

CMP-007

IaC and Control Planes

Infrastructure as code, declarative delivery and
platform control planes



CURRENT EVIDENCE SNAPSHOT

Official product sources refreshed through 2026-09-17
Controlled Mythos laboratory rerun: NOT ASSERTED

VERSION 1.2.0-candidate

CANDIDATE COMPARATIVE EVALUATION / PUBLIC

BENCHMARK DOCTRINE

Gates before scores. Evidence before
certainty. Profile fit before universal ranking.

IaC and Control Planes

Infrastructure as code, declarative delivery and platform control planes

DOCUMENT ID

CMP-007

VERSION

1.2.0-candidate

STATUS

Candidate Comparative Evaluation

PUBLICATION DATE

2026-09-17

SCHEDULED REVIEW

2026-12-16

CANONICAL ROUTE

/library/evaluations/cmp-007/

4

CANDIDATES

9

MANDATORY GATES

E2

CURRENT MAX EVIDENCE

18

ATOMIC CRITERIA

3

WORKLOAD PROFILES

CURRENT DECISION BOUNDARY

The July benchmark is a near-tie, not a universal result. Current Terraform, Pulumi, Crossplane, and OpenTofu releases change lifecycle and control-plane assumptions. Reproduce state, policy, drift, rollback, provider failure, migration, and exit under the intended operating model.

NO CURRENT UNIVERSAL WINNER IS PUBLISHED FROM THIS REFRESH.

July 24 baseline scores are preserved as lineage and sensitivity evidence, not silently reissued as September laboratory results.

Terraform / HCP Terraform

Terraform 1.16.3 / 2026-09-16

REFRESH TRIGGER

Stable 1.16.3 is current; 1.17 is beta. HCP Terraform continues policy/Stacks evolution.

OpenTofu

v1.12.0 / 2026-05-14

REFRESH TRIGGER

1.12 adds dynamic prevent_destroy, checksum improvements, output changes, and lifecycle controls; WinRM deprecation affects some estates.

Pulumi

v3.263.0 / 2026-09-15

REFRESH TRIGGER

Current line adds continued policy, Terraform-state, cross-language, and HCL integration improvements.

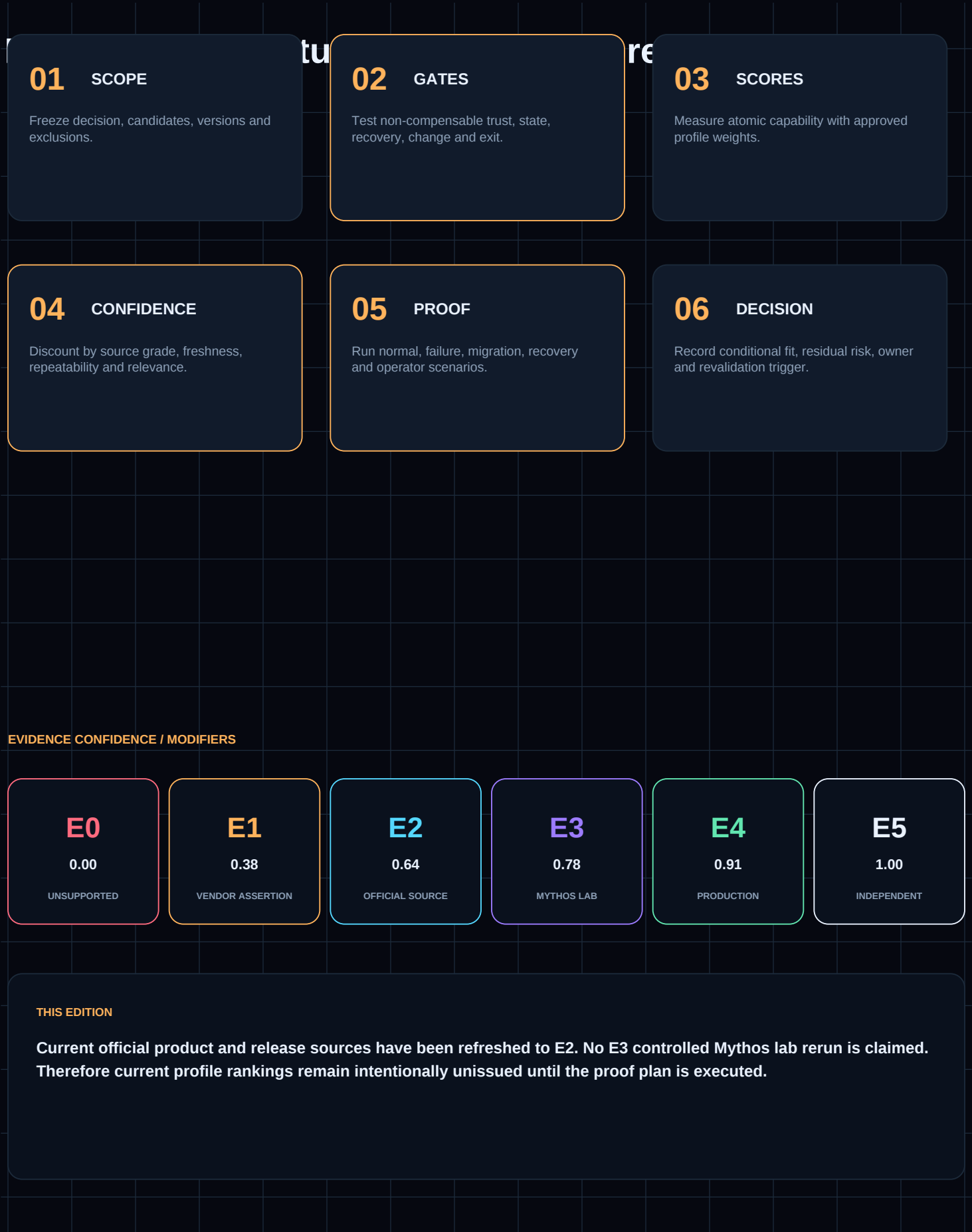
Crossplane

v2.4 / 2026-08-20

REFRESH TRIGGER

v2.4 is a maintained release in the broader v2 control-plane model; upgrade and composition behavior remain material.

FINAL BENCHMARK SYSTEM / DECISION ARCHITECTURE



What changed since the July benchmark snapshot

Changes below are sourced from current official release documentation. They identify revalidation triggers; they are not translated into new numeric scores without controlled proof.

Terraform / HCP Terraform

Terraform 1.16.3 / 2026-09-16

MATERIAL DELTA

Stable 1.16.3 is current; 1.17 is beta. HCP Terraform continues policy/Stacks evolution.

CRITERIA TOUCHED

C01 / C03 / C04 / C05 / C11 / C14 MODERATE REVALIDATION

OpenTofu

v1.12.0 / 2026-05-14

MATERIAL DELTA

1.12 adds dynamic prevent_destroy, checksum improvements, output changes, and lifecycle controls; WinRM deprecation affects some estates.

CRITERIA TOUCHED

C04 / C11 / C14 / C16 MODERATE REVALIDATION

Pulumi

v3.263.0 / 2026-09-15

MATERIAL DELTA

Current line adds continued policy, Terraform-state, cross-language, and HCL integration improvements.

CRITERIA TOUCHED

C03 / C04 / C05 / C06 / C12 / C14 MODERATE REVALIDATION

Crossplane

v2.4 / 2026-08-20

MATERIAL DELTA

v2.4 is a maintained release in the broader v2 control-plane model; upgrade and composition behavior remain material.

CRITERIA TOUCHED

C01 / C04 / C08 / C09 / C11 / C14 HIGH REVALIDATION

MANDATORY GATES / CURRENT REVALIDATION POSTURE

Mandatory gates remain non-compensable

No current release is marked PASS solely from documentation. E2 means the official source supports the capability path; LAB and RETEST identify proof still required. HOLD blocks a current decision.

MANDATORY GATE	TERRAFORM / HCP	OPENTOFU	PULUMI	CROSSPLANE
C01 Functional coverage	RETEST	E2	E2	RETEST
C02 Security / trust	E2	E2	E2	E2
C03 Governance / approval	RETEST	E2	RETEST	E2
C04 State integrity	RETEST	RETEST	RETEST	RETEST
C07 Observability / evidence	E2	E2	E2	E2
C09 Resilience / continuity	LAB	LAB	LAB	RETEST
C11 Change safety / rollback	RETEST	RETEST	LAB	RETEST
C16 Portability / exit	LAB	RETEST	LAB	LAB
C18 Assurance confidence	HOLD	HOLD	HOLD	HOLD

LEGEND

E2

official-source support only

LAB

controlled proof required

RETEST

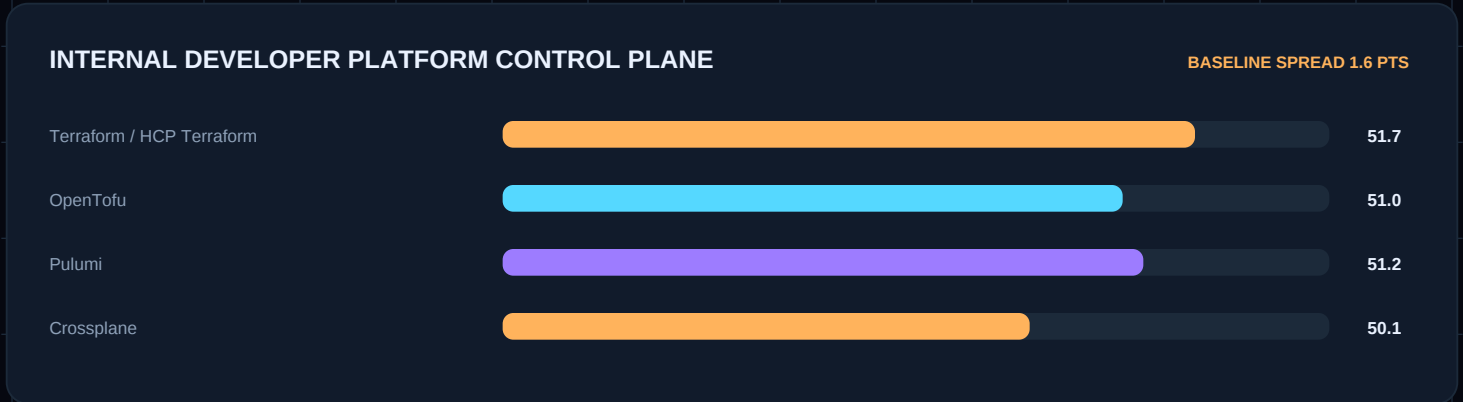
release delta touches this gate

HOLD

decision gate remains closed

Historical profile sensitivity - preserved, not reissued

Values below are the 2026-07-24 evidence-adjusted baseline. They show sensitivity to operating-model weights. The September refresh does not recompute rank because E3 lab proof has not been reproduced.



CURRENT RANK STATUS: WITHHELD PENDING CONTROLLED PROOF.

Evidence confidence is separate from capability

E5

Independent repeatable validation

confidence modifier 1.00

E4

Production evidence in adopting environment

confidence modifier 0.91

E3

Controlled Mythos laboratory result

confidence modifier 0.78

E2

Official documentation / release / source

confidence modifier 0.64

E1

Vendor assertion or marketing

confidence modifier 0.38

E0

Unsupported or unverified

confidence modifier 0.00

CURRENT EVIDENCE STATE

Terraform / HCP Terraform

E2 REFRESHED

Historical adjusted confidence: 58.2%

E3 LAB: NOT REPRODUCED

OpenTofu

E2 REFRESHED

Historical adjusted confidence: 58.2%

E3 LAB: NOT REPRODUCED

Pulumi

E2 REFRESHED

Historical adjusted confidence: 58.2%

E3 LAB: NOT REPRODUCED

Crossplane

E2 REFRESHED

Historical adjusted confidence: 58.2%

E3 LAB: NOT REPRODUCED

ASSURANCE RULE

A current release note can change capability context, but it cannot raise assurance beyond E2. Current recommendation strength is therefore bounded until the test plan produces reproducible artifacts.

MIGRATION, LIFECYCLE AND IRREVERSIBLE-COMMITMENT RISK

Lifecycle risk is evaluated independently of features

The benchmark models migration, upgrade, compatibility, support, staffing, data/state export, downtime and exit. Current release changes below are explicit proof triggers.

Terraform / HCP Terraform MODERATE REVALIDATION Stable 1.16.3 is current; 1.17 is beta. HCP Terraform continues policy/Stacks evolution. RETEST: C01 / C03 / C04 / C05 / C11 / C14
OpenTofu MODERATE REVALIDATION 1.12 adds dynamic prevent_destroy, checksum improvements, output changes, and lifecycle controls; WinRM deprecation affects some estates. RETEST: C04 / C11 / C14 / C16
Pulumi MODERATE REVALIDATION Current line adds continued policy, Terraform-state, cross-language, and HCL integration improvements. RETEST: C03 / C04 / C05 / C06 / C12 / C14
Crossplane HIGH REVALIDATION v2.4 is a maintained release in the broader v2 control-plane model; upgrade and composition behavior remain material. RETEST: C01 / C04 / C08 / C09 / C11 / C14

IRREVERSIBLE COMMITMENT GATE

Before migration or procurement lock-in, prove rollback, state portability, operational reconstruction, and supplier-exit assumptions.

Controlled proof is the next decision-producing step

REPRODUCTION STATE / NOT EXECUTED IN THIS EVIDENCE-REFRESH RELEASE

01

CONTROLLED SCENARIO

Provision representative cloud, network, identity, data, and SaaS resources with dependencies.

02

CONTROLLED SCENARIO

Exercise import, drift, replacement, partial failure, retry, refresh, taint or repair, and state recovery.

03

CONTROLLED SCENARIO

Validate policy, approval, secret isolation, provider signing, and execution-environment controls.

04

CONTROLLED SCENARIO

Measure plan, apply, reconcile, provider, and state performance at representative scale.

05

CONTROLLED SCENARIO

Upgrade providers, modules, languages, compositions, and the control plane.

06

CONTROLLED SCENARIO

Migrate a controlled stack between approaches and verify data, state, policy, and rollback.

EVIDENCE PACKAGE

Preserve exact versions, architecture, configuration, scenario, expected result, instrumentation, raw output, timing, failures, operator actions, deviations, acceptance state, owner, and artifact hashes.

Current decision posture

The July benchmark is a near-tie, not a universal result. Current Terraform, Pulumi, Crossplane, and OpenTofu releases change lifecycle and control-plane assumptions. Reproduce state, policy, drift, rollback, provider failure, migration, and exit under the intended operating model.

CURRENT RANKING: NOT REISSUED / CONTROLLED LAB REQUIRED

CURRENT OFFICIAL-SOURCE REGISTER / CHECKED 2026-09-17

Terraform / HCP Terraform Terraform releases github.com	E2 / OFFICIAL
OpenTofu OpenTofu 1.12.0 release opentofu.org	E2 / OFFICIAL
Pulumi Pulumi versions and changelog www.pulumi.com	E2 / OFFICIAL
Crossplane Crossplane releases github.com	E2 / OFFICIAL

REVISION LINEAGE

1.2.0-candidate / 2026-09-17 - current-source evidence refresh; no lab rescore issued.

1.1.0-candidate / 2026-07-24 - baseline benchmark using the final comparative evaluation system.

Trigger earlier review after major release, acquisition, licensing change, critical vulnerability, material outage, failed PoC, or workload change.

BASELINE ANALYTIC RECORD CONTINUES ON PAGE 11 FOR TRACEABILITY.

ATOMIC CRITERIA MODEL

WEIGHTED CAPABILITY WITH EXPLICIT MINIMUM EVIDENCE

ID	CRITERION	WEIGHT	GATE	MINIMUM EVIDENCE
C01	Infrastructure lifecycle and control-plane coverage	5	YES	Feature documentation, APIs, configuration exports, and scenario demonstration.
C02	Identity, policy, secret, provider, and execution trust architecture	5	YES	Threat model, identity flows, RBAC tests, audit records, and security configuration.
C03	Governance and approval controls	5	YES	Approval workflow, policy controls, separation-of-duties tests, and decision records.
C04	State, plan, dependency, and reconciliation integrity	5	YES	Backup, restore, rollback, drift, and corruption-recovery evidence.
C05	Automation and API quality	4	NO	API specifications, authentication tests, rate limits, event samples, and automation runs.
C06	Integration ecosystem	4	NO	Supported integrations, connector tests, failure behavior, and lifecycle ownership.
C07	Observability and evidence	4	YES	Logs, traces, metrics, reports, export tests, and evidence-retention controls.
C08	Resource, stack, workspace, provider, and control-loop scale	4	NO	Controlled load tests, topology scale, saturation behavior, and capacity model.
C09	Resilience and continuity	5	YES	Failure injection, HA tests, recovery timing, degraded-mode operation, and runbooks.
C10	Usability and operator cognition	3	NO	Task observation, error-rate measures, navigation tests, and operator interviews.
C11	Plan, approval, policy, canary, rollback, and reconciliation safety	5	YES	Plan or preview output, canary tests, rollback execution, and post-change verification.
C12	Extensibility and programmability	3	NO	Plugin, module, provider, workflow, or code-extension tests and upgrade impact analysis.
C13	Deployment and sovereignty options	3	NO	Deployment architecture, data-flow mapping, residency evidence, and offline tests.
C14	Lifecycle and upgrade discipline	4	NO	Release notes, upgrade test, compatibility matrix, support policy, and migration plan.
C15	Economics and cost predictability	3	NO	Bill-of-materials, licensing model, staffing estimates, metering, and sensitivity analysis.
C16	Portability and exit	4	YES	Export tests, format analysis, replacement workflow, and decommission evidence.
C17	Vendor and ecosystem risk	3	NO	License analysis, roadmap evidence, bus-factor indicators, and dependency inventory.
C18	Assurance confidence	5	YES	Source provenance, lab artifacts, production evidence, independent replication, and review date.

SCORE SCALE

0 absent; 1 materially deficient; 2 partial; 3 adequate with limits; 4 strong; 5 leading for the defined profile. Scores remain provisional until the required evidence grade is achieved.

RAW CAPABILITY SCORECARD

DOCUMENTED CAPABILITY BEFORE EVIDENCE DISCOUNT

CRITERION	TERRAFORM	OPENTOFU	PULUMI	CROSSPLANE
C01 Infrastructure lifecycle and control-plane coverage	4.8	4.6	4.7	4.5
C02 Identity, policy, secret, provider, and execution trust architecture	4.3	4.3	4.3	4.4
C03 Governance and approval controls	4.4	4.1	4.2	4.3
C04 State, plan, dependency, and reconciliation integrity	4.5	4.6	4.4	4.3
C05 Automation and API quality	4.7	4.6	4.7	4.5
C06 Integration ecosystem	4.7	4.5	4.6	4.5
C07 Observability and evidence	4.4	4.2	4.4	4.4
C08 Resource, stack, workspace, provider, and control-loop scale	4.7	4.5	4.5	4.5
C09 Resilience and continuity	4.3	4.1	4.2	4.3
C10 Usability and operator cognition	4.4	4.2	4.3	4.0
C11 Plan, approval, policy, canary, rollback, and reconciliation safety	4.6	4.5	4.5	4.2
C12 Extensibility and programmability	4.6	4.4	4.8	4.8
C13 Deployment and sovereignty options	4.0	4.7	4.5	4.4
C14 Lifecycle and upgrade discipline	4.4	4.1	4.2	4.0
C15 Economics and cost predictability	3.7	4.3	3.8	3.7
C16 Portability and exit	4.1	4.6	4.2	4.0
C17 Vendor and ecosystem risk	3.7	4.0	3.7	3.7
C18 Assurance confidence	3.6	3.5	3.5	3.4

WEIGHTED BASELINE / 100

Terraform

86.9

OpenTofu

86.3

Pulumi

86.1

Crossplane

84.4

EVIDENCE-ADJUSTED SCORECARD

CAPABILITY DISCOUNTED BY CURRENT EVIDENCE CONFIDENCE

CANDIDATE	RAW	EVIDENCE CONFIDENCE	ADJUSTED	CURRENT STATE
Terraform	86.9	58.2%	51.3	CONTROLLED LAB PENDING
OpenTofu	86.3	58.2%	50.8	CONTROLLED LAB PENDING
Pulumi	86.1	58.2%	50.8	CONTROLLED LAB PENDING
Crossplane	84.4	58.2%	49.7	CONTROLLED LAB PENDING

EVIDENCE SCALE

E0 / 0.00

Unsupported or unverified

E1 / 0.38

Vendor assertion or marketing statement

E2 / 0.64

Official documentation, release notes, or source repository

E3 / 0.78

Controlled Mythos laboratory result

E4 / 0.91

Production evidence from the adopting environment

E5 / 1.00

Independent repeatable validation

CURRENT CONFIDENCE BOUNDARY

Most candidate criteria are supported at E2: official documentation or source evidence. Environment-specific laboratory, production, and independent evidence remain future gates.

PROFILE-SPECIFIC RANKINGS

EVIDENCE-ADJUSTED SENSITIVITY ANALYSIS

ENTERPRISE DECLARATIVE DELIVERY

Prioritizes broad provider coverage, plans, approvals, policy, collaboration, audit, and established operating patterns.

1. Terraform and HCP Terraform	51.9
2. Pulumi	51.4
3. OpenTofu	51.3
4. Crossplane	50.2

OPEN SOVEREIGN IAC

Prioritizes open governance, compatibility, state control, encryption, exportability, and self-managed operation.

1. Terraform and HCP Terraform	51.4
2. OpenTofu	51.3
3. Pulumi	51.1
4. Crossplane	50.0

INTERNAL DEVELOPER PLATFORM CONTROL PLANE

Prioritizes reusable platform APIs, continuous reconciliation, self-service, policy, Kubernetes integration, and lifecycle.

1. Terraform and HCP Terraform	51.7
2. Pulumi	51.2
3. OpenTofu	51.0
4. Crossplane	50.1

RANK SENSITIVITY

Small score differences are not decision certainty. Treat near-ties as a requirement for deeper PoC, commercial, migration, and operating-model evidence.

CANDIDATE DEEP DIVE / 01

TERRAFORM AND HCP TERRAFORM

OPERATING MODEL

Declarative infrastructure provisioning using HCL with local, remote, and managed workflow options.

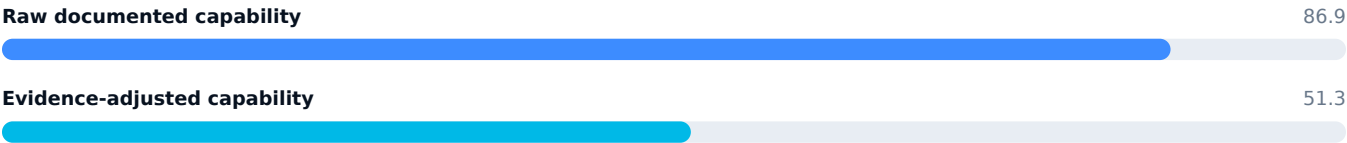
DOCUMENTED STRENGTHS

- Large provider and module ecosystem.
- Widely understood declarative workflow and mature operational patterns.
- Strong plan-and-apply model with managed collaboration options.
- Broad cloud, network, SaaS, and on-premises coverage.

CAUTIONS AND PROOF OBLIGATIONS

- State and provider trust require strict protection.
- Licensing and commercial-platform boundaries must be accepted.
- Rollback is not universally transactional and must be engineered by resource type.

BASELINE SCORE PROFILE



GATE DISPOSITION

PASS - enterprise declarative delivery | CONDITIONAL - licensing, state, and provider trust

CANDIDATE DEEP DIVE / 02

OPENTOFU

OPERATING MODEL

Community-governed open-source Terraform-compatible infrastructure-as-code engine with state and plan encryption capabilities.

DOCUMENTED STRENGTHS

- Strong compatibility with Terraform workflows and providers.
- Open governance and permissive open-source posture.
- Native state and plan encryption options.
- Lower migration friction for many existing HCL estates.

CAUTIONS AND PROOF OBLIGATIONS

- Commercial ecosystem and enterprise platform depth differ from HCP Terraform.
- Compatibility and provider behavior require release-specific validation.
- Operational tooling, policy, registry, and support model must be selected explicitly.

BASELINE SCORE PROFILE

Raw documented capability

86.3

Evidence-adjusted capability

50.8

GATE DISPOSITION

PASS - open sovereign IaC | CONDITIONAL - enterprise workflow and support model

CANDIDATE DEEP DIVE / 03

PULUMI

OPERATING MODEL

Infrastructure as code using general-purpose languages, component resources, managed or DIY state, and policy capabilities.

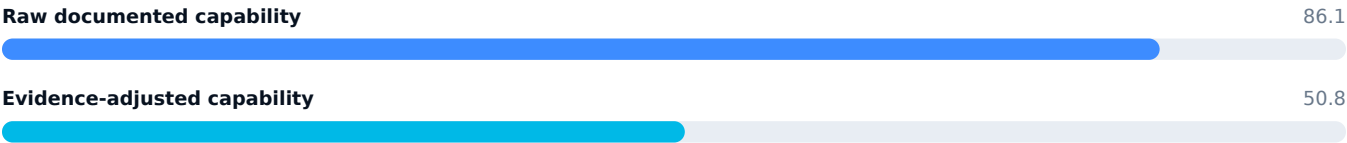
DOCUMENTED STRENGTHS

- General-purpose languages improve abstraction and reuse for software-oriented teams.
- Strong multi-language SDK and component model.
- Managed and self-managed backend choices.
- Rich testing and software-engineering integration potential.

CAUTIONS AND PROOF OBLIGATIONS

- Language flexibility can increase inconsistency and dependency risk.
- State and provider behavior still require infrastructure discipline.
- Team skill, package lifecycle, and code review standards are critical.

BASELINE SCORE PROFILE



GATE DISPOSITION

PASS - software-engineering-centric IaC | CONDITIONAL - language and dependency governance

CANDIDATE DEEP DIVE / 04

CROSSPLANE

OPERATING MODEL

Kubernetes-native control-plane framework using composite resources, providers, compositions, and continuous reconciliation.

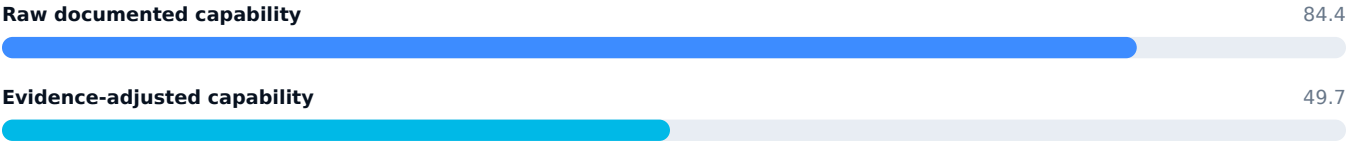
DOCUMENTED STRENGTHS

- Creates organization-specific cloud and infrastructure APIs.
- Continuous reconciliation supports platform control-plane patterns.
- Strong Kubernetes-native integration and composition model.
- Useful for self-service platform engineering and policy-bound abstractions.

CAUTIONS AND PROOF OBLIGATIONS

- Kubernetes becomes a critical control-plane dependency.
- State and failure semantics differ materially from plan-and-apply IaC.
- Provider and composition lifecycle require specialized platform engineering.

BASELINE SCORE PROFILE



GATE DISPOSITION

PASS - internal developer platform control plane | NOT EQUIVALENT - continuous reconciliation changes the operating model

ARCHITECTURE AND INTEGRATION FIT

THE PRODUCT IS ONLY ONE PART OF THE OPERATING SYSTEM

REFERENCE OPERATING LAYERS

01 Intent and platform-product interfaces

02 Configuration or API definitions and policy

03 Plan-and-apply engine or reconciliation control loop

04 Providers, credentials, state, dependency, and execution environment

05 Evidence, drift, recovery, migration, and retirement

INTEGRATION BOUNDARIES

- Cloud and infrastructure provider APIs
- Git, CI/CD, artifact, and module registries
- Identity, secrets, policy, approval, and signing
- Kubernetes, service catalog, developer portal, and platform APIs
- Cost, observability, ITSM, security, and evidence systems

ARCHITECTURE GATE

Every external dependency requires an owner, identity boundary, failure mode, evidence path, version policy, recovery procedure, and exit strategy.

SECURITY, OPERATIONS, LIFECYCLE, ECONOMICS, AND EXIT

CROSS-DOMAIN DECISION RECORD

SECURITY AND AUTHORITY

Identity, credentials, secrets, roles, privileged actions, signing, approvals, isolation, audit, and incident response must be tested as an integrated system.

RELIABILITY AND RECOVERY

Control-plane, data-plane, dependency, region, database, queue, network, and operator failures require defined degraded modes and recovery objectives.

CHANGE AND LIFECYCLE

Version, compatibility, migration, canary, rollback, content, plugin, provider, firmware, and decommission procedures are part of product fitness.

ECONOMICS AND CAPACITY

Licenses, metering, data, compute, hardware, storage, support, staffing, training, integration, migration, and opportunity cost require sensitivity analysis.

SOVEREIGNTY AND PRIVACY

Data location, support access, telemetry, subprocessors, encryption, key control, disconnected operation, and legal obligations must align with policy.

PORTABILITY AND EXIT

Configuration, policy, data, state, evidence, workflows, identities, and operational knowledge must be exportable and reconstructable.

DECISION OWNERSHIP

Architecture, security, operations, finance, procurement, legal, data, and service owners jointly accept the final profile, evidence, residual risk, and exit obligations.

RISK AND FAILURE REGISTER

SCENARIOS THAT CAN INVALIDATE A FEATURE-BASED SELECTION

ID	SEVERITY	FAILURE SCENARIO	REQUIRED TREATMENT
R-01	CRITICAL	A green plan conceals provider-side behavior or destructive replacement.	PREVENT / DETECT / RECOVER / EVIDENCE
R-02	HIGH	State compromise exposes secrets or permits unauthorized control.	PREVENT / DETECT / RECOVER / EVIDENCE
R-03	HIGH	Provider or module supply-chain failure changes behavior across many environments.	PREVENT / DETECT / RECOVER / EVIDENCE
R-04	HIGH	Continuous reconciliation fights emergency or manual recovery actions.	PREVENT / DETECT / RECOVER / EVIDENCE
R-05	MEDIUM	Abstractions hide cost, topology, failure, or compliance consequences from users.	PREVENT / DETECT / RECOVER / EVIDENCE
R-06	MEDIUM	Migration proves syntax compatibility but loses state lineage, policy, workflows, and evidence.	PREVENT / DETECT / RECOVER / EVIDENCE

RISK RULE

A candidate with an unresolved critical failure path cannot advance because optional capability, market position, or commercial discount cannot compensate for missing safety or recovery evidence.

CONTROLLED PROOF-OF-CAPABILITY PLAN

REPEATABLE SCENARIOS, INSTRUMENTATION, AND ACCEPTANCE

TEST 01

Provision representative cloud, network, identity, data, and SaaS resources with dependencies.

TEST 02

Exercise import, drift, replacement, partial failure, retry, refresh, taint or repair, and state recovery.

TEST 03

Validate policy, approval, secret isolation, provider signing, and execution-environment controls.

TEST 04

Measure plan, apply, reconcile, provider, and state performance at representative scale.

TEST 05

Upgrade providers, modules, languages, compositions, and the control plane.

TEST 06

Migrate a controlled stack between approaches and verify data, state, policy, and rollback.

EVIDENCE PACKAGE

Preserve versions, architecture, configuration, data set, scenario, expected result, instrumentation, raw output, timing, failures, operator actions, deviations, acceptance state, owner, and artifact hashes.

CONDITIONAL RECOMMENDATION AND REVALIDATION

DECISION RECORD, ACCEPTANCE, AND NEXT EVIDENCE

RECOMMENDATION POSITION

- Select the control-loop model before comparing feature scores.
- Treat state, provider, secret, and execution trust as mandatory gates.
- Require resource-specific failure, rollback, and migration testing.
- Revalidate providers, licensing, state formats, and control-plane releases quarterly.

CANDIDATE	ADJ. SCORE	GATE POSITION	LAB STATE
Terraform	51.3	PASS - enterprise declarative delivery; CONDITIONAL - licensing, state, and provider trust	PENDING
OpenTofu	50.8	PASS - open sovereign IaC; CONDITIONAL - enterprise workflow and support model	PENDING
Pulumi	50.8	PASS - software-engineering-centric IaC; CONDITIONAL - language and dependency governance	PENDING
Crossplane	49.7	PASS - internal developer platform control plane; NOT EQUIVALENT - continuous reconciliation changes the operating model	PENDING

REVALIDATION SCHEDULE

Review no later than 2026-10-24. Review earlier after a major release, commercial change, critical vulnerability, material outage, architecture transition, failed acceptance test, or change to the target workload profile.

SOURCE AUTHORITY AND REVISION

CURRENT EVIDENCE SNAPSHOT AND PUBLICATION HISTORY

SOURCE ID	PUBLISHER	TITLE	CHECKED
NIST-CSF-20	NIST	Cybersecurity Framework 2.0	2026-07-24
NIST-SP800-53	NIST	Security and Privacy Controls for Information Systems and Organizations	2026-07-24
TERRAFORM	HashiCorp	Terraform Documentation	2026-07-24
TERRAFORM-STATE	HashiCorp	Terraform State Documentation	2026-07-24
OPENTOFU	OpenTofu	OpenTofu Documentation	2026-07-24
OPENTOFU-ENC	OpenTofu	OpenTofu State and Plan Encryption	2026-07-24
PULUMI	Pulumi	Pulumi Infrastructure as Code Documentation	2026-07-24
PULUMI-STATE	Pulumi	Pulumi State and Backends	2026-07-24
CROSSPLANE	Crossplane	Crossplane Compositions	2026-07-24

SOURCE POSITION

Official documentation and source repositories support the current capability model. Source records preserve publisher, title, URL, purpose, and review date in the machine-readable authority register. Commercial terms, performance, and environment-specific behavior remain unverified until controlled proof.

REVISION HISTORY

1.1.0-candidate / 2026-07-24 - permanent-publication rebuild using the final benchmark system, profile-specific rankings, evidence adjustment, mandatory gates, and controlled PoC requirements.