

Logstash fingerprint

需求：需要在Logstash ES数据插入的时候，指定document的_ID属性。

Ruby

```
def hi(name)
  puts "Hello world! #{name}!"
end

hi("ww")

def hi(name="world")
  puts "hello #{name.capitalize}"
end

# class
class Greeter
  def initialize(name="world")
    @name=name
  end
  def say_hi
    puts "Hi,#{@name}!"
  end
end

greeter=Greeter.new("pat")
greeter.say_hi

#Using attr_accessor defined two new methods for us, name to get the value, and
name= to set it.
class Greeter
  attr_accessor :name
end
greeter.name="Betty"
greeter.name
```

for.rb

```
#!/usr/bin/env ruby

class MegaGreeter
  attr_accessor :names

  # Create the object
  def initialize(names = "world")
    @names = names
  end
end
```

```

# Say hi to everybody
def say_hi
  if @names.nil?
    puts "..."
  elsif @names.respond_to?("each")
    # @names is a list of some kind, iterate!
    @names.each do |name|
      puts "Hello #{name}!"
    end
  else
    puts "Hello #{@names}!"
  end
end

# Say bye to everybody
def say_bye
  if @names.nil?
    puts "..."
  elsif @names.respond_to?("join")
    # Join the list elements with commas
    puts "Goodbye #{@names.join(", ")}. Come back soon!"
  else
    puts "Goodbye #{@names}. Come back soon!"
  end
end

if __FILE__ == $0
  mg = MegaGreeter.new
  mg.say_hi
  mg.say_bye

  # Change name to be "Zeke"
  mg.names = "Zeke"
  mg.say_hi
  mg.say_bye

  # Change the name to an array of names
  mg.names = ["Albert", "Brenda", "Charles",
              "Dave", "Engelbert"]
  mg.say_hi
  mg.say_bye

  # Change to nil
  mg.names = nil
  mg.say_hi
  mg.say_bye
end

```

没有安装windows下的交互模式（其他系统irb进入）

```
C:\Users\yww08\Desktop>ruby for.rb
```

Logstash

生成plugin模板

```
E:\workspace\logstash-8.5.1>bin\logstash-plugin.bat generate --type filter --
name fingerprint --path ./out
"Using bundled JDK: E:\workspace\logstash-8.5.1\jdk\bin\java.exe"
Creating ./out/logstash-filter-fingerprint
  create logstash-filter-fingerprint/CHANGELOG.md
  create logstash-filter-fingerprint/CONTRIBUTORS
  create logstash-filter-fingerprint/DEVELOPER.md
  create logstash-filter-fingerprint/docs/index.asciidoc
  create logstash-filter-fingerprint/Gemfile
  create logstash-filter-fingerprint/lib/logstash/filters/fingerprint.rb
  create logstash-filter-fingerprint/LICENSE
  create logstash-filter-fingerprint/logstash-filter-fingerprint.gemspec
  create logstash-filter-fingerprint/Rakefile
  create logstash-filter-fingerprint/README.md
  create logstash-filter-fingerprint/spec/filters/fingerprint_spec.rb
  create logstash-filter-fingerprint/spec/spec_helper.rb
```

```
input {
  kafka{
    bootstrap_servers => "${ANXIN_KAFKA_BROKERS:localhost:9092}"
    topics => ["anxinyun_theme"]
    group_id => "anxin-logstash-themes-consumer"
    consumer_threads => 5
    codec => json {
      charset => "UTF-8"
    }
  }
}

filter {
  mutate {
    rename => {"acqTime" => "collect_time"}
    rename => {"@timestamp" => "create_time"}
    add_field => {
      "sensor" => "%{[station][id]}"
    }
    add_field => {
      "sensor_name" => "%{[station][name]}"
    }
    add_field => {
      "factor" => "%{[station][factor][id]}"
    }
    add_field => {
      "factor_name" => "%{[station][factor][name]}"
    }
    add_field => {
      "structure" => "%{[station][structure][id]}"
    }
    add_field => {
      "factor_proto_code" => "%{[station][factor][protoCode]}"
    }
  }
}
```

```

    }
    add_field => {
      "factor_proto_name" => "%{[station][factor][protoName]}"
    }
    remove_field => ["station", "@version", "@timestamp", "taskId",
"deviceDatas", "state", "dataEmpty", "rawAgg"]
  }

  fingerprint {
    method => "UUIDIOTA"
    source => ["sensor", "collect_time"]
    target => "[%{[metadata][id]}"
  }
}

output {
  stdout {
    codec => json_lines
  }
  elasticsearch {
    hosts => ["${ANXIN_ELASTICSEARCH_NODES:localhost:9200}"]
    index => "${ANXIN_ELASTICSEARCH_INDEX:anxinyun_themes}"
    flush_size => 100
    sniffing => true
    document_id => "%{[metadata][id]}"
  }
}

```

替换fingerprint.rb文件

```

logstash-8.5.1\vendor\bundle\jruby\2.6.0\gems\logstash-filter-fingerprint-
3.4.1\lib\logstash\filters

```

Running On Windows:

```

set ANXIN_KAFKA_BROKERS=10.8.30.72:29092
set ANXIN_ELASTICSEARCH_NODES=10.8.30.60:9200
.\bin\logstash.bat -f .\config\logstash.conf

```