03:45 PM | 0      |       |
| 16057 | Arvados Workbench 2 | Story   | New         | Normal   | Combine selected collections  |                  | 02/12/2020 02:51 PM | 0      |       |
| 16300 | Arvados Workbench 2 | Story   | New         | Normal   | Compare 2 collection versions   |                  | 04/01/2020 01:47 PM | 0      |       |
| 12527 | Arvados             | Story   | New         | Normal   | [Composer] Refactor to separate vendor-specific pieces and all them to be replaced          | Peter Amstutz    | 07/06/2021 09:11 PM | 0      |       |
| 13675 | Arvados             | Feature | New         | Normal   | [Composer/Workbench] Import of public git repo to a new Arvados repository                  |                  | 07/06/2021 09:10 PM | 0      |       |
| 2850  | Tapestry            | Story   | New         | Normal   | Comprehensive "Sectioning" of Tapestry  | Phil Hodgson     | 06/20/2014 05:24 PM | 33     |       |
| 15960 | Arvados Epics       | Story   | New         | Normal   | Computing on external data  |                  | 05/09/2022 03:20 PM | 0      |       |
| 17745 | Arvados             | Bug     | New         | Normal   | [config] arvados-server config-dump with ec2 driver has confusing output                    |                  | 07/06/2021 09:08 PM | 0      |       |
| 18937 | Arvados             | Feature | New         | Low      | [config] simplify AnonymousUserToken configuration  |                  | 05/06/2022 06:48 PM | 0      |       |
| 18563 | Arvados             | Bug     | New         | Normal   | [config] simplify/streamline InternalURLs/ExternalURL situation                             |                  | 05/06/2022 05:49 PM | 0      |       |
| 2552  | Tapestry            | Story   | New         | Normal   | Configurable mini-consent form and validations  | Phil Hodgson     | 06/10/2014 10:28 AM | 0      |       |
| 10177 | Arvados             | Bug     | New         | Normal   | Confusing job duration reporting  |                  | 07/07/2021 06:23 PM | 0      |       |
| 2966  | Tapestry            | Task    | New         | Normal   | Consider a section option for Absolute Pitch Survey   | Phil Hodgson     | 06/04/2014 12:59 PM | 0      |       |
| 17116 | Arvados             | Story   | New         | Normal   | Consider excluding api_client_authorization from audit logs by default.                     |                  | 11/16/2020 04:23 PM | 0      |       |

| #     | Project | Tracker | Status      | Priority | Subject  | Assigned To | Updated             | % Done | Hours |
|-------|---------|---------|-------------|----------|--|-------------|---------------------|--------|-------|
| 18948 | Arvados | Story   | New         | Normal   | Container exit_code should be updated earlier, before copying staged outputs   |             | 05/06/2022 05:45 PM | 0      |       |
| 16972 | Arvados | Bug     | New         | Normal   | Container request page doesn't refresh   |             | 10/07/2020 06:33 PM | 0      |       |
| 18996 | Arvados | Bug     | New         | Normal   | Container request's expires_at field   |             | 05/06/2022 06:40 PM | 0      |       |
| 17110 | Arvados | Feature | New         | Normal   | Container reuse on sub-workflows and chunks of scatter inputs  |             | 11/13/2020 03:54 PM | 0      |       |
| 18677 | Arvados | Feature | New         | Normal   | Container runtime metrics API  |             | 01/25/2022 06:56 PM | 0      |       |
| 13102 | Arvados | Bug     | New         | Normal   | containers are not reused unless runtime constraints (including RAM) match exactly                                       |             | 07/06/2021 09:10 PM | 0      |       |
| 17878 | Arvados | Bug     | New         | Normal   | [container shell] confusing error "channel 3: bad ext data" when forwarding tcp traffic into a container with API: false |             | 07/08/2021 05:21 PM | 0      |       |
| 18863 | Arvados | Feature | New         | Normal   | [controller] add background job to clean up old container log records  |             | 05/06/2022 06:49 PM | 0      |       |
| 15082 | Arvados | Feature | New         | Normal   | [controller] [all services] Publish entire config including secrets  |             | 07/06/2021 09:09 PM | 0      |       |
| 18009 | Arvados | Bug     | New         | Normal   | [controller] always returns an empty "unsigned_manifest_text" field for collections                                      |             | 08/11/2021 05:15 PM | 0      |       |
| 15457 | Arvados | Feature | New         | Normal   | [Controller] Delegate new container requests to other clusters based on location of input data                           |             | 07/06/2021 09:12 PM | 0      |       |
| 16453 | Arvados | Story   | New         | Normal   | [controller] Expand config comment about LDAP search filters   |             | 05/20/2020 03:33 PM | 0      |       |
| 16160 | Arvados | Feature | New         | Normal   | controller exports metrics per endpoint  |             | 05/06/2020 02:30 PM | 0      |       |
| 17209 | Arvados | Feature | In Progress | Normal   | Controller forwards web requests to crunch worker nodes  | Tom Clegg   | 05/11/2021 07:10 PM | 0      |       |
| 17037 | Arvados | Feature | New         | Normal   | [controller] Improve use of given_name/family_name fields for generic OpenID Connect providers                           |             | 10/21/2020 05:33 PM | 0      |       |
| 14004 | Arvados | Story   | New         | Normal   | [Controller] Keep database in tune   |             | 07/06/2021 09:10 PM | 0      |       |
| 17940 | Arvados | Bug     | New         | Normal   | [controller] memory management issues  |             | 08/09/2021 03:40 PM | 0      |       |
| 17038 | Arvados | Feature | New         | Normal   | [controller] Option to request additional scopes, and verify additional claims, during OpenID Connect auth               |             | 05/19/2021 09:04 PM | 0      |       |
| 13997 | Arvados | Story   | New         | Normal   | [Controller] Port "collection update" API from Rails   |             | 07/06/2021 09:10 PM | 0      |       |
| 13995 | Arvados | Story   | New         | Normal   | [Controller] Port "collection update" functional tests from Rails API to controller test suite                           |             | 07/06/2021 09:10 PM | 0      |       |
| 14257 | Arvados | Feature | New         | Normal   | [controller] refresh manifest API  |             | 07/06/2021 09:09 PM | 0      |       |
| 17681 | Arvados | Bug     | New         | Normal   | [controller] seems to have a really long timeout for its db connection   |             | 06/08/2021 05:52 PM | 0      |       |
| 18944 | Arvados | Feature | New         | Normal   | [controller] should log the user uuid used for the request   |             | 05/06/2022 05:44 PM | 0      |       |
| 18969 | Arvados | Bug     | New         | Normal   | Controller should monitor its own memory usage and pause requests handling when memory usage is high                     |             | 04/05/2022 02:53 PM | 0      |       |
| 19057 | Arvados | Bug     | New         | Normal   | [controller] should not allow adding the same user to a VM more than one time  |             | 05/06/2022 03:25 PM | 0      |       |
| 17468 | Arvados | Feature | New         | Normal   | [controller] Skip repetitive OIDC UserInfo calls if access token validates as an ID token                                |             | 07/06/2021 09:11 PM | 0      |       |

| #     | Project             | Tracker | Status      | Priority | Subject  | Assigned To      | Updated             | % Done | Hours |
|-------|---------------------|---------|-------------|----------|--|------------------|---------------------|--------|-------|
| 13574 | Arvados             | Story   | New         | Normal   | [Controller] Update container priorities asynchronously  |                  | 04/22/2020 09:00 PM | 0      |       |
| 11675 | Lightning           | Story   | New         | Normal   | Convert Harvard PGP exome data to CGF  |                  | 04/30/2019 05:27 PM | 0      |       |
| 11674 | Lightning           | Story   | New         | Normal   | Convert openSNP genotyping data to CGF   |                  | 05/15/2019 05:53 PM | 0      |       |
| 16872 | Arvados             | Support | New         | Normal   | Convert WDL workflows to CWL, with notes   | Jiayong Li       | 10/30/2020 04:11 PM | 0      |       |
| 17576 | Arvados             | Bug     | New         | Normal   | Copy collection link includes style  |                  | 04/22/2021 06:54 AM | 0      |       |
| 13557 | Arvados             | Feature | New         | Normal   | Copying a container request should link to the original container request  |                  | 07/06/2021 09:09 PM | 0      |       |
| 19048 | Arvados             | Bug     | New         | Normal   | Copying a folder in collection file browser results in empty folder  |                  | 05/06/2022 05:48 PM | 0      |       |
| 12198 | Arvados             | Bug     | New         | Normal   | Copying a project with a docker image doesn't copy the docker metadata   |                  | 07/06/2021 09:11 PM | 0      |       |
| 16130 | Arvados             | Bug     | New         | Normal   | Copying container request gets error   |                  | 10/05/2020 06:54 PM | 0      |       |
| 18198 | Arvados             | Bug     | New         | Normal   | "copy selected files into collection" function in WB2 extremely slow   |                  | 09/27/2021 07:45 PM | 0      |       |
| 18587 | Arvados Workbench 2 | Bug     | New         | Normal   | "Copy selected into collection" incorrect behavior   | Lucas Di Pentima | 02/02/2022 04:00 PM | 0      |       |
| 17291 | Arvados             | Bug     | New         | Normal   | Copy selected to collection issue  |                  | 01/25/2021 04:59 PM | 0      |       |
| 17695 | Arvados             | Feature | In Progress | Normal   | [costanalyzer] make an accurate report for spot instances on AWS   |                  | 09/22/2021 08:47 PM | 0      |       |
| 3498  | Arvados             | Feature | New         | Normal   | Counting the number your pipelines were used by unique users   |                  | 08/16/2014 04:51 PM | 0      |       |
| 11746 | Lightning           | Story   | New         | Normal   | Covnert hg19 to FastJ and CGF  |                  | 04/30/2019 05:56 PM | 0      |       |
| 5001  | Lightning           | Story   | New         | Normal   | Create a API interface to the public tile library including a "beacon"   | Abram Connelly   | 05/28/2019 05:34 PM | 100    |       |
| 17613 | Arvados             | Feature | New         | Normal   | "created_by_uuid" field  |                  | 05/05/2021 03:49 PM | 0      |       |
| 17510 | Arvados             | Feature | New         | Normal   | Create filter group based on an advanced search query in the UI  |                  | 09/10/2021 01:33 PM | 0      |       |
| 17838 | Arvados             | Feature | New         | Normal   | Create filter group from advanced search   |                  | 08/05/2021 03:27 PM | 0      |       |
| 18210 | Arvados             | Bug     | New         | Normal   | Create Mountinduck Bookmark files not working  |                  | 09/28/2021 07:14 PM | 0      |       |
| 12171 | Lightning           | Story   | New         | Normal   | Create tests for 'tile-ncpy' programs  |                  | 04/30/2019 05:53 PM | 0      |       |
| 13080 | Arvados Epics       | Story   | New         | Normal   | Create/upload workflows through Workbench  |                  | 01/26/2022 02:55 PM | 0      |       |
| 19089 | Arvados Epics       | Task    | New         | Normal   | Cross-federation filter groups   |                  | 05/02/2022 04:49 PM | 0      |       |
| 10689 | Arvados             | Bug     | New         | Normal   | Crunch1 jobs should still work on a slurm setup configured for Crunch2   |                  | 07/07/2021 06:21 PM | 0      |       |
| 13005 | Arvados             | Bug     | New         | Normal   | [Crunch2] All stdout gets the same timestamp and other logging problems  |                  | 07/06/2021 09:10 PM | 0      |       |
| 10298 | Arvados             | Bug     | New         | Normal   | [Crunch2] [API] Accept collection UUID or PDH as container_image in a container request                                |                  | 07/06/2021 09:11 PM | 0      |       |
| 9969  | Arvados             | Bug     | In Progress | Normal   | [Crunch2] [API] Permit container [request] with empty command (run default docker command)                             |                  | 07/07/2021 06:23 PM | 0      |       |
| 10705 | Arvados             | Bug     | New         | Normal   | [Crunch2] [API] return a more specific 422 error message when a client calls containers#unlock without having the lock |                  | 07/07/2021 06:21 PM | 0      |       |
| 9968  | Arvados             | Feature | New         | Normal   | [Crunch2] [API] Support container request expiry (expires_at)  |                  | 07/07/2021 06:23 PM | 0      |       |
| 14912 | Arvados             | Feature | New         | Normal   | [Crunch2] Azure driver supports attaching extra storage  |                  | 07/06/2021 09:12 PM | 0      |       |

| #     | Project | Tracker | Status      | Priority | Subject  | Assigned To      | Updated             | % Done | Hours |
|-------|---------|---------|-------------|----------|--|------------------|---------------------|--------|-------|
| 9046  | Arvados | Story   | New         | Normal   | [Crunch2] Can issue container request to pull and import Docker images   |                  | 07/06/2021 09:09 PM | 0      |       |
| 11741 | Arvados | Story   | New         | Normal   | [Crunch2] Create workflow object for CWL runs which are initiated from the command line  |                  | 07/06/2021 09:22 PM | 0      |       |
| 9630  | Arvados | Bug     | New         | Normal   | [Crunch2] crunch-dispatch-slurm can't successfully dispatch work when run from a directory it can't write to                         |                  | 07/07/2021 06:23 PM | 0      |       |
| 11669 | Arvados | Bug     | In Progress | Normal   | [Crunch2] crunch-dispatch-slurm hits scancel too much  |                  | 07/06/2021 09:22 PM | 0      |       |
| 10708 | Arvados | Bug     | New         | Normal   | [Crunch2] crunch-run fails trying to set swappiness on ubuntu 1204 kernel  |                  | 07/07/2021 06:21 PM | 0      |       |
| 12900 | Arvados | Feature | New         | Normal   | [Crunch2] [crunch-run] Prune old images before installing image for current container  |                  | 12/07/2021 03:31 PM | 0      |       |
| 9278  | Arvados | Story   | In Progress | Normal   | [Crunch2] Document/fix handling of collections with non-nil expires_at field   |                  | 07/07/2021 06:25 PM | 100    |       |
| 8570  | Arvados | Feature | New         | Normal   | [Crunch2] Impure access to object store  |                  | 04/25/2018 03:13 PM | 0      |       |
| 8569  | Arvados | Feature | New         | Normal   | [Crunch2] Impure mount from host fs  |                  | 04/25/2018 03:13 PM | 0      |       |
| 12430 | Arvados | Feature | New         | Normal   | Crunch2 limit output collection to glob patterns   |                  | 02/12/2020 02:28 PM | 0      |       |
| 15135 | Arvados | Feature | New         | Normal   | [Crunch2] Post-run hooks   |                  | 07/06/2021 09:08 PM | 0      |       |
| 11148 | Arvados | Bug     | New         | Normal   | [Crunch2] Propagate dispatch error messages (e.g., sbatch fails) to user via logs/websocket  |                  | 07/07/2021 05:25 PM | 0      |       |
| 10729 | Arvados | Bug     | New         | Normal   | [Crunch2] Propagate error messages if sbatch command succeeds but crunch-run can't run (or can't log to the Arvados API)             |                  | 07/07/2021 06:21 PM | 0      |       |
| 9044  | Arvados | Story   | New         | Normal   | [Crunch2] [Workbench] Browse and show tools using the GA4GH tool registry API  | Radhika Chippada | 02/06/2020 06:51 PM | 0      |       |
| 11146 | Arvados | Feature | New         | Normal   | [Crunch2] [Workbench] Show slurm queue position of containers submitted to slurm but not yet running                                 |                  | 07/07/2021 05:25 PM | 0      |       |
| 18163 | Arvados | Feature | New         | Normal   | [Crunch] add CWL extension to limit the number of concurrently running jobs during a scatter   |                  | 01/10/2022 03:42 PM | 0      |       |
| 7880  | Arvados | Bug     | New         | Normal   | [Crunch] crunch-dispatch should run the bundled version of crunch-job specified by Gemfile.lock                                      |                  | 07/07/2021 06:27 PM | 0      |       |
| 7845  | Arvados | Feature | New         | Normal   | [Crunch] Crunchstat and arv-mount print final stats before exiting   |                  | 07/07/2021 06:27 PM | 0      |       |
| 5523  | Arvados | Bug     | New         | Normal   | [Crunch] crunchstat should not report errors during normal timing races  | Tom Clegg        | 07/07/2021 06:30 PM | 50     |       |
| 14922 | Arvados | Feature | New         | Normal   | [crunch-dispatch-cloud] Run multiple containers concurrently on a single VM  |                  | 07/06/2021 09:13 PM | 0      |       |
| 13991 | Arvados | Bug     | New         | Normal   | crunch-dispatch-slurm does not warn when slurm MaxJobCount reached   |                  | 07/06/2021 09:10 PM | 0      |       |
| 13982 | Arvados | Bug     | New         | Normal   | crunch-dispatch-slurm / Go SDK Dispatcher not able to "let go" of deleted containers   |                  | 07/06/2021 09:10 PM | 0      |       |
| 14021 | Arvados | Feature | New         | Normal   | [crunch-dispatch-slurm] option to set job priority directly instead of using nice values   |                  | 07/06/2021 09:09 PM | 0      |       |
| 13795 | Arvados | Bug     | New         | Normal   | crunch-dispatch-slurm too polite about killing containers  |                  | 07/11/2018 11:06 PM | 0      |       |
| 13142 | Arvados | Bug     | New         | Normal   | crunch-dispatch-slurm uses a surprising number of file descriptors, and stops dispatching when it gets a "too many open files" error |                  | 07/06/2021 09:15 PM | 100    |       |



| #     | Project | Tracker | Status | Priority | Subject  | Assigned To    | Updated             | % Done | Hours |
|-------|---------|---------|--------|----------|--|----------------|---------------------|--------|-------|
| 4494  | Arvados | Bug     | New    | Normal   | [Crunch] Do more error-checking and show more diagnostic info when installing a Docker image   |                | 07/07/2021 06:35 PM | 0      |       |
| 8121  | Arvados | Bug     | New    | Normal   | [CRUNCH] Fail gracefully when arvados repo doesn't exists  |                | 07/07/2021 06:27 PM | 0      |       |
| 5459  | Arvados | Feature | New    | Normal   | [Crunch] Job logs include node-level resource usage statistics (cpu, ram, swap, etc)   |                | 07/07/2021 06:30 PM | 0      |       |
| 3801  | Arvados | Task    | New    | Normal   | crunch-job should treat intermittent Docker failures as temporary failures   |                | 03/09/2017 09:43 PM | 0      |       |
| 10514 | Arvados | Bug     | New    | Normal   | [crunch-job] use docker instead of docker.io   |                | 07/07/2021 06:22 PM | 0      |       |
| 8869  | Arvados | Bug     | New    | Normal   | [Crunch] Job was repeatedly retried on same bad compute node until abandoned   |                | 07/07/2021 06:25 PM | 0      |       |
| 8774  | Arvados | Story   | New    | Normal   | [Crunch] Limit maximum wait time between retries   |                | 07/07/2021 06:25 PM | 0      |       |
| 3093  | Arvados | Story   | New    | Normal   | [Crunch] Pipeline can use other pipelines templates as components  |                | 07/05/2014 09:34 PM | 0      |       |
| 4302  | Arvados | Feature | New    | Normal   | [Crunch] Pipelines should not fail immediately after one job failure, but continue running as much as possible                           |                | 07/07/2021 06:35 PM | 0      |       |
| 4833  | Arvados | Story   | New    | Normal   | [Crunch] Quick turnaround time when updating a docker image in order to re-run a job   |                | 07/07/2021 06:31 PM | 0      |       |
| 5865  | Arvados | Story   | New    | Normal   | [Crunch] Run a local job using a docker image directly from the shell VM (without writing the docker image to Keep)                      |                | 07/07/2021 06:30 PM | 0      |       |
| 13403 | Arvados | Feature | New    | Normal   | [crunch-run] Cancel container on FUSE error  |                | 07/06/2021 09:13 PM | 0      |       |
| 18960 | Arvados | Feature | New    | Normal   | crunch-run can use Go FUSE driver for read-only mounts   |                | 05/04/2022 03:17 PM | 0      |       |
| 4726  | Arvados | Bug     | New    | Normal   | [Crunch] run-command should show helpful error message when task.foreach argument is not a list  |                | 07/07/2021 06:31 PM | 0      |       |
| 18262 | Arvados | Bug     | New    | Normal   | [crunch-run] handle out-of-diskspace on the compute node better  |                | 10/08/2021 09:42 PM | 0      |       |
| 12170 | Arvados | Bug     | New    | Normal   | crunch-run handling non-group readable files in output directory   |                | 07/06/2021 09:19 PM | 0      |       |
| 17347 | Arvados | Bug     | New    | Normal   | crunch-run --list fatal error out of memory  |                | 02/05/2021 05:22 PM | 0      |       |
| 17206 | Arvados | Feature | New    | Normal   | crunch-run reverse proxies HTTP requests to container  |                | 01/19/2021 07:00 PM | 0      |       |
| 13636 | Arvados | Bug     | New    | Normal   | crunch-run takes a very long time for CWL steps with large numbers of File inputs - could use a new kind of mounts entry to address this |                | 07/06/2021 09:10 PM | 0      |       |
| 14952 | Arvados | Story   | New    | Normal   | [crunchstat-summary] Add arv-mount FUSE ops time   |                | 07/06/2021 09:25 PM | 0      |       |
| 12854 | Arvados | Bug     | New    | Normal   | [crunchstat-summary] broken option for skip child jobs?  |                | 07/06/2021 09:10 PM | 0      |       |
| 10531 | Arvados | Bug     | New    | Normal   | [crunchstat-summary] HTML plots should be a superset of text format output   |                | 07/07/2021 06:22 PM | 0      |       |
| 19092 | Arvados | Bug     | New    | Normal   | crunchstat-summary not in PyPi   | Ward Vandewege | 05/11/2022 03:24 PM | 0      |       |
| 8573  | Arvados | Story   | New    | Normal   | crunchstat-summary should calculate averages of all metrics  |                | 07/06/2021 09:11 PM | 0      |       |
| 10390 | Arvados | Bug     | New    | Normal   | crunchstat-summary should explain why "(no report generated)" when possible  |                | 07/06/2021 09:11 PM | 0      |       |

| #     | Project             | Tracker | Status      | Priority | Subject   | Assigned To | Updated             | % Done | Hours |
|-------|---------------------|---------|-------------|----------|---|-------------|---------------------|--------|-------|
| 14997 | Arvados             | Story   | New         | Normal   | [crunchstat-summary] Support multiple data series per graph (e.g. TX/RX, user/sys CPU, etc)   |             | 07/06/2021 09:09 PM | 0      |       |
| 7600  | Arvados             | Bug     | New         | Normal   | [Crunch] Unhelpful translation of script parameter outside script_parameters  |             | 07/07/2021 06:28 PM | 0      |       |
| 5133  | Arvados             | Feature | New         | Normal   | [Crunch] Use uncommitted code in a git work tree to run a dockerized crunch job in a VM (using crunch-job or arv-run-pipeline-instance --run-jobs-here) |             | 07/07/2021 06:30 PM | 0      |       |
| 7328  | Arvados             | Feature | New         | Normal   | [Crunch] [UX] Standard excepthook to help debug job problems  |             | 07/07/2021 06:28 PM | 0      |       |
| 12465 | Arvados             | Bug     | New         | Normal   | [crunchv2] Improve crunch-run environment reporting   |             | 07/06/2021 09:16 PM | 0      |       |
| 11027 | Arvados             | Bug     | New         | Normal   | [Crunchv2] python thread error after job success  |             | 07/07/2021 05:26 PM | 0      |       |
| 3180  | Arvados             | Story   | New         | Normal   | [Crunch] When a job fails in a pipeline instance, should the other queued/running jobs get cancelled automatically?                                     |             | 10/03/2014 04:52 PM | 0      |       |
| 6009  | Arvados             | Feature | New         | Normal   | curover.se/path/to/file should try to download the file if available  |             | 01/15/2020 07:50 PM | 0      |       |
| 17577 | Arvados             | Bug     | New         | Normal   | Current description not shown under Edit Project  |             | 04/22/2021 06:55 AM | 0      |       |
| 16038 | Arvados Workbench 2 | Bug     | New         | Normal   | Custom Enum Type in the workflow breaks the Workflow runner Wizard  |             | 02/12/2020 03:18 PM | 0      |       |
| 17054 | Arvados             | Feature | In Progress | Normal   | Custom naming for scatter steps   |             | 05/04/2022 03:19 PM | 0      |       |
| 10614 | Arvados             | Bug     | New         | Normal   | [CWL] a-c-r maximum recursion depth exceeded error  |             | 07/07/2021 06:21 PM | 0      |       |
| 10328 | Arvados             | Feature | New         | Normal   | [CWL] a-c-r option to resubmit failed jobs  |             | 07/07/2021 06:22 PM | 0      |       |
| 15249 | Arvados             | Feature | New         | Normal   | [cwl] a-c-r supports --js-console   |             | 07/06/2021 09:08 PM | 0      |       |
| 8672  | Arvados             | Story   | New         | Normal   | [CWL] arvados-cwl-runner creates new project for pipeline run   |             | 06/02/2021 07:43 PM | 0      |       |
| 10206 | Arvados             | Bug     | New         | Normal   | [CWL] arvados-cwl-runner may not be handling input files on keep mount correctly  |             | 07/07/2021 06:23 PM | 0      |       |
| 10978 | Arvados             | Bug     | New         | Normal   | [CWL] Avoid using "+" char in mount paths   |             | 07/07/2021 05:26 PM | 0      |       |
| 9755  | Arvados             | Bug     | New         | Normal   | [CWL] Creating intermediate folders in working directory (fails in cwl-runner)  |             | 07/07/2021 06:23 PM | 0      |       |
| 9964  | Arvados             | Bug     | New         | Normal   | [CWL][Crunch2][Crunch] crunchrunner should use CWL globs to output data to keep   | Tom Morris  | 07/07/2021 06:23 PM | 0      |       |
| 9965  | Arvados             | Bug     | New         | Normal   | [CWL][Crunch][Crunch2] crunchrunner should ignore hidden directories when uploading to keep   | Tom Morris  | 07/07/2021 06:23 PM | 0      |       |
| 13053 | Arvados             | Bug     | In Progress | Normal   | [CWL] discover_secondary_files not processing expressions   |             | 02/08/2018 03:44 PM | 0      |       |
| 12331 | Arvados             | Bug     | New         | Normal   | [CWL] Does not distinguish between keep references to File and Directory when selected in Workbench template  |             | 07/06/2021 09:18 PM | 0      |       |
| 15279 | Arvados             | Feature | New         | Normal   | [cwl] expressions in keep_cache   |             | 07/06/2021 09:08 PM | 0      |       |
| 14429 | Arvados             | Bug     | New         | Normal   | [CWL] Initial work dir error  |             | 10/30/2018 08:05 PM | 0      |       |
| 9659  | Arvados             | Bug     | New         | Normal   | [CWL] Jobs crash when arvados/jobs:latest is not suitable to run CWL jobs   |             | 07/07/2021 06:23 PM | 0      |       |
| 14726 | Arvados             | Bug     | New         | Normal   | [CWL] Propagating input file to output gets confusing error   |             | 01/14/2020 02:59 PM | 0      |       |

| #     | Project       | Tracker | Status      | Priority | Subject   | Assigned To   | Updated             | % Done | Hours |
|-------|---------------|---------|-------------|----------|---|---------------|---------------------|--------|-------|
| 14923 | Arvados       | Story   | New         | Normal   | [CWL] Reduce memory footprint by using webdav to get file/dir listings in collections (instead of Python SDK) |               | 07/06/2021 09:09 PM | 0      |       |
| 10402 | Arvados       | Story   | New         | Normal   | [CWL] Reduce redundant work with subworkflow RunInSingleContainer   |               | 07/07/2021 06:22 PM | 0      |       |
| 15580 | Arvados       | Story   | New         | Normal   | [CWL] Register workflow and run from git repo   |               | 07/06/2021 09:08 PM | 0      |       |
| 13643 | Arvados       | Feature | New         | Normal   | [CWL] Requirement for storage classes of data   |               | 07/06/2021 09:09 PM | 0      |       |
| 11442 | Arvados       | Feature | New         | Normal   | [CWL] Resolve symbolic names to collections   |               | 07/06/2021 09:09 PM | 0      |       |
| 15535 | Arvados       | Story   | New         | Normal   | [CWL] Run from original CWL, not packed   |               | 07/06/2021 09:12 PM | 0      |       |
| 13252 | Arvados       | Bug     | New         | Normal   | [CWL] RunInSingleContainer requirement errors on DockerRequirement even when no such requirement is specified |               | 03/03/2020 07:24 PM | 0      |       |
| 16011 | Arvados Epics | Story   | In Progress | Normal   | CWL support, docs, training, website  |               | 01/26/2022 03:00 PM | 0      |       |
| 18988 | Arvados       | Feature | New         | Normal   | [CWL] support singularity/docker hint to make debugging workflows easier                                      |               | 04/11/2022 06:29 PM | 0      |       |
| 18311 | Arvados       | Bug     | New         | Normal   | [cwl] test 221 in the 1.2 conformance suite is failing on singularity   | Peter Amstutz | 05/06/2022 06:40 PM | 0      |       |
| 18362 | Arvados       | Story   | New         | Normal   | cwltest results for Arvados produces badges which can be linked to from commonwl.org                          |               | 11/10/2021 05:41 PM | 0      |       |
| 15692 | Arvados       | Bug     | New         | Normal   | [CWL] test_with_arvbox integration tests use tests inside image   |               | 07/06/2021 09:08 PM | 0      |       |
| 17918 | Arvados       | Bug     | New         | Normal   | cwltool 'id' changes packing behavior   | Peter Amstutz | 05/06/2022 06:39 PM | 0      |       |
| 10696 | Arvados       | Bug     | New         | Normal   | [CWL] Tries to run docker inside container where docker is not available, gives IOError                       |               | 07/07/2021 06:21 PM | 0      |       |
| 12345 | Arvados       | Feature | New         | Normal   | [CWL] Use arv-put collection caching for file uploads   |               | 09/27/2017 02:02 PM | 0      |       |
| 14030 | Arvados       | Feature | New         | Normal   | [CWL] Use streamable flag as a hint to use keep output  |               | 07/06/2021 09:09 PM | 0      |       |

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