Manage your application's database infrastructure with ease using AWS CloudFormation and MongoDB Atlas

With AWS CloudFormation and MongoDB Atlas, your AWS based developers can flexibly and easily manage, provision, and deploy MongoDB Atlas resources to build modern applications. MongoDB provides multiple ways for teams to get started with CloudFormation and Atlas making managing infrastructure simple and efficient.

Provision your way

Manage, provision, and deploy Atlas Clusters in MongoDB Atlas in multiple ways. Atlas and CloudFormation give you the choice to use the method that meets your needs.

JSON/YAML Templates

Teams can directly leverage MongoDB Atlas resources from the CloudFormation Public Registry and execute via the AWS CLI / AWS Management Console. Resources in the CloudFormation Public Registry can be quickly and easily deployed to create infrastructure for MongoDB Atlas.
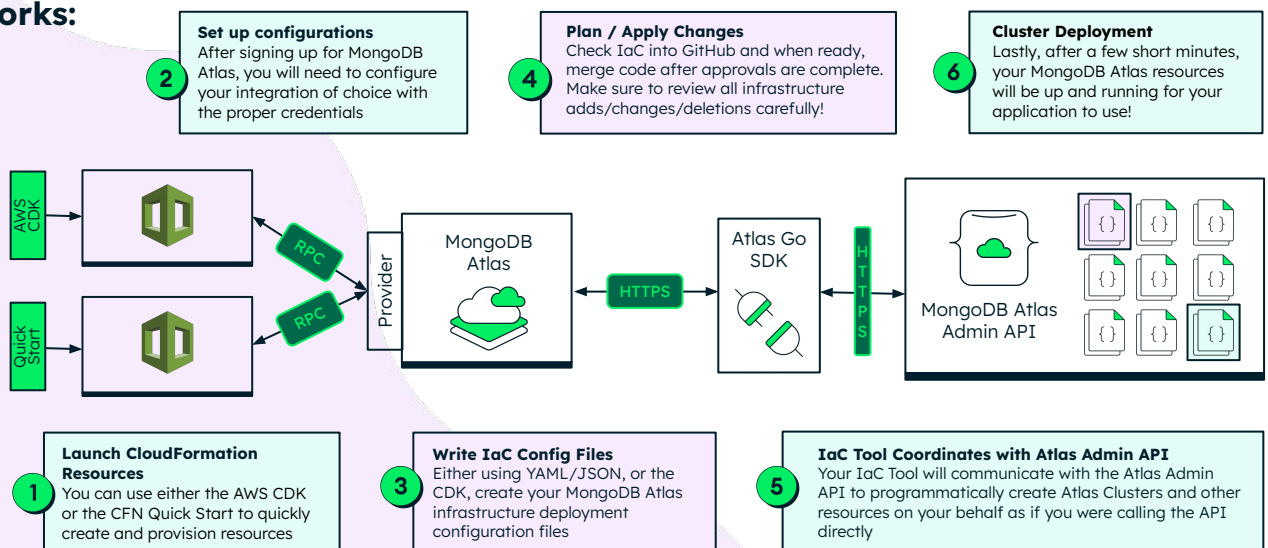
AWS Quick Starts

The AWS CloudFormation Quick Starts allow you to quickly provision MongoDB Atlas resources across a variety of use cases, such as MEAN Stack with AWS Fargate or analytics use case with Amazon SageMaker, in just a few clicks, without the need for manual configuration.

AWS Cloud Development Kit (CDK)

The CDK leverages concepts and libraries from the MongoDB Atlas Admin API to help provision resources natively in the language of your choice, providing a developer-friendly workflow without having to worry about learning JSON/YAML.

How it works:

2. Set up configurations
After signing up for MongoDB Atlas, you will need to configure your integration of choice with the proper credentials

4. Plan / Apply Changes
Check IaC into GitHub and when ready, merge code after approvals are complete. Make sure to review all infrastructure adds/changes/deletions carefully!

6. Cluster Deployment
Lastly, after a few short minutes, your MongoDB Atlas resources will be up and running for your application to use!

1. Launch CloudFormation Resources
You can use either the AWS CDK or the CFN Quick Start to quickly create and provision resources

3. Write IaC Config Files
Either using YAML/JSON, or the CDK, create your MongoDB Atlas infrastructure deployment configuration files

5. IaC Tool Coordinates with Atlas Admin API
Your IaC Tool will communicate with the Atlas Admin API to programmatically create Atlas Clusters and other resources on your behalf as if you were calling the API directly

AWS CloudFormation and MongoDB Atlas benefits

- Templates: Customers who prefer using CloudFormation as their primary IaC tool can now easily and in a fully automated manner deploy Atlas clusters
- AWS Quick Starts: Quickly create and manage AWS, MongoDB Atlas, and other Third Party resources directly from pre-configured CloudFormation templates where resources are grouped together for use cases like MEAN stack web deployments or analytics
- AWS CDK: Have a developer-friendly workflow for deploying cloud infrastructure that allows them to use the programming language of their choice.

About MongoDB Atlas on AWS

MongoDB's developer data platform, available in 27+ AWS regions, integrates all of the data services you need to build modern applications that are highly available, performant at a global scale, and compliant with the most demanding security and privacy standards within a unified developer experience. It handles transactional workloads, app-driven analytics, full-text search, AI enhanced experiences, stream data processing, and more, all while reducing data infrastructure sprawl and complexity. When you use MongoDB Atlas on AWS, you can focus on driving innovation and business value, instead of managing infrastructure .

About MongoDB

MongoDB is the leading modern, general purpose database platform, designed to unleash the power of software and data for developers and the applications they build. MongoDB is the developer data platform company empowering innovators to create, transform, and disrupt industries by unleashing the power of software and data. Headquartered in New York, MongoDB has nearly 43K enterprise customers (as of Q4 earnings) in over 100 countries. The MongoDB database platform has been downloaded over 325 million times and there have been more than 1.5 million registrations for MongoDB University courses.

Resources

- Get started for free in the AWS Marketplace
- Read How to Get Started with Atlas and the CDK in Typescript
- See repository
- See Website