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MAY 17, 2023

# DevOps Classroomnotes 17/May/2023

## Logstash

• Lets create a linux vm and explore logstash

#### Logstash pipeline:

Logstash pipeline syntax

```
input {}
filter {}
output {}
```

- In input section we can define the datasources from where we process inputs Extract
- In Filter section we define the transformations Transform
- In output section we define the destination Load
- The list of inputs is all the installed logstash input plugins and same with other sections

#### Lets create a very basic pipeline which reads input from stdin and displays out to stdout

- Stdin input plugin Refer Here
- Stdout output plugin Refer Here
- Pipeline

```
input {
    stdin {
    }
}
output {
    stdout {
    }
}
```

- Create a file with above content in /tmp/first.conf
- cd in /usr/share/logstash and execute the following command sudo ./bin/logstash -f

```
/tmp/first.conf
ipelines running {:count=>1, :running_pipelines=>[:main], :non_running_pipelines=>[]}

this is my first input
{
        "host" => {
             "hostname" => "ip-172-31-8-162"
        },
        "@version" => "1",
            "message" => "this is my first input",
        "@timestamp" => 2023-05-17T03:01:51.185072690Z,
            "event" => {
                  "original" => "this is my first input"
        }
}
```

- Now lets the codec from rubydebug to json
- Edit first.conf with following content and start logstash sudo ./bin/logstash -f /tmp/first.conf

```
input {
    stdin {
    }
}
output {
    stdout {
        codec => json
    }
}
```

```
tines=>[:main], :non_running_pipelines=>[]}
this is my first message
{"event":{"original":"this is my first message"},"host":{"hostname":"ip-172-31-8-162"},"@version":
"1","message":"this is my first message", "@timestamp":"2023-05-17T03:06:03.596463408Z"}
```

- \* Lets add one more output to some file `stdout => codec => rubydebug
- \* Refer Here for file output plugin

```
The stdin plugin is now maiting for input:
[INFO] 2023-05-17 03:12:47.741 [Agent thread] agent - Pipelines running {:count=>1, :running_pipelines=>[:main], :non_running_pipelines=>[:main], :non_runn
```

\* Open the file for contents

```
ubuntu@ip-172-31-8-162:/usr/share/logstash$ cat /tmp/output2023-05-17.txt
{"host":{"hostname":"ip-172-31-8-162"},"message":"this is my first message","@version":"
","event":{"original":"this is my first message"},"@timestamp":"2023-05-17T03:13:00.0229'
4124Z"}
{"host":{"hostname":"ip-172-31-8-162"},"message":"hello, how are you?","@version":"1","ent":{"original":"hello, how are you?"},"@timestamp":"2023-05-17T03:13:12.546796332Z"}
ubuntu@ip-172-31-8-162:/usr/share/logstash$
```

Activity 2: Lets create a pipeline to read the file /tmp/test and display the contents in stdout

- input = file
- output = stdout

```
input {
    file {
        path => ["/tmp/test"]
    }
}
output {
    stdout {
    }
}
```

• install apache and redirect /var/log/apache2/access.log to stdout

```
input {
    file {
        path => ["/var/log/apache2/access.log"]
    }
} output {
    stdout {
    }
}
```

- Lets try to understand filters.
- Grok filter can parse unstructured data into fields Refer Here

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