



RapidStart: The Power of MongoDB at the Speed of Relevance

Solution Brief

To enable sustainable innovation and the highest possible performance against their missions, public sector customers need a data platform that is well-suited to iteration, combined with cloud-native tools. But few government technologists have experience in these particular areas. That makes it difficult for them to configure and implement these technologies and platforms for maximum security, performance, and efficiency.

Industry drivers

Cloud migration

A May 2021 [Executive Order on Improving the Nation's Cybersecurity](#) instructs the government to “accelerate movement to secure cloud services” as part of an effort to help modernize the government’s approach to cybersecurity.

Budget and security constraints

Government agencies typically have limited budgets for professional services assistance. Most professional services firms don’t have personnel that can meet the demanding security requirements of federal agencies.



Talent shortage

Their historical reliance on relational databases and closed networks means that few agencies have developed the internal talent needed to use and support newer data platforms and cloud-native tools. Recruiting outside professionals is difficult, and they often lack the clearances necessary to work in secure environments.

Air-gapped networks

Government agencies often work in air-gapped, private networks, making it difficult to use cloud-native technologies and services. Many applications and technology platforms need bespoke configurations to operate optimally in these environments.

Developer autonomy

Developers would rather manage their databases themselves – given the proper tools and training – than rely on a database administrator to do it for them.

How we can help

MongoDB RapidStart, a joint offering of MongoDB and Clarity Business Solutions, ensures that government teams new to MongoDB Enterprise Advanced or MongoDB Atlas are set up for success. In this short, intense engagement, Clarity's engineers enable public sector clients to operate MongoDB in a consistent and secure manner from the very beginning—by establishing foundational best practices for deployment, automation, security, data modeling and query optimization.

Clarity will collect vital information from the customer before the engagement begins, allowing Clarity engineers to hit the ground running. Staff at federal agencies can be confident in sharing information with the Clarity team: Clarity engineers hold security clearances and can be badged for on-site visits. All are U.S. citizens on U.S. soil.

Clarity engineers can consult and provide input on schema design, leveraging key MongoDB features, and train your staff on the latest best practices for using MongoDB.

Use cases

MongoDB first-timers

Sometimes an agency will want to use MongoDB but not have any staff that have used it before. In other cases, agency staff are familiar with MongoDB Community Edition but have not used Enterprise Advanced or Atlas. RapidStart makes sure that teams get the most out of all the capabilities and features of Enterprise Advanced or Atlas.

Ops Manager installation

Installing [MongoDB Ops Manager](#) can be particularly nuanced in private air-gapped environments. In default mode, Ops Manager relies on the ability to pull

installation packages from the internet. Some teams will have Ops Manager running perfectly in a testing environment but then have difficulty running it in production because of firewall rules that prevent communication with the Ops Manager server. Clarity helps RapidStart clients get Ops Manager installed and running optimally from the very beginning.

Database schema recommendations and education

Clarity advises on data models and makes recommendations regarding sharding, the best ways to migrate to sharding collections, and appropriate indexes.

IT drivers



Data privacy



Security



Cloud-native tooling



Reliability



Availability



Accelerate innovation



Automation



Agility

Performance optimization of indexes and queries

Clarity uses monitoring tools such as log analysis for slow queries, then helps determine the need for additional indexes that could improve query performance.

Automation

Automation capabilities include MongoDB Ops Manager's own orchestration capabilities, as well as Ansible to pre-place executables and configuration files to configure database clusters.

Talk to a MongoDB professional about RapidStart for your organization.