Run data integration jobs in a fully-managed environment using Data Integration Elastic, a licensed feature that is part of Data Integration.

Data Integration Elastic provides you with elastic clusters that you can use to process data integration jobs on the Serverless Spark engine. You configure an elastic configuration where you define the resources that you want to provision on your cloud platform, and the Secure Agent gets an elastic cluster up and running when you submit your first job. Over the course of the cluster lifecycle, the cluster adapts to the size and number of jobs by provisioning and deprovisioning resources such as cluster nodes and cluster storage. If the cluster becomes idle, the Secure Agent takes the cluster down so that you pay only for the resources that you use.

This quickstart will walk you through the following steps to run your first job on an elastic cluster:

1. Download and install a Secure Agent on a Linux machine.
2. Make sure that the Secure Agent has the necessary permissions to create an elastic cluster.
3. Complete any additional integration tasks that are specific to your cloud platform.

If you’re setting up an environment on AWS, learn about all of the integration tasks here. For Microsoft Azure, learn about the tasks here.
Create an elastic configuration

Using Administrator:
1. Create a new elastic configuration.
2. Configure the resources that you want to provision for the elastic cluster on your cloud platform.

Learn more about elastic configurations in your AWS or Azure environment.

Create a mapping

Using Data Integration:
2. Create the mapping to describe the flow of data logic from source to target.

Mappings can read and write data based on the connections that you configure in your AWS or Azure environment. For more information, see the help for the appropriate connector.

Learn more about mappings [here](#).

Create and run a mapping task

1. Create a mapping task based on the elastic mapping.
2. Choose the Secure Agent you created as the runtime environment.
3. Run the mapping task to push data processing to an elastic cluster.

Learn about mapping tasks [here](#).
Monitor the elastic job

1. Navigate to My Jobs.
2. Select the elastic job.
3. Review the results of the job and the Spark task details.

Elastic jobs are instances of elastic mappings and associated mapping tasks.

The jobs are translated into multiple Spark tasks that process the data logic simultaneously.

Learn more about monitoring elastic jobs [here](#).

Monitor the elastic cluster

Using Monitor:

1. Navigate to the Elastic Clusters page.
2. View the cluster properties.

For each cluster, you can also view the activity log, the lifecycle graph, the configuration, and the elastic jobs on the cluster.

Learn more about monitoring clusters [here](#).

Activity Log

3. Select the cluster instance.
4. View the activity log.

The activity log lists the events that occur on the cluster, such as startup and auto-scaling events.

Learn more about the activity log [here](#).
5. Select the lifecycle graph.
6. View the changes in the number of worker nodes over time.

The number of worker nodes changes as the Secure Agent auto-scales the cluster based on your workload.

Learn more about the lifecycle graph here.

7. Select the configuration.
8. Review the cloud resources that are provisioned for the cluster.

The elastic configuration that you view in Monitor is read-only.

9. Select the jobs on the cluster.
10. Monitor the elastic jobs that are running and the jobs that have completed.

Monitor elastic jobs for failure analysis and debugging of the elastic jobs or the elastic cluster.

Learn about monitoring elastic jobs here.

Need more info? Check out the Administrator and Data Integration help.