Migrate from Elasticsearch or Solr to MongoDB Atlas Search with Pureinsights

Solution brief

To extract valuable insights efficiently, businesses need strong database search and query capabilities. However, bolt-on search solutions often introduce performance problems, increasing support and maintenance costs. Pureinsights simplifies the migration of Elasticsearch/Solr to MongoDB's native Atlas Search, enabling smoother transition and minimizing expenses and risks. By leveraging the robust MongoDB Atlas Search, organizations can enhance their search experience and optimize the retrieval of critical information.

Industry drivers

Cloud-based search applications

Search-based applications leveraging data are increasingly moving to the Cloud, becoming more advanced and complex.

### Increased architectural complexity and costs

While Cloud computing offers flexibility, complex application architectures can reduce developer efficiency and increase operational overhead.

Infrastructure consolidation

Consolidating data platforms and their native search capabilities offers numerous benefits. However, organizations want to minimize the risk of migrating from legacy search engines.

Absence of necessary expertise

Businesses often lack the expertise needed to navigate migration risks and to ensure optimal search experiences for users.
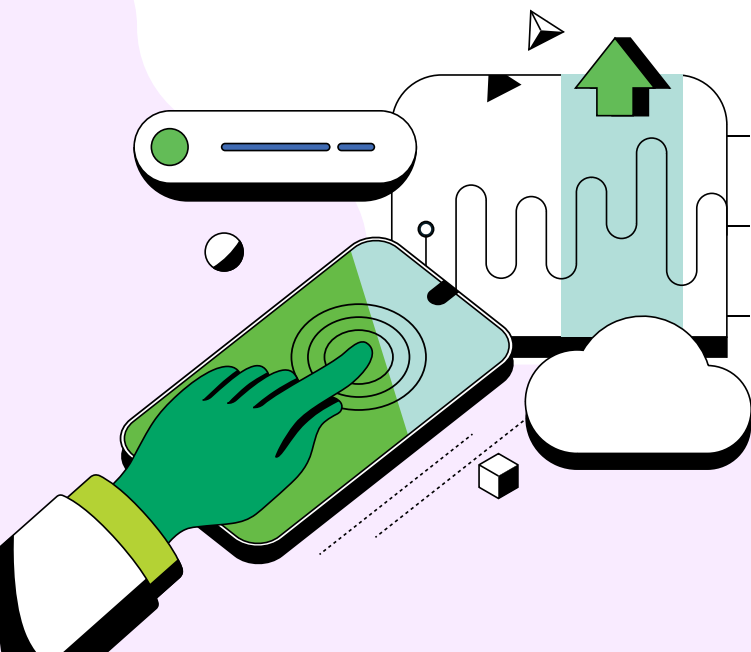
IT drivers

Search is not a core competency
Businesses require search functionality, but it is not their core capability.

Lack of technology and expertise
Businesses struggle to find the tools and expertise needed for successful integration or migration.

Increased developer productivity
Bolt-on search engines require developers to use separate query APIs, causing coordination challenges with schema changes.

Reduced architectural complexity
External search engines require additional systems and skills, making troubleshooting sync problems with the database an expensive affair.

Lower operational overhead
External search engines burden DevOps, straining efficiency and agility, and requiring additional resources for deployment, monitoring, and ongoing management.

Upkeep and maintenance
Post-migration, ongoing relevancy tuning and managed services are necessary to continually optimize user experiences.
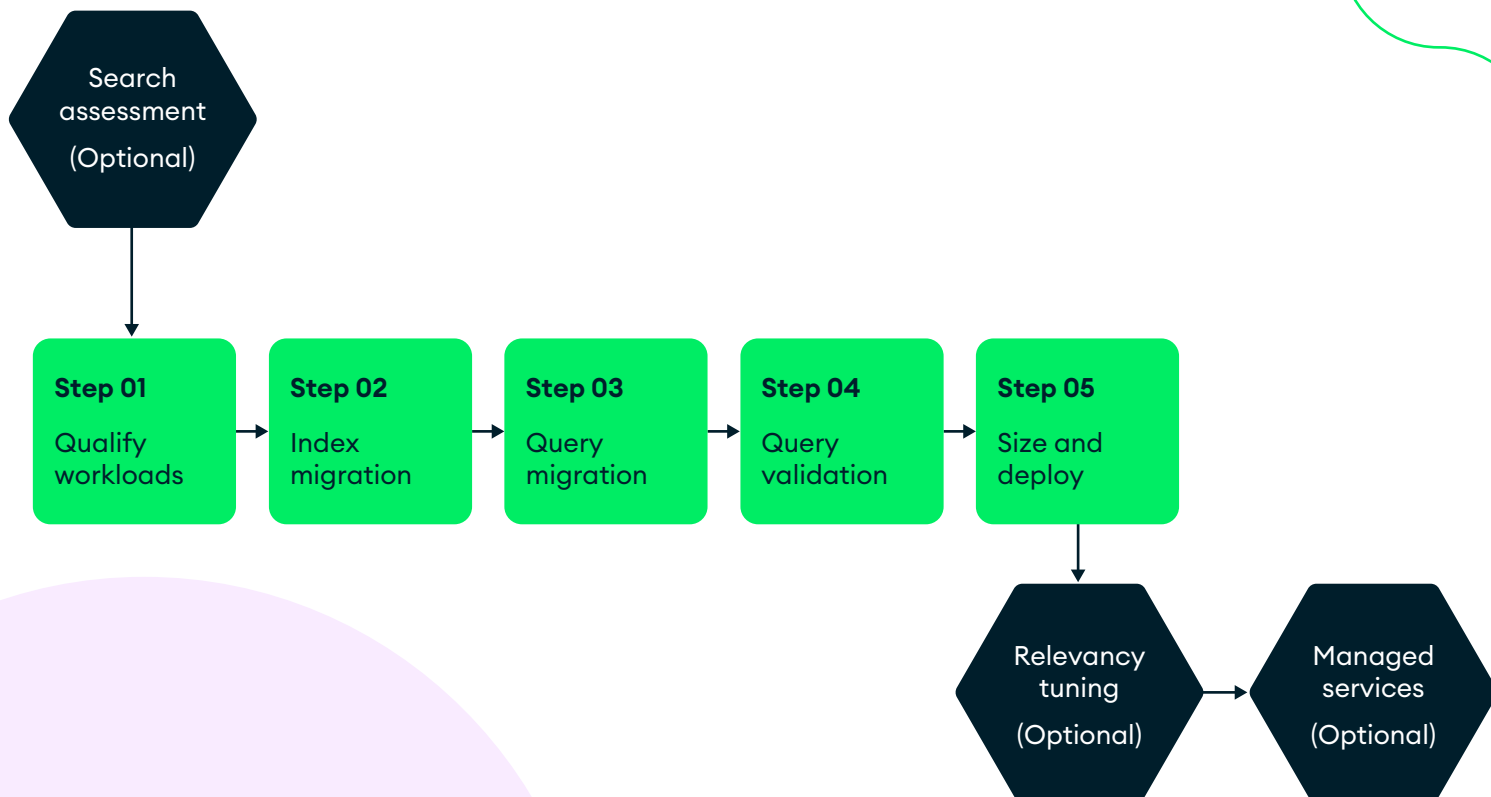
How can we help

MongoDB and Pureinsights collaborate to simplify platform migration to MongoDB Atlas Search, specifically for search workloads. With over 15+ years of search-based application expertise using Elasticsearch and Solr, Pureinsights offers comprehensive migration services, from single-workload to complex multi-workload scenarios. Their expertise extends to migrating database search workloads, ranging from simple corporate document repositories to complex search-and-match workloads.

With a fixed-price engagement, Pureinsights provides a migration roadmap and tailored Statement of Work (SoW) to address unique business objectives and technical requirements. The aim is to reduce risk and cost while enhancing search experiences. Pureinsights also provides managed services for ongoing search excellence and application optimization.

How it works

The Pureinsights approach aligns closely with MongoDB's recommended 5-step methodology for search workload migration. However, we recommend starting with a search assessment to clearly define business objectives and the desired end-state for multiple or complex migrations.

Pureinsights specializes in assessing and qualifying Solr or Elasticsearch workloads, even with content outside MongoDB, displaying its capability to handle diverse search applications on the MongoDB Atlas platform. Pureinsights also provides search relevancy tuning and managed services that guarantee optimal user experiences for search applications.

```
┌─────────────┐
│   Search    │
│ assessment  │
│ (Optional)  │
└──────┬──────┘
       │
       ▼
```

Step 01	**Step 02**	**Step 03**	**Step 04**	**Step 05**
Qualify workloads	Index migration	Query migration	Query validation	Size and deploy

```
                                        ┌─────────────┐      ┌─────────────┐
                                        │  Relevancy  │      │   Managed   │
                                        │   tuning    │─────▶│  services   │
                                        │ (Optional)  │      │ (Optional)  │
                                        └─────────────┘      └─────────────┘
```

Use cases

Pureinsights leverages its deep expertise to ensure a seamless and efficient migration process for a diverse range of workloads. Here are some prime examples where Pureinsights excels at effortlessly migrating both structured and unstructured data.

Online learning platform

MongoDB can serve as a metadata repository for storing online video training courses, enabling efficient organization and retrieval of course data for each user.

Online classified ad search

MongoDB is useful for storing searchable classified ad data for providing users with fast and flexible access to ads.

Product metadata repository

MongoDB acts as a search staging repository for product metadata, allowing online retailers to enhance customer product information search on their websites, improving the user experience.

Material safety data repository

MongoDB serves as a searchable document repository for Material Safety Data Sheets (MSDS) used by vendors to provide information through procurement websites, ensuring easy access and retrieval of essential safety data.

Regulatory data repository

MongoDB can act as a staging repository for tens of thousands of regulatory and relevant documents' metadata, providing a searchable service to the members of regulatory bodies and facilitating efficient access to information.

Speak with a MongoDB representative to migrate search data with Pureinsights.

MongoDB.   **pure**insights™