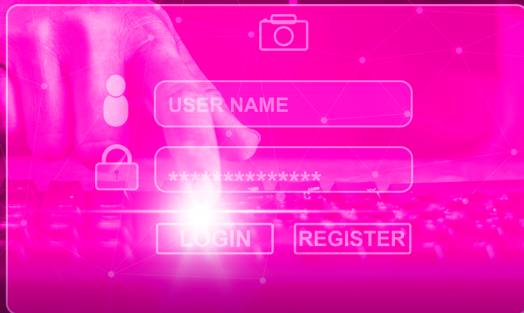




CASE STUDY

Powering Italy's digital identity: EtnaID builds resilient infrastructure with ClusterControl



EtnaID

Industry: Digital Signature / Digital Identity Services

Solution: ClusterControl by Severalnines

Databases: Galera Cluster for MySQL, MongoDB ReplicaSet

Hosting: 2 on-premises datacenters

Use case

Etna Hitech needed a single platform to deploy and manage HA MySQL and MongoDB for its EtnaID service, ensuring uptime, compliance, and data protection; without manual scripting or complex oversight.

Why Severalnines

ClusterControl gave EHT everything in one platform; rapid HA deployments, automated backups, failover, and recovery — without adding complexity. Real-time monitoring and alerts kept the team in control, while automation cut manual effort and risk, making Severalnines the backbone of EtnaID's reliability and compliance.

Background

Etna Hitech (EHT) is a consortium of over 70 innovative ICT-focused small and medium-sized enterprises based in Catania, Italy. Founded in 2005 and formalized in 2015, EHT plays a key role in driving technological development across the Etna Valley region, serving both public and private sectors. Acting as a general contractor, EHT coordinates complex digital transformation projects across Southern Italy, offering end-to-end services in applied research, consulting, and enterprise solutions.

One of its flagship projects is **EtnaID**, a SPID (Sistema Pubblico di Identità Digitale) service accredited by AgID. EtnaID provides Italian citizens and businesses with secure, government-recognized digital identities to access public services. As usage of the service expanded, EHT needed to ensure maximum uptime, regulatory compliance, and infrastructure resilience across two datacenters—without adding operational complexity or burdening their team.

Challenge

EtnalD operates under strict Service Level Agreements (SLAs) and European regulatory standards, with little tolerance for downtime. With growing adoption and increased demands on its infrastructure, EHT needed to ensure that the underlying MySQL Galera and MongoDB ReplicaSet databases could maintain high availability, robust failover, and seamless backup and recovery processes.

Previously, EHT had developed ad-hoc monitoring tools for database environments, solutions that were time-consuming to maintain and lacked the comprehensive visibility required for mission-critical services. Installing and configuring highly available databases often required weeks of technical work and ongoing manual oversight.

Solution

To streamline operations and strengthen reliability, EHT adopted ClusterControl as the management platform for EtnalD's database infrastructure.

“Based on our past experiences in environments with HA databases, where installation and configuration took weeks, we chose ClusterControl because it enabled rapid deployment of a highly available database with no technician involvement beyond the initial setup through the graphical interface.”

Key benefits of ClusterControl included:

- **Deployment and management of Galera Cluster for MySQL and MongoDB ReplicaSets** in an HA configuration.
- **Centralized backup scheduling** with automated uploads to the cloud for disaster recovery.
- **Automated failover and recovery workflows** to minimize downtime and manual intervention.
- **Real-time monitoring and alerting**, allowing the operations team to maintain full visibility and control over performance and availability.

By integrating ClusterControl, EHT ensured that even under peak usage or unexpected failure scenarios, EtnalD could maintain its promise of secure and uninterrupted identity services.



Outcome

ClusterControl now plays a central role in managing the EtnaID SPID database infrastructure, enabling the EHT team to meet demanding SLA and compliance requirements without increasing operational overhead.

Key outcomes:

- **Rapid deployment** of HA databases without manual scripting or extended technician involvement
- **Streamlined monitoring and backup validation**, saving hours of manual effort each week
- **Zero unplanned downtime** during maintenance or recovery operations
- **Reliable daily backups**, stored both locally and in the cloud for added protection
- **Improved confidence** in maintaining and scaling a critical identity service for public use

With ClusterControl in place, EHT has laid the foundation for a scalable, self-reliant infrastructure that will support EtnaID's continued growth and innovation in Italy's digital services landscape.



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