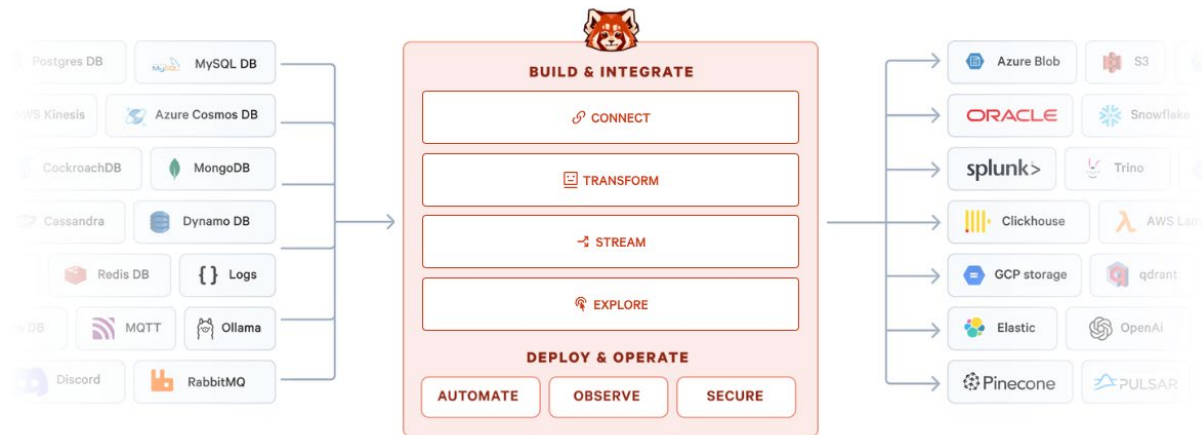**Redpanda**

The streaming data platform for developers

Redpanda is the most complete, Apache Kafka®-compatible streaming data platform, designed from the ground up to be lighter, faster, and simpler to operate. The all-in-one platform allows data teams to build fast, spend less, and reduce risk — all while prioritizing a superior end-to-end developer experience.

Simple to use and manage

Redpanda makes it simple for developers, architects and analysts to infuse real-time data across their applications. It's one stop to connect data sources, process transformations, and govern & explore data streams. All in a single self-contained package that's easy to deploy.

Cost effective at scale

Redpanda reduces the total cost of streaming data by 6x, because its hardware-efficient design consumes 3x lower compute resources on average, and its tiered cloud storage optimizes the cost efficiency of data retention.

Real-time AI applications

Redpanda flips the script on third-party LLM services. Sovereign AI is a prescriptive Redpanda architecture that keeps proprietary data private, on your own streaming infrastructure, while giving teams the ability to easily connect the best models for efficient fine-tuning and real-time inferencing.

Reliable for mission-critical workloads

Redpanda is safer for critical workloads because it runs anywhere securely, supports open data formats, and enables enterprise compliance. Run on-prem or as a managed service on AWS, GCP or Azure. Query from your analytics engine of choice with support for Apache Iceberg®. Ease compliance with audit logs, RBAC and more.

What makes Redpanda different?

Engineered for multi-core

Redpanda was engineered from scratch and written in C++ to extract the best performance out of every core, disk, memory chip, and network byte. It uses a patent-pending thread-per-core architecture to ensure the highest throughput, with the lowest possible latency, no matter where it's deployed: global multi-region cloud clusters, on-prem bare metal hardware, private cloud containers, or at the edge.

Cloud-first storage

Redpanda clusters use cloud object storage as the default storage tier. This enables Redpanda to deliver new capabilities, such as Remote Read Replicas, Tiered Storage, and Cloud Topics that let you manage and distribute petabytes without breaking the bank on extra storage costs, and with minimal administrative overhead.

Native Raft

Redpanda leverages the Raft consensus protocol for its data management and control functions to improve performance, data safety, and cluster reliability, no matter the size and shape of your workloads. Since the nodes natively speak Raft, there are no additional quorum servers to manage.

Single binary

Redpanda nodes deploy as self-sufficient processes with built-in schema registry, http proxy, Kafka API compatibility, Raft consensus, and more. They are free from external dependencies like JVMs, ZooKeeper™ clusters, or KRaft nodes. A smaller compute footprint and fewer components means faster boot times, simpler CI/CD integration, and more reliable production environments.

Data sovereignty

Want the data controls of self-hosted clusters but the ease of Cloud? Redpanda Cloud's Bring Your Own Cloud (BYOC) approach gives you fully managed clusters that run within your VPC. Redpanda manages resource provisioning, monitoring, and upgrades, without your data and credentials ever leaving your environment.

Lightweight connectors

Redpanda Connect requires 3x less compute resources than Kafka Connect, and makes it boringly easy to build composable data pipelines. It's a reliable alternative to heavyweight systems, combining declarative YAML and git-ops version control for quick iteration and easy adaptability. Choose from 260+ pre-built open-source connectors, all packaged as a single lightweight Go binary.

> "Redpanda was able to handle the same load on far less resources than Kafka required. It was 5 to 6 times more efficient, greatly reducing our hardware costs as well as support and licensing costs."
>
> - **Michael Pearce** Sr. Architect, StoneX

StoneX®

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