IntellectEU Catalyst

Catalyst Blockchain Manager provides a robust infrastructure management solution designed to simplify and accelerate blockchain application implementation with enterprise-grade scalability, security, and seamless integration.

Catalyst offers **Node-as-a-Service for the Canton Network**, a fully self-managed service that eliminates the complexities of manual node management while unlocking the full potential of the Canton ecosystem. With Catalyst, Canton adoption becomes seamless, efficient, and future-proof.

Catalyst Blockchain Manager simplifies Canton node deployment and management with intuitive interfaces and APIs, streamlining processes like participant onboarding and smart contract deployment. It ensures operational efficiency, enabling systems to remain robust and resilient by automating backups, restoration, and disaster recovery while maintaining enterprise-grade security. Catalyst also supports real-time performance monitoring and scalable resource allocation, making it ideal for production-grade workloads. Its cloud-agnostic flexibility allows deployment across diverse infrastructures without cloud vendor lock-in and the ability to install on-premises, ensuring adaptability and cost efficiency for businesses.

How do I deploy a Canton validator node with Catalyst?

Catalyst Blockchain Manager can be installed with Infrastructure as Code (IaC) tools or HELM Charts. After installation, Catalyst features a powerful API console and a user-friendly interface that offers seamless access and operation for both technical and non-technical users.

To create a validator node, users navigate to the validator section, where they can see an overview of existing validator nodes and have the option to create a new one. When creating a new node, we define the network parameters and specify the required parameters, making the process intuitive and efficient. Catalyst handles the provisioning and setup of the Canton validator node and offers robust management tools to deploy applications, upgrade versions, manage participants, configure backups, recover, and integrate with monitoring systems. Once the node is operational, users can see an overview, navigate to the wallet interface, and perform all necessary operations through the Catalyst platform to participate in the Canton Network.

How is Catalyst different from self-hosting?

- **Expertise on demand:** Self-hosting demands in-house expertise for setup, management, and troubleshooting, often leading to delays and errors. Catalyst mitigates these challenges with built-in best practices and expert support.

- **Cost-effectiveness:** For a fixed monthly fee at a fraction of the cost of a full-time DevOps, Catalyst provides automated and streamlined processes that reduce the time and resources required to maintain and scale infrastructure.

- **Resilience and reliability:** Built-in disaster recovery and high-availability configurations ensure uptime and operational integrity, outperforming self-hosted setups.

- **Reduced complexity:** Catalyst's abstraction layer simplifies the deployment and maintenance process, allowing teams to focus on use cases instead of network intricacies.

For organizations looking to focus on innovation and scaling their applications rather than infrastructure management, Catalyst provides a turnkey solution that simplifies node deployment and management, automates operational tasks, and ensures enterprise-grade security and compliance.

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