PROFESSIONAL SERVICES

DataFlow: Upgrading NiFi 1 to NiFi 2

Accelerate your upgrade with Cloudera Professional Services

With an increasing demand for GenAI workloads, scalable data pipelines, and enterprise governance, organizations need a modern dataflow solution that is efficient, secure, and future-ready. Upgrading from NiFi 1 to NiFi 2 with Cloudera unlocks powerful new capabilities for both users and admins — including support for Python-based processors, RAG pipelines, rule-based flow enforcement, and a set of Cloudera-exclusive components available only to our customers. Cloudera provides a structured, low-risk migration approach, leveraging automation and best practices to ensure a seamless transition.

NiFi 2 Upgrade with Cloudera Professional Services

Our NiFi 2 Upgrade provides expert planning & migration services to help ensure a smooth transition from NiFi 1.x to NiFi 2.x with minimal disruption to business-critical dataflows. Cloudera provides flexible services to support you throughout your journey, whether you are at the early planning stage or migration-ready.

NiFi 2 Upgrade Assessment

Environment review
Review of customer existing NiFi platform and configurations

Impact assessment
Upgrade assessment on current NiFi flows (with automation tooling)

Migration approach
Documented impact assessment and migration approach for customer

The NiFi 2 Upgrade Assessment is a short structured engagement to evaluate your current environment, assess migration impact, and define a tailored upgrade strategy. Ideal for organizations looking to understand the implications before moving forward with the upgrade.

NiFi 2 Upgrade

NiFi flow migration
Convert flows from NiFi 1 to NiFi 2 (with automation assisted tooling)

Custom code updates
Where applicable, apply API updates and custom code updates

Migration cutover
Application testing, cutover, and customer enablement

The engagement is a guided migration that includes migration planning, NiFi flow conversion, custom code updates (if applicable), SME support for migration testing, and enablement.

Why choose Cloudera Professional Services?

- **Extensive technical expertise —** Cloudera's global services team brings unmatched experience designing, architecting and implementing open source data & AI solutions for the enterprise.

- **Proven delivery accelerators —** Cloudera combines deep experience with a toolkit of accelerators to cut delivery from months to weeks — reducing risk, driving innovation, and faster ROI on data investments.

- **Comprehensive service offerings —** From on-premises to cloud, Cloudera supports your entire data journey — ranging from solution design, to implementation and production readiness across Data In Motion, Data Lakehouse, & AI.

- **Enterprise-grade design principals —** Helping build secure, portable, and well documented data applications — ensuring governance, hybrid cloud flexibility, and retained knowledge.

- **Driven by customer success —** Cloudera is built around the success of its customers — driving measurable outcomes and aligning every engagement to client goals and long-term impact.

Services engagement schedule

- **NiFi 2 Upgrade Assessment:** ~1 week
- **NiFi 2 Upgrade:** Tailored packages*

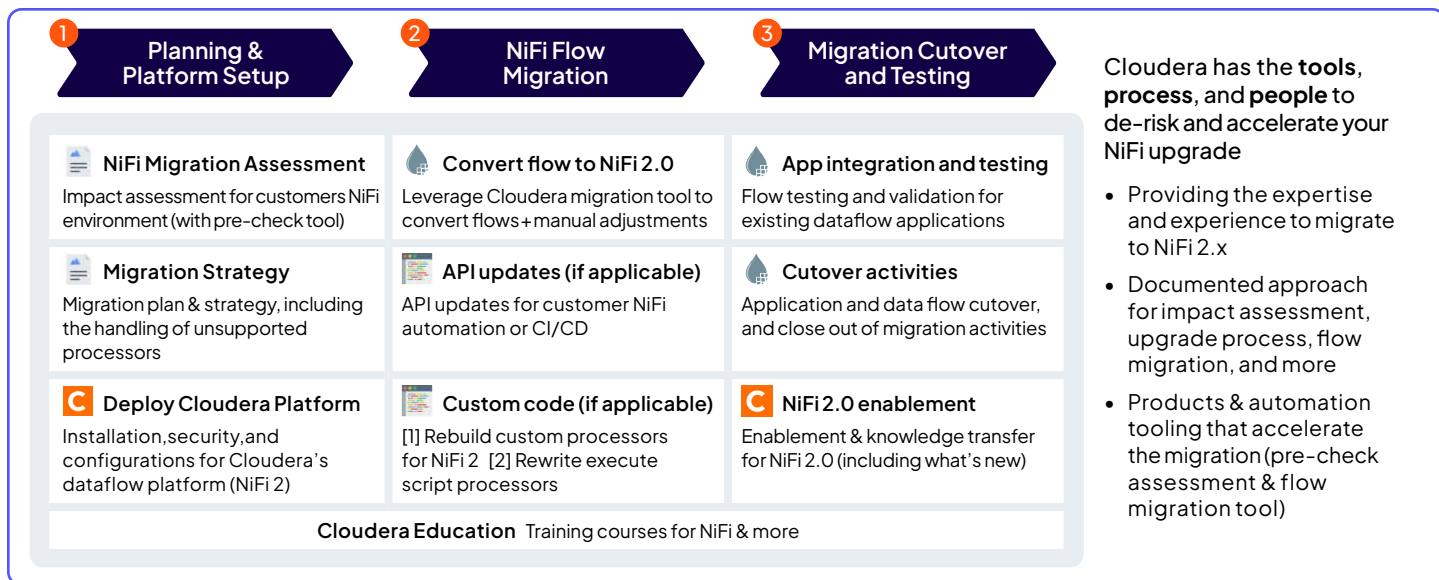*schedule based on customer data flow deployment size and flow complexity

Start the journey today

Book a free 1-day workshop with our solution experts. Contact your Cloudera representative for more details.
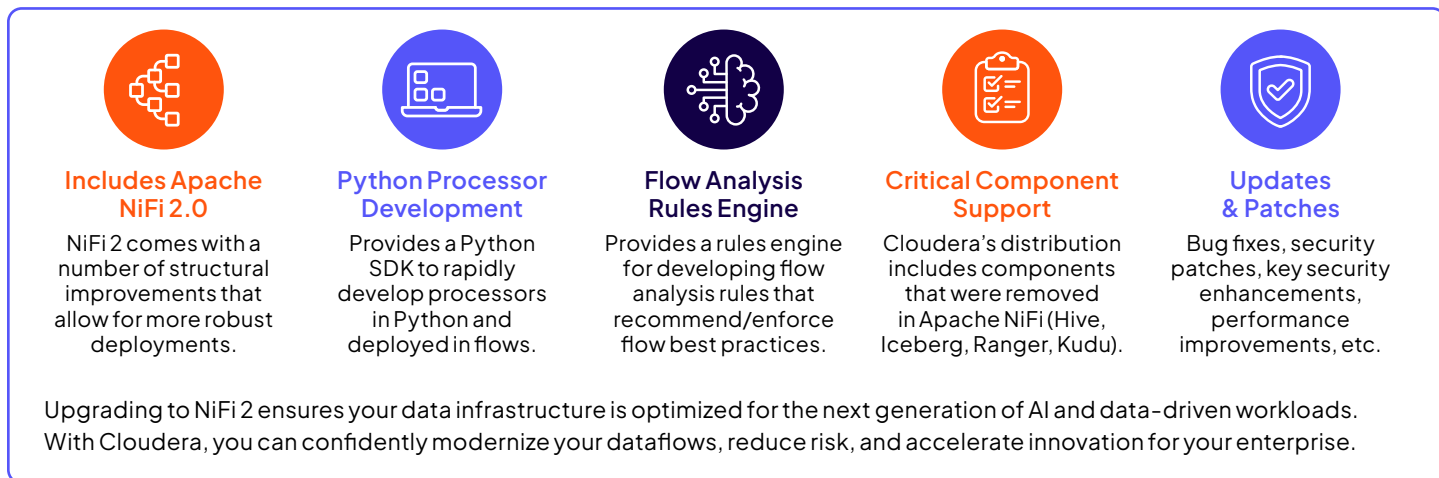
Learn more at cloudera.com

Services Approach & Methodology

Cloudera's structured migration approach combines proven methodology, automation tooling, and expert guidance to ensure a seamless transition to NiFi 2.0. The process is designed to de-risk your upgrade while enabling your team with the knowledge and tools needed for long-term success.

1 — Planning & Platform Setup

2 — NiFi Flow Migration

3 — Migration Cutover and Testing

Planning & Platform Setup	NiFi Flow Migration	Migration Cutover and Testing
NiFi Migration Assessment Impact assessment for customers NiFi environment (with pre-check tool)	**Convert flow to NiFi 2.0** Leverage Cloudera migration tool to convert flows + manual adjustments	**App integration and testing** Flow testing and validation for existing dataflow applications
Migration Strategy Migration plan & strategy, including the handling of unsupported processors	**API updates (if applicable)** API updates for customer NiFi automation or CI/CD	**Cutover activities** Application and data flow cutover, and close out of migration activities
C Deploy Cloudera Platform Installation, security, and configurations for Cloudera's dataflow platform (NiFi 2)	**Custom code (if applicable)** [1] Rebuild custom processors for NiFi 2 [2] Rewrite execute script processors	**C NiFi 2.0 enablement** Enablement & knowledge transfer for NiFi 2.0 (including what's new)

Cloudera Education Training courses for NiFi & more

Cloudera has the **tools**, **process**, and **people** to de-risk and accelerate your NiFi upgrade

- Providing the expertise and experience to migrate to NiFi 2.x
- Documented approach for impact assessment, upgrade process, flow migration, and more
- Products & automation tooling that accelerate the migration (pre-check assessment & flow migration tool)

Unlock the Full Potential of Cloudera Flow Management with NiFi 2

Cloudera Flow Management with NiFi 2 brings a range of enhancements that improve flexibility, performance, and governance for enterprise dataflows. With new capabilities for AI, python-based processor development, flow analysis rules, and Cloudera-exclusive support of critical components, this upgrade sets the foundation for modern data engineering and data flow workloads.

Includes Apache NiFi 2.0
NiFi 2 comes with a number of structural improvements that allow for more robust deployments.

Python Processor Development
Provides a Python SDK to rapidly develop processors in Python and deployed in flows.

Flow Analysis Rules Engine
Provides a rules engine for developing flow analysis rules that recommend/enforce flow best practices.

Critical Component Support
Cloudera's distribution includes components that were removed in Apache NiFi (Hive, Iceberg, Ranger, Kudu).

Updates & Patches
Bug fixes, security patches, key security enhancements, performance improvements, etc.

Upgrading to NiFi 2 ensures your data infrastructure is optimized for the next generation of AI and data-driven workloads. With Cloudera, you can confidently modernize your dataflows, reduce risk, and accelerate innovation for your enterprise.

CLOUDERA

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Cloudera is the only true hybrid platform for data, analytics, and AI. With 100x more data under management than other cloud-only vendors, Cloudera empowers global enterprises to transform data of all types, on any public or private cloud, into valuable, trusted insights. Our open data lakehouse delivers scalable and secure data management with portable cloud-native analytics, enabling customers to bring GenAI models to their data while maintaining privacy and ensuring responsible, reliable AI deployments. The world's largest brands in financial services, insurance, media, manufacturing, and government rely on Cloudera to be able to use their data to solve the impossible—today and in the future.

To learn more, visit Cloudera.com and follow us on LinkedIn and X.