OPEN-SOURCE MCP FOR APACHE NIFI

Make NiFi agentic.

Your pipeline just got a copilot.

Give AI the context to understand your flows, investigate failures with cited evidence, and draft what comes next.



Live NiFi access is read-only.
Changes stay in your hands.

THE PREVIEW

Context. Evidence. Reviewable drafts.

01	**Understand**	Map scoped processors, connections, configuration, and dependencies. Explain the flow in plain language.
02	**Investigate**	Inspect queues, alerts, and provenance. Keep observed facts, hypotheses, and missing evidence distinct.
03	**Propose**	Generate reviewable flow drafts as local files. Drafts are experimental; import and validation are separate actions.

Human approval stays in the cockpit.

Approved execution is a roadmap goal. This preview does not change live NiFi.

From first demo to critical workflow.

01 / TRY THE PREVIEW

```
uv tool install nifimcp-server==0.1.0rc1
nifimcp demo
```

Requires Python 3.12. The demo uses a bundled synthetic capture from real NiFi; no NiFi instance, model, or account is needed to try it.

GitHub repository | PyPI package | Capability matrix

02 / KNOW THE FLIGHT ENVELOPE

Tested scope

NiFi	2.12.0, single node, certificate auth
Platform	Linux x86_64, Python 3.12
AI client	Claude Code

Three blocked gates

Clusters: refused in live mode.

Other platforms: untested.

AI accuracy: not measured.

Other versions, authentication methods, and clients may be untested or unsupported. Check the matrix. An offline installer does not establish whole-system air-gap readiness.

03 / BRING US ONE CRITICAL WORKFLOW

NiFi Engineering Sprint

One important workflow. A clear finish line. Scope the problem, implement the agreed change, and receive validation evidence and an operator runbook. Scope, fee, access, and acceptance criteria are agreed before work begins.

Scope an engineering sprint

Optional forward-deployed engineering follows, remote or on site, with an agreed delivery plan.

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