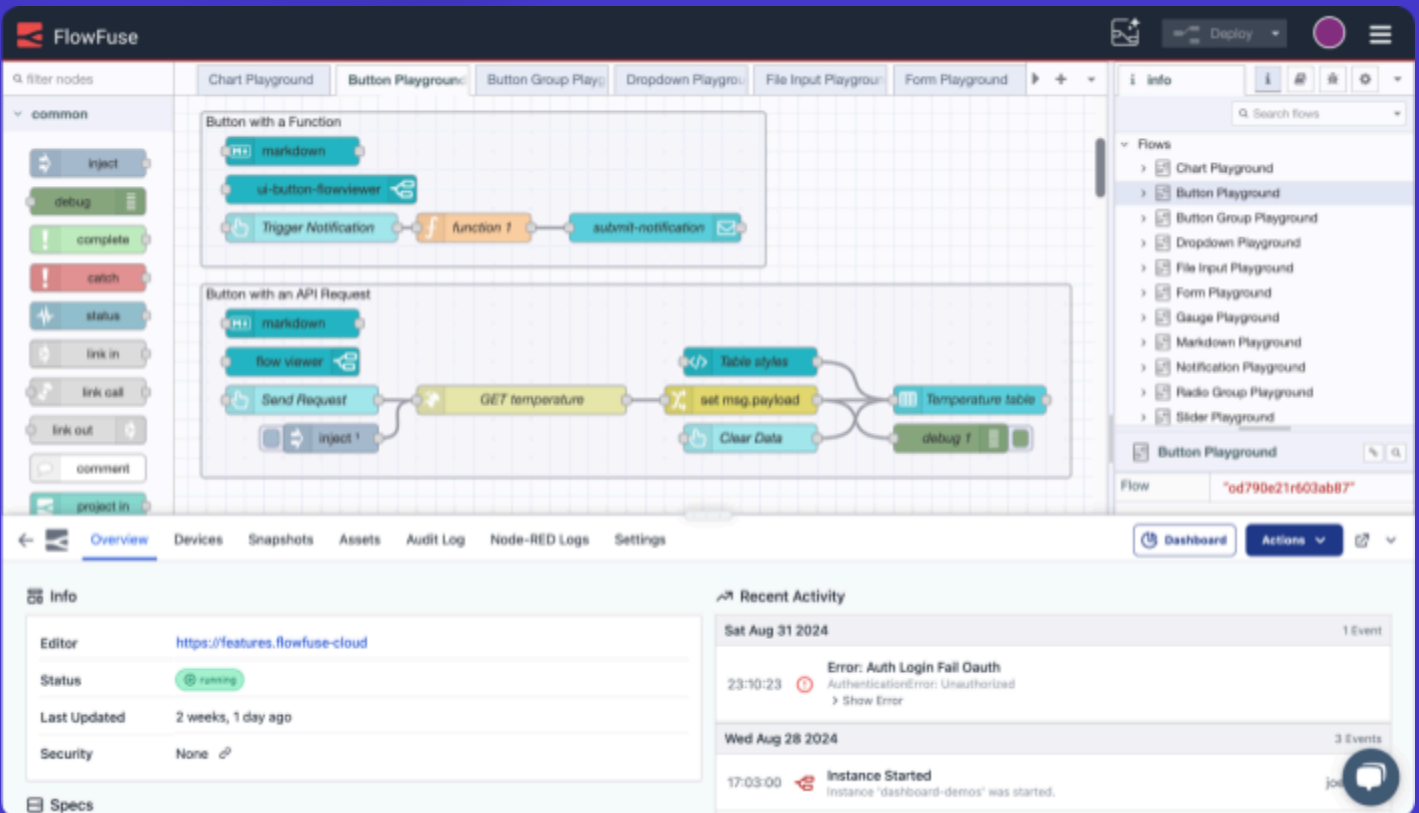


Node-RED in the Enterprise

Manage · Scale · Collaborate · Secure

FlowFuse Platform Overview

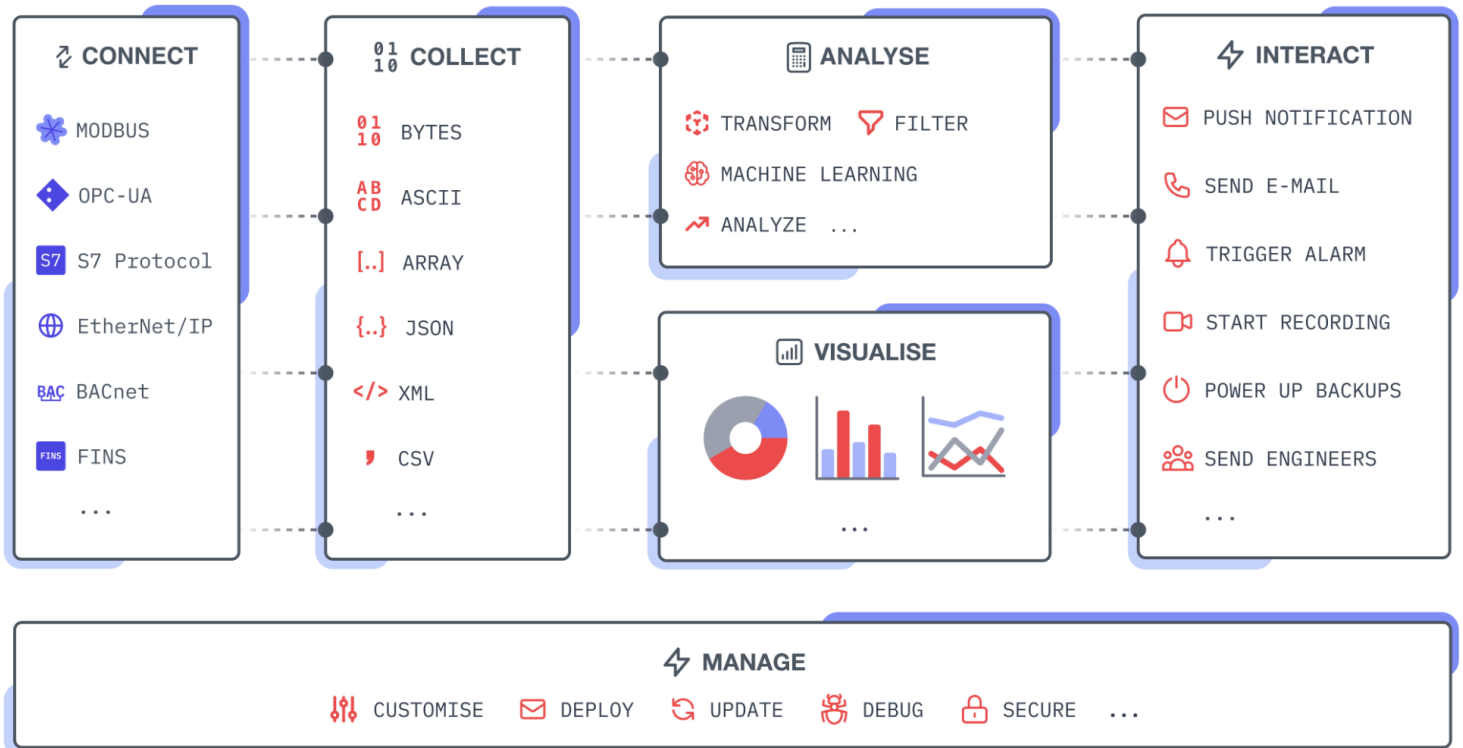


End-to-end Industrial Data Platform

In today's highly competitive industrial landscape, achieving growth and profitability demands a continuous commitment to process improvement. To fuel innovation, however, your team needs seamless access to data and the capability to quickly build applications that transform raw information into actionable operational insights. By rapidly collecting and transforming data directly from your operations, your team gains the agility to make timely process adjustments, driving real business value and boosting your bottom line.

FlowFuse is a comprehensive platform that empowers you to seamlessly connect, collect, transform, visualise, and interact with your industrial data, all in one place. At the core of FlowFuse is Node-RED, where you can break down data silos and unlock valuable insights with ease.

While Node-RED is a powerful tool, scaling it to meet the demands of a larger operation presents unique challenges. Key enterprise requirements like security, compliance, production-grade reliability, and effective team collaboration often require additional infrastructure or customisation to ensure success. This is where FlowFuse comes in.



Build

FlowFuse simplifies the process of starting with Node-RED and keeping it updated. Compared to traditional methods, which involve manually installing Node.js and Node-RED and keeping track of version changes, FlowFuse offers a streamlined solution. By creating an account on [FlowFuse Cloud](#), users get an automatically created Node-RED instance with specified versions of Node-RED and Node.js. This eliminates the time-consuming and complex installation process, allowing users to start programming with Node-RED in less than a minute. FlowFuse also enables users to change Node-RED and Node.js versions easily, making it a hassle-free way to stay up-to-date.

FlowFuse strives to be the best place to build Node-RED applications by providing tools to help users build applications with more confidence:



Trust: [Certified Nodes](#) ensure Node-RED developers can trust the reliability, quality and security of third-party nodes they use in applications.



Version Control: [Snapshots](#) capture point-in-time views of Node-RED flows, environment variables and other configuration settings. We even capture automatic snapshots of your flows every time you deploy, so you can always be confident you have a backup.



Collaborative Development: We are building FlowFuse to be a platform that enables teams to work seamlessly together on Node-RED applications. From the [Team Library](#), through to [Node-RED Multiplayer](#), we want to make sure that FlowFuse is the best platform for collaborative development in Node-RED.



Remote Access: FlowFuse provides a secure way to access your Node-RED instances and devices from anywhere in the world, so that you can build and debug your applications with ease.

Manage

With FlowFuse, you can manage thousands of Node-RED instances in one place. We ensure a clear picture of what's happening across all of your instances and provide tools to help you manage them effectively.



Centralised Management: FlowFuse provides a single entry point to manage all of your Node-RED instances, no matter where they are hosted.



Security: FlowFuse provides a range of security features to help you keep your Node-RED instances secure. From [Two-Factor Authentication](#) to [Role-Based Access Control](#), we're building FlowFuse to be the most secure way to manage your Node-RED instances.



Frictionless Maintenance: Whether you're updating your Node-RED version, or one of the many third-party dependencies that your applications depend upon, FlowFuse provides tools to make it easy to keep your instances up-to-date and running smoothly.



Observability: FlowFuse provides tools to help you keep an eye on your Node-RED instances and make sure they're running smoothly. Get alerts when something goes wrong, and use the [Audit Logs](#) to help you debug issues when they arise.

Scale

With FlowFuse, we aim to provide the best way to deploy Node-RED applications to production environments, whether that be to hundreds of remote devices, or via staging environments to ensure you can deploy with confidence.



DevOps: Test your applications in development and staging environments, ensuring you can deploy them with confidence to production.



Remote Deployments: Deploy your applications to hundreds of remote devices with a single click, ensuring you can get your applications running in production quickly and easily.



Reliability: FlowFuse users can have trust that their applications will run without issues with features like [High Availability](#). FlowFuse makes sure users have the tools to monitor and manage the reliability of their applications, including being alerted when things go wrong, and making the recovery as easy as possible.



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