

GitHub Repository Metrics Report

Repository: apache/airflow

Stars: 43846

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Issue & Backlog Metrics

Metric	Value
Open Issues	191
Closed Issues	162
Open Closed Ratio	0.54
Avg Resolution Time Days	8.87
Bug Issues	0
Feature Issues	0
Bug Feature Ratio	N/A

Total Issues (open + closed): 353

Issue Throughput by Sprint

Total Created: 353 **Total Closed:** 162

Sprint Start	Created	Closed
2025-11-19	86	28
2025-12-03	104	39
2025-12-17	79	27
2025-12-31	76	66
2026-01-14	8	2

Showing last 5 sprints. Full history is in reports/issue_sprint_throughput.csv.

Code Quality & Maintenance

Metric	Value
Files Analyzed	1539
Hotspot Files	1
Test To Code Ratio	0.22
Stale Files	0

Code Churn

Total churn: 71720 Avg churn/file: 46.6

File	Churn	Commits
airflow-core/docs/img/airflow_erd.svg	12447	4
airflow-core/src/airflow/api_fastapi/auth/managers/simple/ui/package-lock.json	3735	6
airflow-core/src/airflow/api_fastapi/auth/managers/simple/ui/pnpm-lock.yaml	2684	7
dev/breeze/uv.lock	2625	5
providers/edge3/src/airflow/providers/edge3/plugins/www/pnpm-lock.yaml	2451	2
helm-tests/tests/helm_tests/airflow_core/test_worker.py	941	13
providers/google/src/airflow/providers/google/cloud/operators/gen_ai.py	865	1
airflow-core/tests/unit/api_fastapi/core_api/routes/public/test_task_instances.py	776	7
providers/openlineage/tests/unit/openlineage/utils/test_utils.py	724	1
airflow-core/tests/unit/models/test_trigger.py	670	1
helm-tests/tests/helm_tests/security/test_security_context.py	598	2
providers/ssh/src/airflow/providers/ssh/operators/ssh_remote_job.py	455	1
providers/ssh/src/airflow/providers/ssh/utils/remote_job.py	448	1
airflow-core/src/airflow/utils/db.py	437	4
providers/edge3/src/airflow/providers/edge3/cli/worker.py	426	2
airflow-core/tests/unit/cli/test_cli_parser.py	425	1
providers/common/compat/src/airflow/providers/common/compat/standard/operators.py	424	2
airflow-core/src/airflow/ui/pnpm-lock.yaml	417	2
dev/react-plugin-tools/react_plugin_template/src/theme.ts	409	2
providers/openlineage/src/airflow/providers/openlineage/utils/utils.py	396	3
chart/values.schema.json	372	14
airflow-core/src/airflow/ui/src/pages/DagsList/DagsFilters/DagsFilters.tsx	371	3
airflow-core/src/airflow/dag_processing/importers/python_importer.py	360	1
providers/standard/tests/unit/standard/operators/test_python.py	357	3

File	Churn	Commits
providers/edge3/tests/unit/edge3/cli/test_worker.py	345	3
providers/google/tests/system/google/cloud/gen_ai/example_gen_ai_gemini_batch_api.py	341	1
providers/ssh/tests/unit/ssh/operators/test_ssh_remote_job.py	331	1
airflow-core/src/airflow/dag_processing/dagbag.py	330	2
scripts/ci/prek/check_shared_distributions_usage.py	312	1
shared/plugins_manager/src/airflow_shared/plugins_manager/plugins_manager.py	307	2
airflow-core/src/airflow/ui/tests/e2e/pages/BackfillPage.ts	305	2
airflow-core/src/airflow/plugins_manager.py	301	4
airflow-core/src/airflow/ui/src/layouts/Details/Grid/TaskNames.tsx	286	2
providers/ssh/src/airflow/providers/ssh/triggers/ssh_remote_job.py	271	1
airflow-core/src/airflow/jobs/scheduler_job_runner.py	271	4
scripts/in_container/benchmark_cli_latency.py	271	1
airflow-core/src/airflow/dag_processing/importers/base.py	266	1
providers/ssh/docs/operators/ssh_remote_job.rst	264	1
airflow-core/src/airflow/ui/src/components/FilterBar/filters/DateRangeFilter.test.tsx	263	2
providers/edge3/src/airflow/providers/edge3/cli/definition.py	261	1
providers/google/tests/unit/google/cloud/operators/test_gen_ai.py	259	1
providers/ssh/tests/unit/ssh/utils/test_remote_job.py	254	1
providers/celery/src/airflow/providers/celery/cli/definition.py	254	1
providers/amazon/tests/unit/amazon/aws/operators/test_ssm.py	240	1
providers/edge3/tests/unit/edge3/cli/test_definition.py	236	1
airflow-core/src/airflow/ui/tests/e2e/pages/EventsPage.ts	230	1
airflow-ctl-tests/tests/airflowctl_tests/test_airflowctl_commands.py	225	3
task-sdk/tests/task_sdk/execution_time/test_task_runner.py	223	6
helm-tests/tests/helm_tests/airflow_core/test_scheduler.py	222	3
providers/celery/src/airflow/providers/celery/executors/celery_executor.py	222	1
providers/cncf/kubernetes/tests/unit/cncf/kubernetes/operators/test_job.py	221	3
providers/edge3/src/airflow/providers/edge3/cli/edge_command.py	214	2
providers/snowflake/src/airflow/providers/snowflake/hooks/snowflake.py	204	3
airflow-core/tests/unit/jobs/test_scheduler_job.py	204	3
providers/amazon/tests/unit/amazon/aws/operators/test_emr_serverless.py	203	1
providers/ssh/tests/unit/ssh/triggers/test_ssh_remote_job.py	197	1
shared/module_loading/src/airflow_shared/module_loading/file_discovery.py	197	1

File	Churn	Commits
airflow-core/tests/unit/api_fastapi/core_api/routes/ui/test_grid.py	195	1
airflow-core/src/airflow/ui/src/pages/DagsList/DagsFilters/StateFilters.tsx	194	2
airflow-core/src/airflow/utils/file.py	193	1
providers/google/tests/unit/google/cloud/operators/test_dataproc.py	192	3
providers/google/docs/operators/cloud/gen_ai.rst	189	1
airflow-core/src/airflow/ui/tests/e2e/pages/DagRunsPage.ts	188	1
helm-tests/tests/helm_tests/airflow_aux/test_pod_template_file.py	188	3
providers/google/src/airflow/providers/google/cloud/hooks/gen_ai.py	188	1
airflow-core/src/airflow/ui/src/layouts/Details/Gantt/Gantt.tsx	187	2
scripts/ci/prek/check_cli_definition_imports.py	186	1
providers/google/tests/unit/google/cloud/hooks/test_gen_ai.py	184	1
airflow-core/src/airflow/ui/tests/e2e/specs/backfill.spec.ts	176	2
airflow-core/src/airflow/ui/src/hooks/navigation/useNavigation.ts	172	3
providers/ssh/tests/unit/ssh/hooks/test_ssh_async.py	172	1
providers/celery/tests/unit/celery/cli/test_definition.py	170	1
chart/values.yaml	169	15
airflow-core/tests/unit/dag_processing/test_dagbag.py	165	3
airflow-core/src/airflow/models/taskinstance.py	165	2
shared/listeners/tests/listeners/test_listener_manager.py	164	1
airflow-core/src/airflow/ui/tests/e2e/specs/dag-audit-log.spec.ts	161	1
airflow-core/src/airflow/ui/src/layouts/Details/Grid/Grid.tsx	161	3
airflow-core/tests/unit/api_fastapi/execution_api/versions/head/test_task_instances.py	154	1
chart/templates/NOTES.txt	152	8
airflow-core/src/airflow/api_fastapi/auth/managers/simple/ui/openapi-gen/queries/queries.ts	152	2
airflow-core/src/airflow/ui/tests/e2e/specs/dag-runs.spec.ts	146	1
providers/standard/tests/unit/standard/decorators/test_python.py	146	3
airflow-core/src/airflow/ui/src/pages/DagsList/DagsFilters/FavoriteFilter.tsx	145	2
task-sdk/src/airflow/sdk/execution_time/comms.py	144	2
generated/provider_metadata.json	144	1
providers-summary-docs/core-extensions/cli-commands.rst	143	1
providers/ssh/src/airflow/providers/ssh/hooks/ssh.py	142	1
airflow-core/src/airflow/api_fastapi/auth/managers/simple/ui/openapi-gen/requests/services.gen.ts	141	1
airflow-ctl/docs/images/output_connections.svg	141	1
shared/module_loading/tests/module_loading/test_file_discovery.py	139	1
airflow-core/src/airflow/ui/tests/e2e/specs/asset.spec.ts	138	1

File	Churn	Commits
task-sdk/src/airflow/sdk/bases/operator.py	135	4
task-sdk/src/airflow/sdk/plugins_manager.py	135	2
airflow-core/src/airflow/cli/cli_parser.py	135	1
airflow-core/src/airflow/ui/src/layouts/Details/Grid/TaskInstancesColumn.tsx	134	2
task-sdk/src/airflow/sdk/execution_time/callback_runner.py	134	2
providers/discord/src/airflow/providers/discord/notifications/embed.py	134	1
providers/openlineage/src/airflow/providers/openlineage/plugins/listener.py	133	3
providers/standard/src/airflow/providers/standard/operators/python.py	132	2

Top 100 files by churn. Full listing is in reports/code_churn_by_file.csv.

Hotspot Files

File	Churn	Commits
helm-tests/tests/helm_tests/airflow_core/test_worker.py	941	13

Security & Compliance

Metric	Value
Open Security Alerts	0
Avg Remediation Time Days	N/A
Signed Commits Percentage	99.67
Protected Branches	0

Note: Dependabot Alerts may be inaccessible for some repos/tokens; in that case the CSV will show 0 alerts.