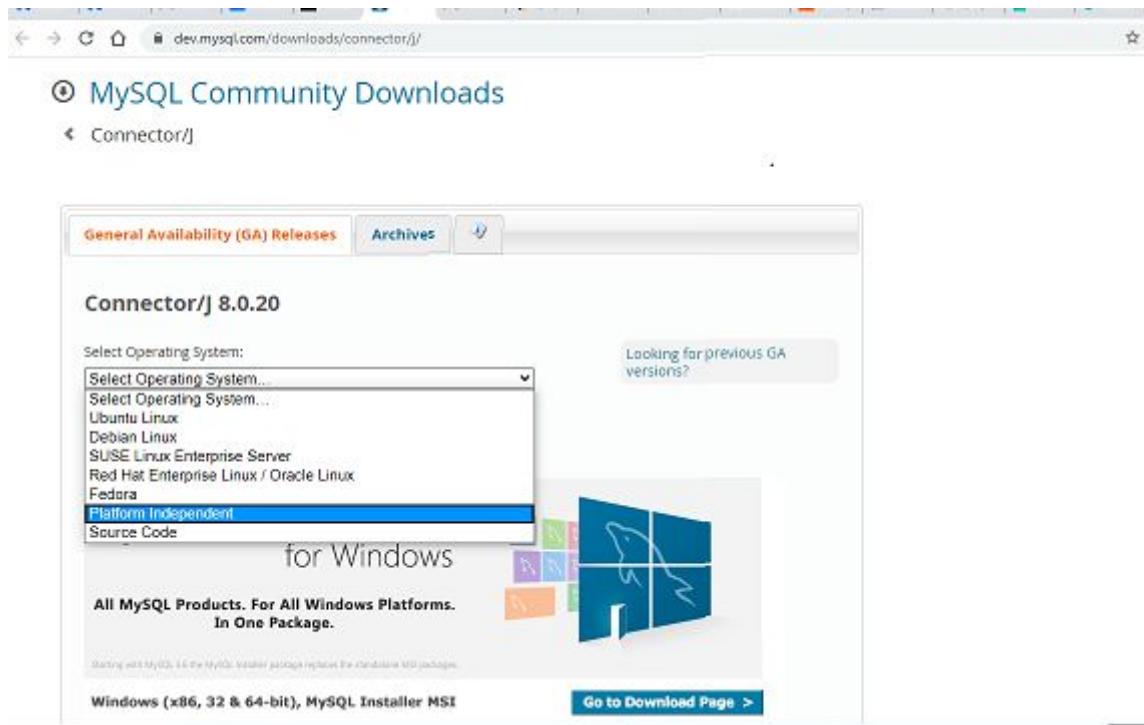


# Index a Mysql DB in Elasticsearch with Logstash

Download Connector -

<https://dev.mysql.com/downloads/connector/j/>



Create a logstash configuration file in our case "logstash\_mysql.conf" which has input output sections

```
input {
  jdbc {
    jdbc_connection_string => "jdbc:mysql://localhost:3306/elasticsearch"
    jdbc_user => "root"
    jdbc_password => "password"
    schedule => "*" * * * *
    jdbc_validate_connection => true
    jdbc_driver_library => "D:/ElasticSearch/mysql-connector-java-8.0.20.jar"
    jdbc_driver_class => "com.mysql.cj.jdbc.Driver"
    statement => "SELECT id, name, timestamp, datetime, epoch from
logstash_sync"
  }
}
output {
```

```

        stdout { codec => json_lines }
    elasticsearch {
        "index" => "logstash_sync"
        "hosts" => "localhost:9200"
        "document_type" => "data"
        "document_id" => "%{id}"
    }
}

```

### Brief explanation of the .conf file above:

- the jdbc\_connection\_string (line1) => must terminate with the name of your database.
- the jdbc\_driver\_library (line 6)=> the path must point to the jdbc driver that you had downloaded and unzipped before
- statement => “SELECT id, name, timestamp, datetime, epoch from logstash\_sync” (line 8) => is the query on the table of your database.
- in output, index (line 16) => you give the name to the elasticsearch index that will be automatically created when you launch logstash.

### Schema Design:

The screenshot shows the SQLyog Ultimate 64 interface. The left pane displays the database structure for 'elasticsearch' under the 'root@localhost' connection. The 'logstash\_sync' table is selected. The right pane shows the 'Query 1' window with the following schema information:

**Table: logstash\_sync**

**Column Information:**

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
id	int	(NULL)	NO	PRI	(NULL)	auto_increment	select,insert,update,references	
name	varchar(20)	utf8mb4_0900_ai_ci	YES		(NULL)		select,insert,update,references	
timestamp	timestamp	(NULL)	YES		(NULL)		select,insert,update,references	
datetime	datetime	(NULL)	YES		(NULL)		select,insert,update,references	
epoch	bigint	(NULL)	YES		(NULL)		select,insert,update,references	

**Index Information:**

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
logstash_sync	0	PRIMARY	1	id	A		0	(NULL)	(NULL)	BTREE		

**DDL Information:**

```

CREATE TABLE `logstash_sync` (
  `id` int NOT NULL AUTO_INCREMENT,
  `name` varchar(20) DEFAULT NULL,
  `timestamp` timestamp NULL DEFAULT NULL,
  `datetime` datetime DEFAULT NULL,
  `epoch` bigint DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO INCREMENT=2 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

## Download Section:

- 1) Elastic Search -bin/elasticsearch.bat cmd run this es will start running
- 2) Kibana for query - bin/kibana cmd run this
- 3) Logstash for syncing data - D:\ElasticSearch\logstash-7.7.1> .\bin\logstash -f config/logstash\_mysql.conf

## Run ES:

```
C:\Windows\system32\cmd.exe
[2020-06-12T16:22:51.517][INFO][o.e.p.PluginsService][857KUjp] no plugins loaded
[2020-06-12T16:22:56.567][INFO][o.e.x.s.a.s.FileRolesStore][857KUjp] parsed [0] roles from file [D:\ElasticSearch\elasticsearch-6.8.0\config\roles.yml]
[2020-06-12T16:22:57.853][INFO][o.e.x.w.p.l.CppLogMessageHandler][857KUjp] [controller/11620] [Main.cc@109] controller (64 bit): Version 6.8.0 (Build e6cf25e2acc5ec)
Copyright (c) 2019 Elasticsearch BV
[2020-06-12T16:22:58.490][DEBUG][o.e.a.ActionModule][857KUjp] Using REST wrapper from plugin org.elasticsearch.xpack.security.Security
[2020-06-12T16:22:58.748][INFO][o.e.d.DiscoveryModule][857KUjp] using discovery type [zen] and host providers [settings]
[2020-06-12T16:23:00.023][INFO][o.e.n.Node][857KUjp] initialized
[2020-06-12T16:23:00.024][INFO][o.e.n.Node][857KUjp] starting ...
[2020-06-12T16:23:05.614][INFO][o.e.t.TransportService][857KUjp] publish address [127.0.0.1:9300], bound_addresses [127.0.0.1:9300], [:::1]:9300
[2020-06-12T16:23:06.742][INFO][o.e.c.s.MasterService][857KUjp] zen-disco-elected-as-master ([0] nodes joined), reason: new master [857KUjp]{857KUjp1RbWFGf_HndBmIA}{RfC5MKXWQ7SH_8DHEHlMw}[127.0.0.1]{127.0.0.1:9300}[ml.machine_memory=16783716352, xpack.installed=true, ml.max_open_jobs=20, ml.enabled=true]
[2020-06-12T16:23:08.751][INFO][o.e.c.s.ClusterApplierService][857KUjp] new master [857KUjp]{857KUjp1RbWFGf_HndBmIA}{RfC5MKXWQ7SH_8DHEHlMw}[127.0.0.1]{127.0.0.1:9300}[ml.machine_memory=16783716352, xpack.installed=true, ml.max_open_jobs=20, ml.enabled=true], reason: apply cluster state (from master [master {857KUjp}{857KUjp1RbWFGf_HndBmIA}{RfC5MKXWQ7SH_8DHEHlMw}[127.0.0.1]{127.0.0.1:9300}[ml.machine_memory=16783716352, xpack.installed=true, ml.max_open_jobs=20, ml.enabled=true] committed version [1] source [zen-disco-elected-as-master ([0] nodes joined)])
[2020-06-12T16:23:08.863][WARN][o.e.x.s.a.s.m.NativeRoleMappingStore][857KUjp] Failed to clear cache for realms [[]]
[2020-06-12T16:23:08.943][INFO][o.e.g.GatewayService][857KUjp] recovered [0] indices into cluster state
[2020-06-12T16:23:09.206][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.triggered_watches] for index patterns [.triggered_watches*]
[2020-06-12T16:23:09.248][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.watches] for index patterns [.watches*]
[2020-06-12T16:23:09.324][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.watch-history-9] for index patterns [.watcher-history-9*]
[2020-06-12T16:23:09.378][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.monitoring-logstash] for index patterns [.monitoring-logstash-6-*]
[2020-06-12T16:23:09.437][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.monitoring-es] for index patterns [.monitoring-es-6-*]
[2020-06-12T16:23:09.484][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.monitoring-beats] for index patterns [.monitoring-beats-6-*]
[2020-06-12T16:23:09.526][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.monitoring-alerts] for index patterns [.monitoring-alerts-6]
[2020-06-12T16:23:09.560][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.monitoring-kibana] for index patterns [.monitoring-kibana-6-*]
[2020-06-12T16:23:09.784][INFO][o.e.l.LicenseService][857KUjp] license [49a907bc-233a-4df2-b014-1ccd8a1d834e] mode [basic] status [valid]
[2020-06-12T16:23:13.999][INFO][o.e.h.n.HttpServerTransport][857KUjp] publish address [127.0.0.1:9200], bound_addresses [127.0.0.1:9200], [:::1]:9200
[2020-06-12T16:23:13.999][INFO][o.e.n.Node][857KUjp] started
[2020-06-12T16:27:05.460][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.management-beats] for index patterns [.management-beats]
[2020-06-12T16:27:18.176][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [.kibana_task_manager] for index patterns [.kibana_task_manager]
[2020-06-12T16:27:18.252][INFO][o.e.c.m.MetaDataCreateIndexService][857KUjp] [.kibana_task_manager] creating index, cause [auto(bulk api)], templates [.kibana_task_manager], shards [1]/[1], mappings [_doc]
[2020-06-12T16:27:18.267][INFO][o.e.c.r.a.AllocationService][857KUjp] updating number_of_replicas to [0] for indices [.kibana_task_manager]
[2020-06-12T16:27:18.719][INFO][o.e.c.r.a.AllocationService][857KUjp] Cluster health status changed from [YELLOW] to [GREEN] (reason: [shards started [[.kibana_task_manager] 0]]).
[2020-06-12T16:27:19.383][INFO][o.e.c.m.MetaDataCreateIndexService][857KUjp] [.kibana_1] creating index, cause [api], templates [1]/[1], mappings [doc]
[2020-06-12T16:27:19.385][INFO][o.e.c.r.a.AllocationService][857KUjp] updating number_of_replicas to [0] for indices [.kibana_1]
[2020-06-12T16:27:19.591][INFO][o.e.c.r.a.AllocationService][857KUjp] Cluster health status changed from [YELLOW] to [GREEN] (reason: [shards started [[.kibana_1] 0]]).
[2020-06-12T16:27:19.750][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [kibana_index_template:kibana] for index patterns [.kibana]
[2020-06-12T16:27:19.790][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [kibana_index_template:kibana] for index patterns [.kibana]
[2020-06-12T16:27:19.813][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [kibana_index_template:kibana] for index patterns [.kibana]
[2020-06-12T16:29:05.343][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [kibana_index_template:kibana] for index patterns [.kibana]
[2020-06-12T17:22:57.162][INFO][o.e.c.m.MetaDataIndexTemplateService][857KUjp] adding template [logstash] for index patterns [logstash-*]
```

## Run Kibana:

```
C:\Windows\system32\cmd.exe
log [10:57:02.849] [info][status][plugin:console_extensions@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:02.855] [info][status][plugin:notifications@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:02.860] [info][status][plugin:index_lifecycle_management@6.8.0] Status changed from uninitialized to yellow - Waiting for Elasticsearch
log [10:57:02.845] [info][status][plugin:infra@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:02.953] [info][status][plugin:rollup@6.8.0] Status changed from uninitialized to yellow - Waiting for Elasticsearch
log [10:57:02.969] [info][status][plugin:remote_clusters@6.8.0] Status changed from uninitialized to yellow - Waiting for Elasticsearch
log [10:57:02.980] [info][status][plugin:cross_cluster_replication@6.8.0] Status changed from uninitialized to yellow - Waiting for Elasticsearch
log [10:57:02.999] [info][status][plugin:translations@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:03.027] [info][status][plugin:upgrade_assistant@6.8.0] Status changed from uninitialized to green - Ready log [10:57:03.068] [info][status][plugin:uptime@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:03.078] [info][status][plugin:oss_telemetry@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:03.110] [info][status][plugin:metrics@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:03.452] [info][status][plugin:timelion@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:05.420] [info][status][plugin:elasticsearch@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.596] [info][license][xpack] Imported license information from Elasticsearch for the [data] cluster: mode: basic | status: active
log [10:57:05.608] [info][status][plugin:xpack_main@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.610] [info][status][plugin:graph@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.614] [info][status][plugin:searchprofiler@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.615] [info][status][plugin:ml@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.618] [info][status][plugin:tilemap@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.620] [info][status][plugin:watches@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.621] [info][status][plugin:grokdebugger@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.623] [info][status][plugin:logstash@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.624] [info][status][plugin:beats_management@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.630] [info][status][plugin:index_management@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.633] [info][status][plugin:index_lifecycle_management@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.636] [info][status][plugin:rollup@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.639] [info][status][plugin:remote_clusters@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.641] [info][status][plugin:cross_cluster_replication@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.643] [info][kibana-monitoring][monitoring-ui] Starting monitoring stats collection
log [10:57:05.678] [info][status][plugin:security@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.683] [info][status][plugin:maps@6.8.0] Status changed from yellow to green - Ready
log [10:57:05.853] [info][license][xpack] Imported license information from Elasticsearch for the [monitoring] cluster: mode: basic | status: active
log [10:57:08.890] [warning][reporting] Generating a random key for xpack.reporting.encryptionKey. To prevent pending reports from failing on restart, please set xpack.reporting.encryptionKey in kibana.yml
log [10:57:18.065] [info][status][plugin:reporting@6.8.0] Status changed from uninitialized to green - Ready
log [10:57:18.150] [info][task manager] Installing kibana task manager index template version: 6080099
log [10:57:18.210] [info][task manager] Installed kibana_task_manager index template: version 6080099 (API version 1)
log [10:57:19.338] [info][migrations] Creating index .kibana_1.
log [10:57:19.611] [info][migrations] Pointing alias .kibana to .kibana_1.
log [10:57:19.674] [info][migrations] Finished in 336ms.
log [10:57:19.678] [info][listening] Server running at http://localhost:5601
log [10:57:20.470] [info][status][plugin:spaces@6.8.0] Status changed from yellow to green - Ready
```



## Run logstash:

Local Disk (D:) > ElasticSearch

Name	Date modified	Type	Size
elasticsearch-6.8.0	12-06-2020 16:22	File folder	
kibana-6.8.0-windows-x86_64	12-06-2020 16:25	File folder	
logstash-7.7.1	12-06-2020 17:02	File folder	
mysql-connector-java-5.1.49	20-04-2020 05:10	File folder	
mysql-connector-java-8.0.20	09-03-2020 11:19	File folder	
elasticsearch-6.8.0	12-06-2020 16:21	Compressed (zipp...	1,45,152 KB
kibana-6.8.0-windows-x86_64	12-06-2020 16:23	Compressed (zipp...	2,01,623 KB
logstash-7.7.1	12-06-2020 16:27	Compressed (zipp...	1,69,174 KB
mysql-connector-java-5.1.49	20-04-2020 05:10	Executable Jar File	984 KB
mysql-connector-java-5.1.49	12-06-2020 16:35	Compressed (zipp...	3,635 KB
mysql-connector-java-8.0.20	09-03-2020 11:19	Executable Jar File	2,330 KB
mysql-connector-java-8.0.20	12-06-2020 17:05	Compressed (zipp...	4,584 KB

Local Disk (D:) > ElasticSearch > logstash-7.7.1

Name	Date modified	Type	Size
bin	12-06-2020 16:29	File folder	
config	12-06-2020 16:59	File folder	
data	12-06-2020 17:02	File folder	
lib	12-06-2020 16:29	File folder	
logs	12-06-2020 17:02	File folder	
logstash-core	12-06-2020 16:29	File folder	
logstash-core-plugin-api	12-06-2020 16:29	File folder	
modules	12-06-2020 16:29	File folder	
tools	12-06-2020 16:29	File folder	
vendor	12-06-2020 16:29	File folder	
x-pack	12-06-2020 16:29	File folder	
CONTRIBUTORS	28-05-2020 18:44	File	3 KB
Gemfile	28-05-2020 18:44	File	4 KB
Gemfile.lock	28-05-2020 18:44	LOCK File	23 KB
LICENSE	28-05-2020 18:44	Text Document	14 KB
NOTICE	28-05-2020 18:44	Text Document	587 KB

view

> Local Disk (D:) > ElasticSearch > logstash-7.7.1 > config

Name	Date modified	Type	Size
jvm.options	28-05-2020 18:44	OPTIONS File	2 KB
log4j2.properties	28-05-2020 18:44	PROPERTIES File	9 KB
logstash.yml	28-05-2020 18:44	YML File	10 KB
logstash_mysql.conf	12-06-2020 17:22	CONF File	1 KB
logstash-sample.conf	28-05-2020 18:44	CONF File	1 KB
pipelines.yml	28-05-2020 18:44	YML File	4 KB
startup.options	28-05-2020 18:44	OPTIONS File	2 KB

## PowerShell:

```
PS D:\ElasticSearch\logstash-7.7.1> .\bin\logstash -f config\logstash_mysql.conf
Sending Logstash logs to D:\ElasticSearch\logstash-7.7.1\logs which is now configured via log4j2.properties
[2020-06-12T17:22:58.106][WARN ][logstash.config.source.multilocal] Ignoring the 'pipelines.yml' file because modules or command line options are specified
[2020-06-12T17:22:58.335][INFO ][logstash.runner] Starting Logstash {"logstash.version":"7.7.1"}
[2020-06-12T17:22:54.031][INFO ][org.reflections.Reflections] Reflections took 89 ms to scan 1 urls, producing 21 keys and 41 values
[2020-06-12T17:22:54.951][WARN ][logstash.outputs.elasticsearch] You are using a deprecated config setting "document_type" set in elasticsearch. Deprecated settings will continue to work, but are scheduled for removal from logstash in the future. Document types are being deprecated in Elasticsearch 6.0, and removed entirely in 7.0. You should avoid this feature if you have any queries about this, please visit the logstash channel on freenode irc. ({:name=>"document_type", :plugin=>"logstash-outputs::elasticsearch::logstash_sync", :id=>"1a08f955065f2c7c7c1390601802f074209d95a010e5b7a2e9f785481ead6", :document_id=>"%{id}", :hosts=>"[localhost:9200]", :document_type=>"data", :enable_metric=>true, :codec=>"logstash::codec::plain", :id=>"plain_c3c01e0a-680e-49cb-b399-71aa99b0e64", :enable_metric=>true, :charset=>"UTF-8", :workers=>1, :manage_template=>true, :template_name=>"logstash", :template_overwrite=>false, :doc_as_upsert=>false, :script_type=>"inline", :script_lang=>"painless", :script_var_name=>"event", :scripted_upsert=>false, :retry_initial_interval=>2, :retry_max_interval=>64, :retry_on_conflict=>1, :ilm_enabled=>"auto", :ilm_rollover_alias=>"logstash", :ilm_patterns=>"now/d-000001", :ilm_policy=>"logstash-policy", :actions=>"index", :ssl_certificate_verification=>true, :sniffing=>false, :sniffing_delay=>5, :timeout=>60, :pool_max=>100, :pool_max_per_route=>100, :resurrect_delay=>5, :validate_after_inactivity=>10000, :http_compression=>false})
[2020-06-12T17:22:55.939][INFO ][logstash.outputs.elasticsearch][main] Elasticsearch pool URLs updated {:changes=>{:removed=>[], :added=>[http://localhost:9200/]}}
[2020-06-12T17:22:56.480][WARN ][logstash.outputs.elasticsearch][main] Restored connection to ES instance {:url=>"http://localhost:9200/"})
[2020-06-12T17:22:56.613][INFO ][logstash.outputs.elasticsearch][main] ES Output version determined ({:es_version=>6})
[2020-06-12T17:22:56.627][WARN ][logstash.outputs.elasticsearch][main] Detected a 6.x and above cluster: the 'type' event field won't be used to determine the document_type ({:es_version=>6})
[2020-06-12T17:22:56.801][INFO ][logstash.outputs.elasticsearch][main] New Elasticsearch output {:class=>"Logstash::Outputs::ElasticSearch", :hosts=>["localhost:9200"]}
[2020-06-12T17:22:56.913][INFO ][logstash.outputs.elasticsearch][main] Using default mapping template
[2020-06-12T17:22:56.969][INFO ][logstash.outputs.elasticsearch][main] Index Lifecycle Management is set to 'auto', but will be disabled - Your Elasticsearch cluster is before 7.0.0, which is the minimum version required to automatically run Index Lifecycle Management
[2020-06-12T17:22:56.977][INFO ][logstash.outputs.elasticsearch][main] Attempting to install template (:manage_template=>{"template">"logstash-*", "version">60001, "settings">{"index.refresh_interval">"5s"}, "mappings">{"default">{"dynamic_templates">[{"message_field">{"path_match">"message", "match_mapping_type">"string", "mapping">{"type">"text", "norms">false}}], ("string_fields">{"type">"string", "mapping">{"type">"text", "norms">false, "fields">{"keyword">{"type">"keyword", "ignore_above">256}}}]}, "properties">{"@timestamp">{"type">"date", "@version">{"type">"keyword"}, "geoip">{"dynamic">true, "properties">{"ip">{"type">"ip"}, "location">{"type">"geo_point"}, "latitude">{"type">"half_float"}, "longitude">{"type">"half_float"}}}}})
[2020-06-12T17:22:57.033][INFO ][logstash.outputs.elasticsearch][main] Installing elasticsearch template to :template/logstash
[2020-06-12T17:22:57.051][WARN ][org.logstash.instrument.metrics.gauge.LazyDelegatingGauge][main] A gauge metric of an unknown type (org.jruby.specialized.RubyArrayOneObject) has been created for key: cluster_uuids. This may result in invalid serialization. It is recommended to log an issue to the responsible developer/development team.
[2020-06-12T17:22:57.064][INFO ][logstash.javapipeline] [main] Starting pipeline ({:pipeline_id=>"main", :pipeline_workers=>8, :pipeline_batch_size=>125, :pipeline_batch_delay=>50, :pipeline_max_inflight=>1000, :pipeline_sources=>["D:/ElasticSearch/logstash-7.7.1/config/logstash_mysql.conf"], :thread=>#<Thread:0x707ff134 run>})
[2020-06-12T17:22:59.112][INFO ][logstash.javapipeline] [main] Pipeline started ({:pipeline_id=>"main"})
[2020-06-12T17:22:59.250][INFO ][logstash.agent] [main] Pipelines running {:count=>1, :running_pipelines=>[:main], :non_running_pipelines=>[]}
[2020-06-12T17:22:59.867][INFO ][logstash.agent] Successfully started Logstash API endpoint {:port=>9600}
D:/ElasticSearch/logstash-7.7.1/vendor/bundle/ruby/2.5.0/gems/rufus-scheduler-3.0.9/lib/rufus/scheduler/cronline.rb:77: warning: constant ::Fixnum is deprecated
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is generally unnecessary.
[2020-06-12T17:24:02.336][INFO ][logstash.inputs.jdbc] [main][6b7d844c18212e98f508539258e752ab4f57e462abaeaa2657797f993e3a7e8] (0.004900s) SELECT id, name, timestamp, datetime, epoch from logstash_sync
{"timestamp":"2020-06-10T11:11:34.000Z","id":"1","@timestamp":"2020-06-12T11:54:02.451Z","epoch":"1518844640398","@version":"1","name":"Satish","datetime":"2020-06-14T11:11:41.000Z"}
[2020-06-12T17:25:00.388][INFO ][logstash.inputs.jdbc] [main][6b7d844c18212e98f508539258e752ab4f57e462abaeaa2657797f993e3a7e8] (0.001848s) SELECT id, name, timestamp, datetime, epoch from logstash_sync
{"timestamp":"2020-06-10T11:11:34.000Z","id":"1","@timestamp":"2020-06-12T11:56:00.475Z","epoch":"1518844640398","@version":"1","name":"Satish","datetime":"2020-06-14T11:11:41.000Z"}
[2020-06-12T17:27:00.413][INFO ][logstash.inputs.jdbc] [main][6b7d844c18212e98f508539258e752ab4f57e462abaeaa2657797f993e3a7e8] (0.001281s) SELECT id, name, timestamp, datetime, epoch from logstash_sync
{"timestamp":"2020-06-10T11:11:34.000Z","id":"1","@timestamp":"2020-06-12T11:57:00.423Z","epoch":"1518844640398","@version":"1","name":"Satish","datetime":"2020-06-14T11:11:41.000Z"}
[2020-06-12T17:28:00.116][INFO ][logstash.inputs.jdbc] [main][6b7d844c18212e98f508539258e752ab4f57e462abaeaa2657797f993e3a7e8] (0.001767s) SELECT id, name, timestamp, datetime, epoch from logstash_sync
```

## Output:

The screenshot shows the Kibana interface with the Dev Tools console open. The console displays a search query and its results. The query is a GET request to the `logstash_sync/_search` endpoint with a `match_all` query. The results show two hits from the `logstash_sync` index, both of type `data`. The first hit has an ID of 2 and a score of 1.0, with a source object containing timestamp, id, @timestamp, @epoch, @version, name, and datetime. The second hit has an ID of 1 and a score of 1.0, with a similar source object.

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Yes No Press F11 to exit full screen

Dev Tools History Settings Help

Console Search Profiler Grok Debugger

```
1 GET logstash_sync/_search
2 {
3   "query": {
4     "match_all": {}
5   }
6 }
7
8 GET logstash_sync/_search
9 {
10  "query": {
11    "match": {
12      "name": "satish"
13    }
14  }
15 }
```

```
8   "failed" : 0
9 },
10 },
11 "hits" : {
12   "total" : 2,
13   "max_score" : 1.0,
14   "hits" : [
15     {
16       "_index" : "logstash_sync",
17       "_type" : "data",
18       "_id" : "2",
19       "_score" : 1.0,
20       "_source" : {
21         "timestamp" : "2020-06-22T14:30:12.000Z",
22         "id" : 2,
23         "@timestamp" : "2020-06-12T15:38:00.177Z",
24         "@epoch" : 1518844640398,
25         "@version" : "1",
26         "name" : "Aditya",
27         "datetime" : "2020-06-03T14:30:17.000Z"
28       }
29     },
30     {
31       "_index" : "logstash_sync",
32       "_type" : "data",
33       "_id" : "1",
34       "_score" : 1.0,
35       "_source" : {
36         "timestamp" : "2020-06-10T11:11:34.000Z",
37         "id" : 1,
38         "@timestamp" : "2020-06-12T15:38:00.177Z",
39         "@epoch" : 1518844640398,
40         "@version" : "1"
```