

# Repository Activity Report

**Repo:** Kubernetes/kubernetes | **Window:** last 10 days | **Generated (UTC):** 2026-01-13 13:50:34

## Summary

Metric	Value	Notes
active_contributors	42	last 10 days
avg_time_between_commits_hours	99.91	last 10 days
lines_added	26406	last 10 days (sampled)
lines_deleted	20453	last 10 days (sampled)
bus_factor	2	contributors reaching 50% ownership
bus_factor_ownership_percent	58.66	last 10 days
branch_count	59	Number of branches – Parallel development complexity
merge_frequency_merged_prs	113	Merge frequency – Integration cadence (last 10 days)
merge_frequency_merges_per_week	79.1	last 10 days
avg_time_between_merges_hours	1.9	last 10 days
avg_pr_merge_lead_time_hours	635.32	Average PR merge time – Lead time for change (last 10 days)
median_pr_merge_lead_time_hours	290.6	last 10 days
p75_pr_merge_lead_time_hours	766.76	last 10 days
p90_pr_merge_lead_time_hours	1705.32	last 10 days
prs_closed	157	PRs closed (last 10 days)
prs_merged	113	PRs merged (last 10 days)
prs_closed_not_merged	44	PRs closed without merge (includes rejected/abandoned)
prs_merge_rate_percent	71.97	Merged PRs / Closed PRs
prs_reopened	3	PRs reopened at least once – Review quality signal (last 10 days; scanned 482 recently-updated PRs)
prs_reopen_events	3	Total reopen events (last 10 days; scanned 482 recently-updated PRs)
prs_reopen_rate_percent	1.91	Reopened PRs / Closed PRs

## Merge Frequency (Integration Cadence)

Merged PRs in window: **113**

Avg merges/week: **79.1**

Avg hours between merges: **1.9**

Recent merged pull requests

#	Created at	Merged at	Lead (days)	Author	Title
136086	2026-01-08	2026-01-13	5.41	richabanker	Graduate watch_list_duration_seconds to BETA
135770	2025-12-16	2026-01-13	27.57	dnaeon	code-generator/default-gen: generate defaults only if required tags are present
135369	2025-11-20	2026-01-12	53.12	saschagrunert	test: Fix image credential pulls test node scheduling
135485	2025-11-27	2026-01-12	46.13	saschagrunert	Fix device plugin admission failure after container restart
136117	2026-01-08	2026-01-13	4.16	lalitc375	Add utilities to allow strategy.go files to enable DV native validations
135977	2025-12-30	2026-01-13	13.71	pohly	make test: fix support for PARALLEL
135850	2025-12-19	2026-01-13	24.40	neolit123	Automated cherry pick of #135400: kubeadm: do not sort extraArgs alpha-numerically
136112	2026-01-08	2026-01-13	4.29	danwinship	Drop TopologyAwareHints and ServiceTraficDistribution feature gates
136183	2026-01-12	2026-01-12	0.12	aramase	test: fix kind local registry config for kms ci jobs
136161	2026-01-11	2026-01-12	1.01	dims	Update golang.org/x dependencies to latest versions
136122	2026-01-09	2026-01-12	3.75	danwinship	Automated cherry pick of #135631: Switch ipvs and winkernel back to more regular forced syncs
135759	2025-12-15	2026-01-12	28.13	Abhigyan-Shekhar	FIX: Deep copy MapType in CEL composition to prevent data race
135597	2025-12-05	2026-01-12	38.85	alvaroaleman	Service account controller: Wire through context
135412	2025-11-23	2026-01-12	50.02	omerap12	HPA: Enable DV support for MaxReplicas
135887	2025-12-22	2026-01-12	21.35	ErikJiang	fix log validation messages

#	Created at	Merged at	Lead (days)	Author	Title
13566 8	2025-12-08	2026-01-12	34.94	yliaog	added unit test case to ensure implicit DRA extended resource is handled properly during pod admission at kubelet
13607 9	2026-01-07	2026-01-10	2.33	lalitc375	Re-apply "Migrate ResourceSlice map key validation to declarative validation"
13594 9	2025-12-26	2026-01-12	16.92	lalitc375	Promote validation-gen tags to Stable
13599 2	2026-01-01	2026-01-12	11.13	bart0sh	Migrate remaining kubelet subdirs to contextual logging
13612 3	2026-01-09	2026-01-10	0.93	danwinship	Automated cherry pick of #135631: Switch ipvs and winkernel back to more regular forced syncs
13616 7	2026-01-12	2026-01-12	0.16	Karthik-K-N	DRA: remove deprecated test method usage, fix linter hints
13591 1	2025-12-23	2026-01-12	19.90	ShaanveerS	Add UDP and explicit TCP support to agnhost porter
13612 7	2026-01-09	2026-01-12	3.02	carlory	kubeadm: fix a bug where kubeadm upgrade is failed if the content of the `kubeadm-flags.env` file is `KUBELET_KUBEADM_ARGS=""`
13589 0	2025-12-22	2026-01-10	18.39	CLBRITTON2	Feat: wire discovery group for declarative validation and migrate Endpoint.Addresses + EndpointSlice.AddressType
13615 1	2026-01-10	2026-01-11	0.58	pohly	testing: partial revert of E2E + DRA upgrade/downgrade

## Lead Time for Change (PR merge time)

Samples: **113**

Average lead time (hours): **635.32**

Median lead time (hours): **290.60**

P75 lead time (hours): **766.76**

P90 lead time (hours): **1705.32**

## PRs Merged vs Closed (Development Efficiency)

Closed PRs (window): 157

Merged PRs (window): 113

Closed without merge: 44

Merge rate (merged/closed): 71.97%

Recently closed without merge (sample)

#	Closed at	Author	Title
135935	2026-01-13T05:09	darthsurbus	[DO NOT REVIEW] Network Tag CIDR Declarative Validation
136187	2026-01-13T03:47	blaze27444	Rename main.go to main.gos
135913	2026-01-12T17:52	singh1203	Migrate FlowControl (`flowcontrol.apiserver.k8s.io`) to Declarative Validation
136177	2026-01-12T17:54	enj	Test KMS CI
136146	2026-01-12T15:50	MohammedMutee	kubeadm: fix wait-control-plane using load balancer instead of local endpoint
136150	2026-01-12T07:09	pohly	ktesting: don't install signals automatically
136137	2026-01-12T04:21	vikasbolla	Ignore conversion errors in versioned validation fuzz test
133465	2026-01-12T01:42	xigang	kubelet: ensure static pods terminate last during node shutdown
136129	2026-01-12T01:38	pacoxu	[Testing]Revert "DRA e2e: upgrade/downgrade refactor"
133414	2026-01-11T21:38	fusida	fix set caching objects log typo
135849	2026-01-11T16:35	kfess	Add linkCode and linkKEPs fields to match the markdown output
136153	2026-01-11T09:52	MohammedMutee	Revert "Use ktesting in e2e framework" and remove incompatible tests to fix CI
136125	2026-01-10T13:16	MohammedMutee	[GCE] Pin Ubuntu image to 22.04 to fix ci-cos-containerd-e2e-ubuntu-gce
135286	2026-01-10T05:40	ShaanveerS	Enable Declarative Validation for Role
135780	2026-01-10T00:13	techknowlogick	client-go: migrate websocket code to use coder/websocket
136139	2026-01-09T20:05	aroradaman	nftables: remove redundant protocol check in endpoint chains
136109	2026-01-09T12:25	aojea	Default EndpointSlice.Endpoints to empty list instead of nil
136017	2026-01-09T12:19	nohy6630	kube-aggregator: Generate NewClientset for fake clientset
136133	2026-01-09T11:39	ardaguclu	kubectl exec: Fail if COMMAND is passed after resource
135521	2026-01-08T14:40	iamrajiv	fix(e2e): Fix HPA CPU test flake by using dynamic stability check range
135695	2026-01-08T12:17	tsj-30	Wait for ResourceSlices before scheduling extended resources

#	Closed at	Author	Title
135967	2026-01-08T12:07	kannon92	enable bug fix feature gate to combat flake
133458	2026-01-08T11:49	BS14	fix/updated-node-perf-nbp-eb baseimage to trixie-slim
134435	2026-01-07T16:10	sats-23	WIP: Queueinghint test on master
134504	2026-01-07T16:10	sats-23	WIP: Affinity test on 1.33

## PR Reopen Rate (Review Quality Signal)

Closed PRs (window): **157**

Reopened PRs (window): **3**

Reopen events (window): **3**

Reopen rate (reopened/closed): **1.91%**

Scanned PRs (recently updated): **482**

*Note:* GitHub search does not provide a direct reopen-date qualifier for PRs. This metric is computed by scanning recently-updated PRs and checking their reopen events. If your repository has very high PR churn, you may need to increase the scan limit.

Most recently reopened PRs (sample)

#	Reopened at	Author	Title
136041	2026-01-05T21:20	richabanker	Update metrics docs 1.35
134092	2026-01-05T14:43	lcarva	Default to IfNotPresent if digest is included
129129	2026-01-05T13:51	tkashem	KEP-3926: Add a test to verify list error aggregation

## PR Quality Metrics

Metric	Value
PRs scanned	149
Non-draft PRs	142
Avg review turnaround (hrs)	17.62
Median review turnaround (hrs)	5.84
Avg reviewers / PR	0.75
Median reviewers / PR	0.00
Avg PR size (LOC changed)	504.14
Median PR size (LOC changed)	40.00
Avg total comments / PR	7.90
Approval rate	20.00%

*Definitions:* Review turnaround is created → first non-author review. PR size is additions + deletions. Total comments uses issue comments + review thread count (proxy for inline review discussion).

### Largest PRs (LOC changed) – sample

#	LOC	Author	Title
136039	16069	lalitc375	[WIP] Promote MutatingAdmissionPolicy to v1 (GA)
136015	9265	Chunxia202410	[WIP][FG:InPlacePodVerticalScaling] Configurable CPU Scale Down Delay
136153	8260	MohammedMutee	Revert "Use ktesting in e2e framework" and remove incompatible tests to fix CI
136161	5701	dims	Update golang.org/x dependencies to latest versions
136016	3319	neolit123	kubeadm: remove the v1beta3 API and PublicKeysECDSA feature gate
136151	2564	pohly	testing: partial revert of E2E + DRA upgrade/downgrade
136156	2509	pohly	DRA: upgrade/downgrade refactor, II
136081	2410	lalitc375	Dv native support in the validation-gen framework,
136185	1520	tallclair	Optimize NodeDeclaredFeatures with a bitmap FeatureSet implementation
136017	1344	nohy6630	kube-aggregator: Generate NewClientset for fake clientset

### Slowest first-review turnaround (hours) – sample

#	Hrs	Author	Title
136041	94.55	richabanker	Update metrics docs 1.35
136020	93.86	apratinav-intuit	Support YAML directive
136117	92.36	lalitc375	Add utilities to allow strategy.go files to enable DV native validations
136122	86.82	danwinship	Automated cherry pick of #135631: Switch ipvs and wkernel back to more regular forced syncs
136131	72.29	carlory	Automated cherry pick of #136127: kubeadm: fix a bug where kubeadm upgrade is failed if the content of the `kubeadm-flags.env` file is `KUBELET_KUBEADM_ARGS=""`
136040	61.13	petern48	fix(controller/resourcequota, controller/garbagecollector): Change V().Error() to V().Info()
136079	55.04	lalitc375	Re-apply "Migrate ResourceSlice map key validation to declarative validation"
136050	50.34	ShaanveerS	fix(controller/volume): convert V().Error() to V().Info()
136074	49.34	Charan3433	fix(garbagecollector): remove incorrect verbosity from Error logs fix(garbagecollector): remove incorrect verbosity from Error logs
136154	48.49	bhope	Promote component-base metrics to beta

## Merge volume (recent buckets)

Day	Merges	Week	Merges	Month	Merges
2026-01-04	1	2026-W1	1	2026-01	113
2026-01-05	2	2026-W2	91		
2026-01-06	11	2026-W3	21		
2026-01-07	26				
2026-01-08	27				
2026-01-09	16				
2026-01-10	8				
2026-01-11	1				
2026-01-12	15				
2026-01-13	6				

## Branches

Branch list (truncated to first 50).

Branch	Protected	Head SHA
feature-rate-limiting	YES	563ab2681973
feature-serverside-apply	YES	afc81f414598
feature-workload-ga	YES	b80b7b08c953
master	YES	9f6977db5408
release-0.4	YES	b766960348da
release-0.5	YES	dfb235c60c78
release-0.6	YES	1263b9665ffb
release-0.7	YES	4d8363cf4997
release-0.8	YES	7e134cb73dfe
release-0.9	YES	b314b648fdd0
release-0.10	YES	6925024e98bc
release-0.12	YES	de5dbdc38930
release-0.13	YES	28efb1d8e24a
release-0.14	YES	f5582e8b99a1
release-0.15	YES	efdd58b737dc
release-0.16	YES	7932ef58eedc
release-0.17	YES	4c118f66b490
release-0.18	YES	5920e2764a44
release-0.19	YES	48726482b813
release-0.20	YES	e200fec156b
release-0.21	YES	49e70bc91b4b
release-1.0	YES	b9a9d98dd995
release-1.1	YES	aec7b416eb82
release-1.2	YES	3d5d1aa68644
release-1.3	YES	587d164307de
release-1.4	YES	ae85e0be59bf
release-1.5	YES	f35802d3a00b

Branch	Protected	Head SHA
release-1.6	YES	4fd45574758f
release-1.6.3	YES	d6f433224538
release-1.7	YES	347f652944cc
release-1.8	YES	a654bda3de81
release-1.9	YES	b5ec061c7ab9
release-1.10	YES	f170ef66340f
release-1.11	YES	9016740a6ffe
release-1.12	YES	5f799a487b70
release-1.13	YES	874f0559d9b3
release-1.14	YES	c8b135d0b49c
release-1.15	YES	a34f1e483104
release-1.16	YES	18936c8b181d
release-1.17	YES	1d9e1e6d56cb
release-1.18	YES	0f3e6609388d
release-1.19	YES	8dd52e6c5dcd
release-1.20	YES	4a89df5617b8
release-1.21	YES	2fef630dd216
release-1.22	YES	bc4763cbf8b9
release-1.23	YES	1635c380b26a
release-1.24	YES	2cb31c9333ad
release-1.25	YES	88e994f6bf8f
release-1.26	YES	840d9bfe2ee5
release-1.27	YES	f5da3b717fc2

## Bus Factor (Contributor Concentration)

Total commits in window: **179**

Threshold: **50%**

Bus factor: **2** (contributors required to reach the threshold)

Cumulative ownership at cutoff: **58.66%**

Author	Commits	Own %	Cumulative %	In bus factor
k8s-ci-robot	82	45.81	45.81	YES
pohly	23	12.85	58.66	YES
lalitc375	8	4.47	63.13	NO
CLBRITTON2	7	3.91	67.04	NO
bart0sh	5	2.79	69.83	NO
richabanker	4	2.23	72.07	NO
tallclair	4	2.23	74.30	NO
dims	3	1.68	75.98	NO
harche	3	1.68	77.65	NO
Karthik-K-N	2	1.12	78.77	NO
liggitt	2	1.12	79.89	NO
aojea	2	1.12	81.01	NO
Jefftree	2	1.12	82.12	NO
soltys	2	1.12	83.24	NO
serathius	2	1.12	84.36	NO
yongruilin	2	1.12	85.47	NO
aramase	1	0.56	86.03	NO
omerap12	1	0.56	86.59	NO
saschagrunert	1	0.56	87.15	NO
carlory	1	0.56	87.71	NO
yliaog	1	0.56	88.27	NO
ShaanveerS	1	0.56	88.83	NO
danwinship	1	0.56	89.39	NO
Abhigyan-Shekhar	1	0.56	89.94	NO

Author	Commits	Own %	Cumulative %	In bus factor
JoelSpeed	1	0.56	90.50	NO
Loginovllia	1	0.56	91.06	NO
p0lyn0mial	1	0.56	91.62	NO
MohammedMutee	1	0.56	92.18	NO
darshansreenivas	1	0.56	92.74	NO
kannon92	1	0.56	93.30	NO
mortent	1	0.56	93.85	NO
anson627	1	0.56	94.41	NO
utam0k	1	0.56	94.97	NO
pacoxu	1	0.56	95.53	NO
249043822	1	0.56	96.09	NO
haircommander	1	0.56	96.65	NO
Tanner-Gladson	1	0.56	97.21	NO
ngopalak-redhat	1	0.56	97.77	NO
MatteoFari	1	0.56	98.32	NO
Goend	1	0.56	98.88	NO
tchap	1	0.56	99.44	NO
pravk03	1	0.56	100.00	NO

## Top Authors (by commits, last 10 days)

Author	Commits
k8s-ci-robot	82
pohly	23
lalitc375	8
CLBRITTON2	7
bart0sh	5
richabanker	4
tallclair	4
dims	3
harche	3
Karthik-K-N	2
liggitt	2
aojea	2
Jefftree	2
soltys	2
serathius	2
yongruilin	2
aramase	1
omerap12	1
saschagrunert	1
carlory	1
yliaog	1
ShaanveerS	1
danwinship	1
Abhigyan-Shekhar	1
JoelSpeed	1

## Commit Volume (by day / week / month)

For compactness, this section shows the most recent buckets.

Day	Commits	Week	Commits	Month	Commits
2025-12-29	1	2025-W1	2	2024-01	1
2025-12-30	1	2025-W42	3	2025-10	3
2026-01-01	5	2025-W45	1	2025-11	5
2026-01-02	1	2025-W47	2	2025-12	29
2026-01-04	1	2025-W48	2	2026-01	141
2026-01-05	4	2025-W49	4		
2026-01-06	18	2025-W50	13		
2026-01-07	29	2025-W51	4		
2026-01-08	31	2025-W52	6		
2026-01-09	23	2026-W1	7		
2026-01-10	5	2026-W2	112		
2026-01-11	2	2026-W3	22		
2026-01-12	17				
2026-01-13	5				