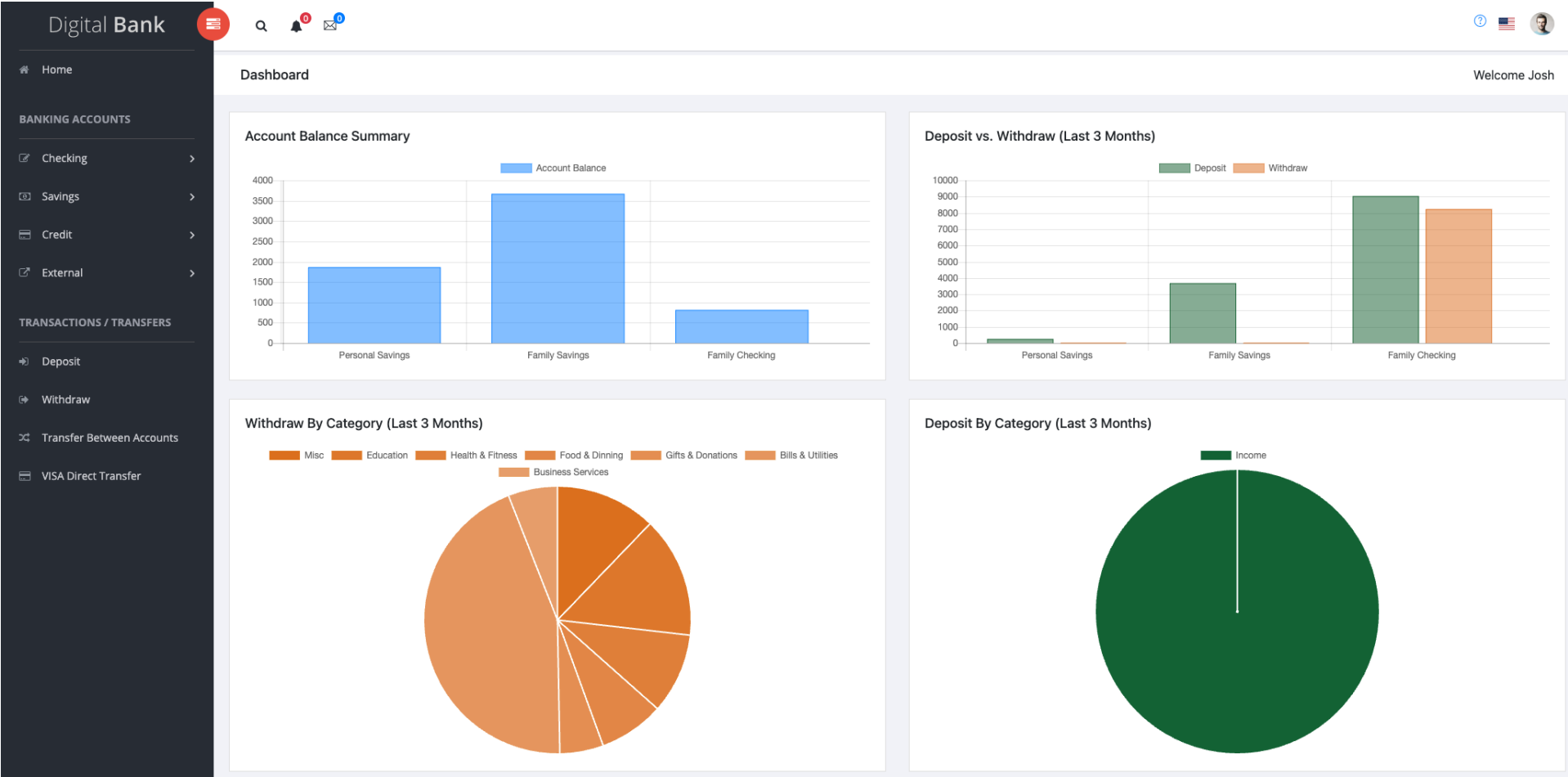
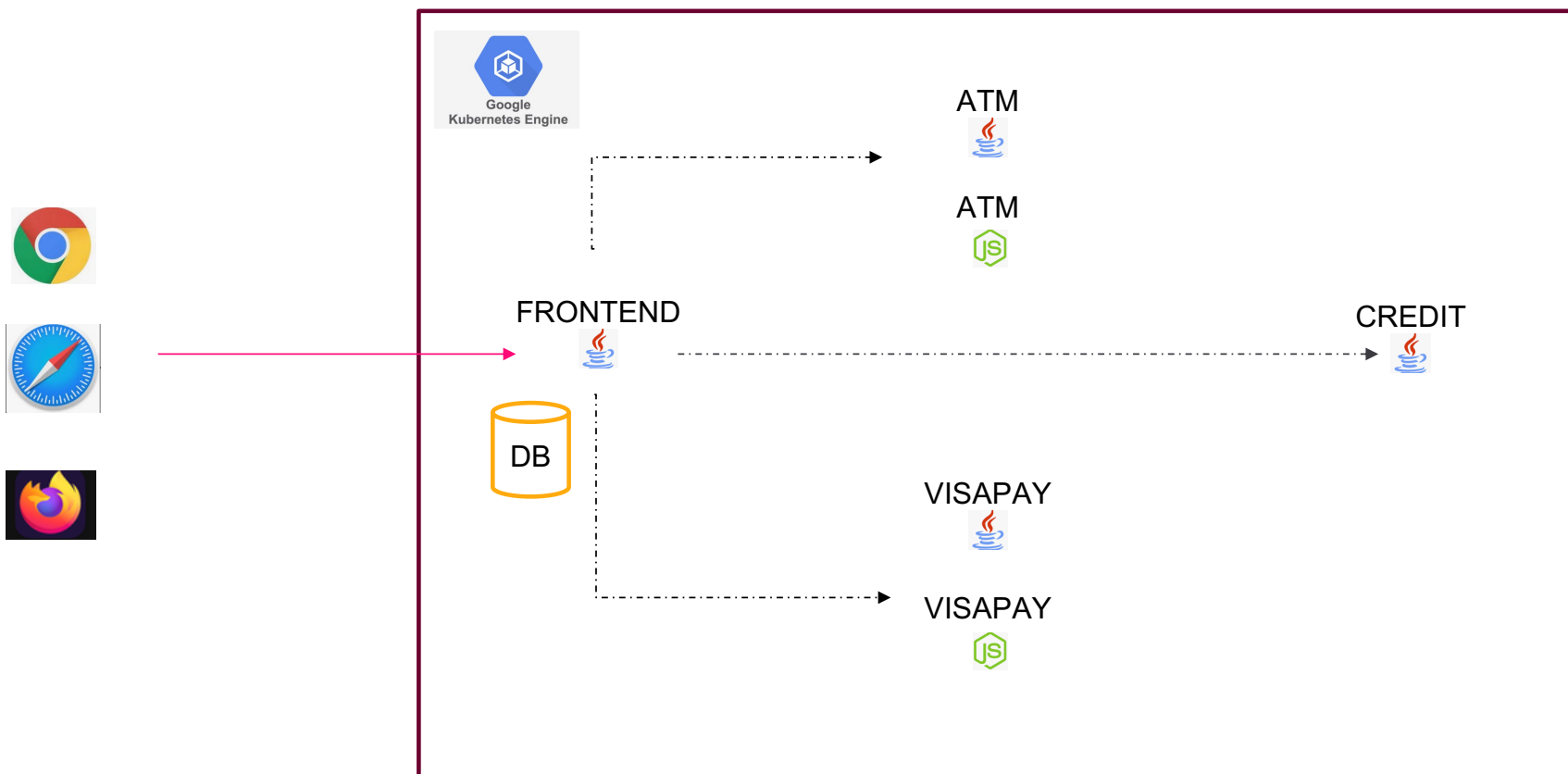


Exemplo Digibank Splunk Observability Cloud





Fazendo ao vivo.

1 - GCP

2- K8s

3 - RUM

4 – Java e Node

Teste agora!





Comunidade CISCO



Splunk - WORKSHOPS EM PORTUGUES



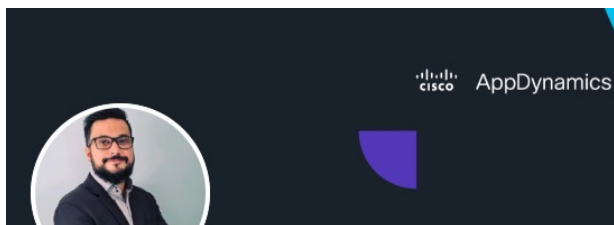
Digibank – Splunk Observability Repo




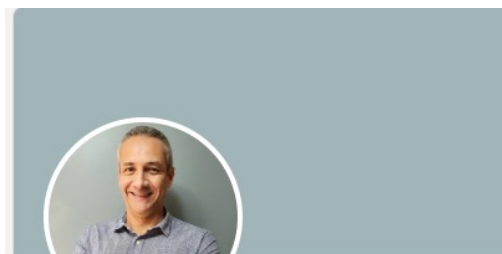
Splunk - DICAS

Referências

splunk>




Raphael Gomes  · 1st
AI | Digital Transformation | Observability | Sales Engineer
São Caetano do Sul, São Paulo, Brazil · [Contact info](#)



Leandro Ferreira 
Advisory Sales Engineer - AppDynamics at Cisco



Backup

Data Management
Available integrations

Deployed integrationsAvailable integrationsData tools

Available integrations

By use case ▼Monitor infrastructureMonitor applicationsMonitor user experience

Get Started with OpenTelemetry


RECOMMENDED


Deploy the Splunk OpenTelemetry Collector to Linux, Windows, and Kubernetes to send infrastructure data to Splunk Observability Cloud.


- [Learn more about Splunk's commitment to Open Standards for observability](#)
- [Learn more about the Splunk OpenTelemetry Collector](#)

Deploy the Splunk OpenTelemetry Collector

Cloud Integrations

**Amazon Web Services**
Provides metrics.

**Google Cloud Platform**
Provides metrics.

**Microsoft Azure**
Provides metrics.

splunk>

Data Management

Google Cloud Platform

GOOGLE CLOUD PLATFORM

Use Splunk Infrastructure Monitoring to monitor with Google Cloud Platform via Google Cloud Operations. [Learn more](#)

Name	Created by	Created	Last modified by	Last modified
▼ ledeoliv-gcp	Leandro Ferreira	06/14/2024	Leandro Ferreira	06/14/2024

Name

ledeoliv-gcp

Projects

Project ID	Actions
gcp-appdlatamse-nprd-21355	Remove

Add Project

Services

Kubernetes (GKE), Compute Engine HTTP(S) Load Balancing

Custom Metric Type Domains

Comma-separated list of Custom Metric Type Domains.

Poll Rate

seconds

☒ Import metadata
☒ Import metrics
☐ Use quota from the project where metrics are stored

splunk>

Data Management

Available integrations

Deployed integrations Available integrations Data tools

Available integrations

All ▾

Get Started with OpenTelemetry RECOMMENDED

Deploy the Splunk OpenTelemetry Collector to Linux, Windows, and Kubernetes to send infrastructure data to Splunk Observability Cloud.

- [Learn more about Splunk's commitment to Open Standards for observability](#)
- [Learn more about the Splunk OpenTelemetry Collector](#)

Deploy the Splunk OpenTelemetry Collector

Integrations
Install new Splunk OpenTelemetry Collector instance

PROGRESS

- ✓ Integration Summary
- 2 Install Configuration
- 3 Installation Instructions
- 4 Review Inventory

Install Configuration

Provide the following details.

Platform	Kubernetes
Add gateway ⓘ	No
Environment ⓘ	digibank
Cluster name ⓘ	digibank-k8s-gcp
Provider ⓘ	Google Cloud Platform
Distribution ⓘ	Google GKE / Standard mode
Log collection ⓘ	No log collection
Autodiscovery ⓘ	<input checked="" type="checkbox"/> Language runtimes for autoinstrumentation <input checked="" type="checkbox"/> Supported third-party applications View application list documentation
Autoinstrumentation ⓘ	<input checked="" type="checkbox"/> .NET (OpenTelemetry) <input checked="" type="checkbox"/> Java <input checked="" type="checkbox"/> Node.js
Cert manager ⓘ	True <small>If cert-manager is deployed, make sure to set it to false.</small>
Profiling ⓘ	True
Splunk access token ⓘ	Default

[Back](#) [Next](#)

Integrations

Install new Splunk OpenTelemetry Collector instance

170 days left in trial

🔍 +

PROGRESS

✓ Integration Summary

✓ Install Configuration

3 Installation Instructions

4 Review Inventory

Installation Instructions

Complete the following steps to deploy the tracing instrumentation to your application.

HELM (Recommended)

A

Make sure that you have installed and configured the Helm 3.0 client.

B

Add the Splunk OpenTelemetry Collector for Kubernetes' Helm chart repository

```
helm repo add splunk-otel-collector-chart https://signalfx.github.io/splunk-otel-collector-chart
```

C

Ensure the latest state of the repository

```
helm repo update
```

D

Install the Splunk OpenTelemetry Collector for Kubernetes with the desired configuration values

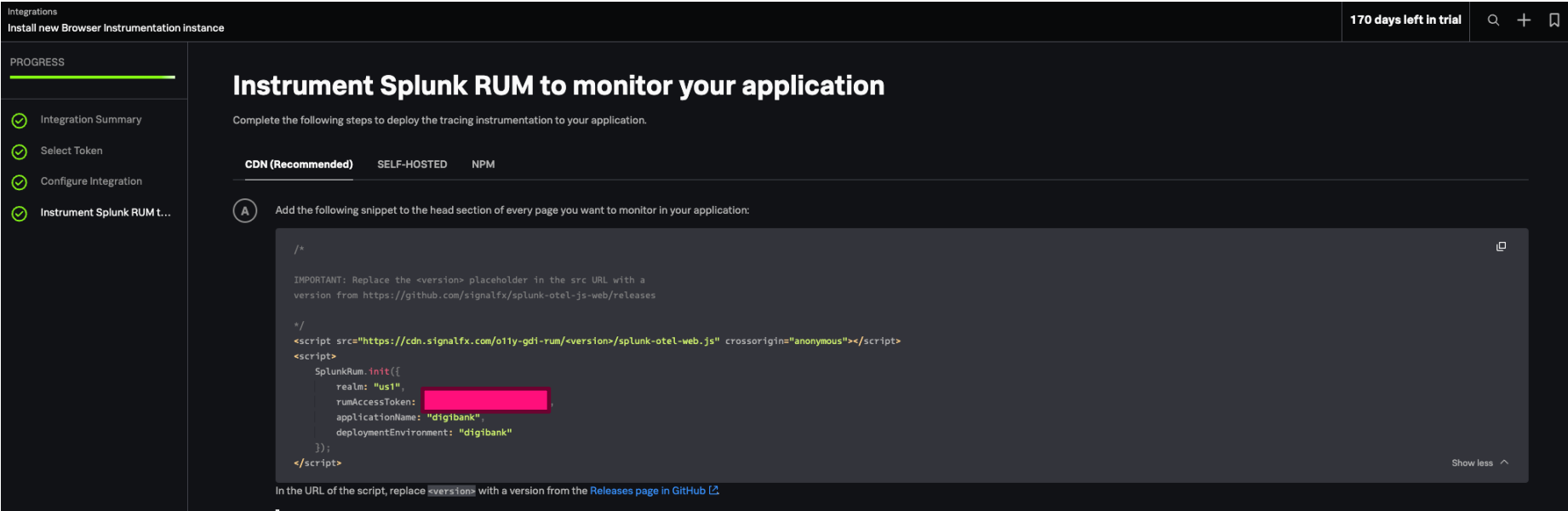
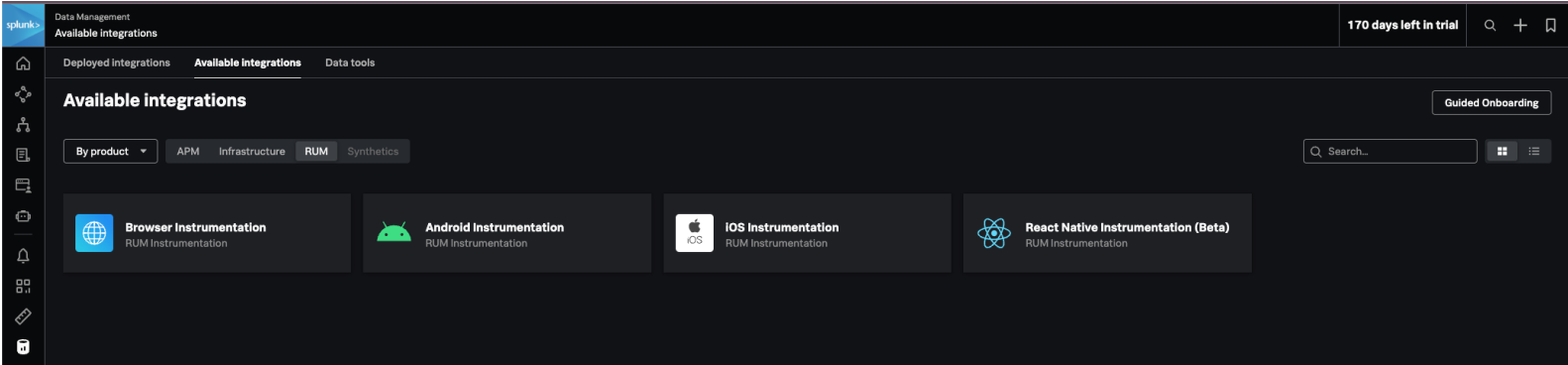
- Check if a cert-manager is already installed by looking for cert-manager pods.

```
kubectl get pods -l app=cert-manager --all-namespaces
```

- If cert-manager is deployed, make sure to remove certmanager.enabled=true from the list of values to set.

```
helm install splunk-otel-collector --set="cloudProvider=gcp,distribution=gke,splunkObservability.accessToken=[REDACTED],splunkObservability.url=https://digibank-k8s-gcp,splunkObservability.realm=us1,gateway.enabled=false,splunkObservability.enabled=true
```

DIGIBANK – Observabilidade - RUM



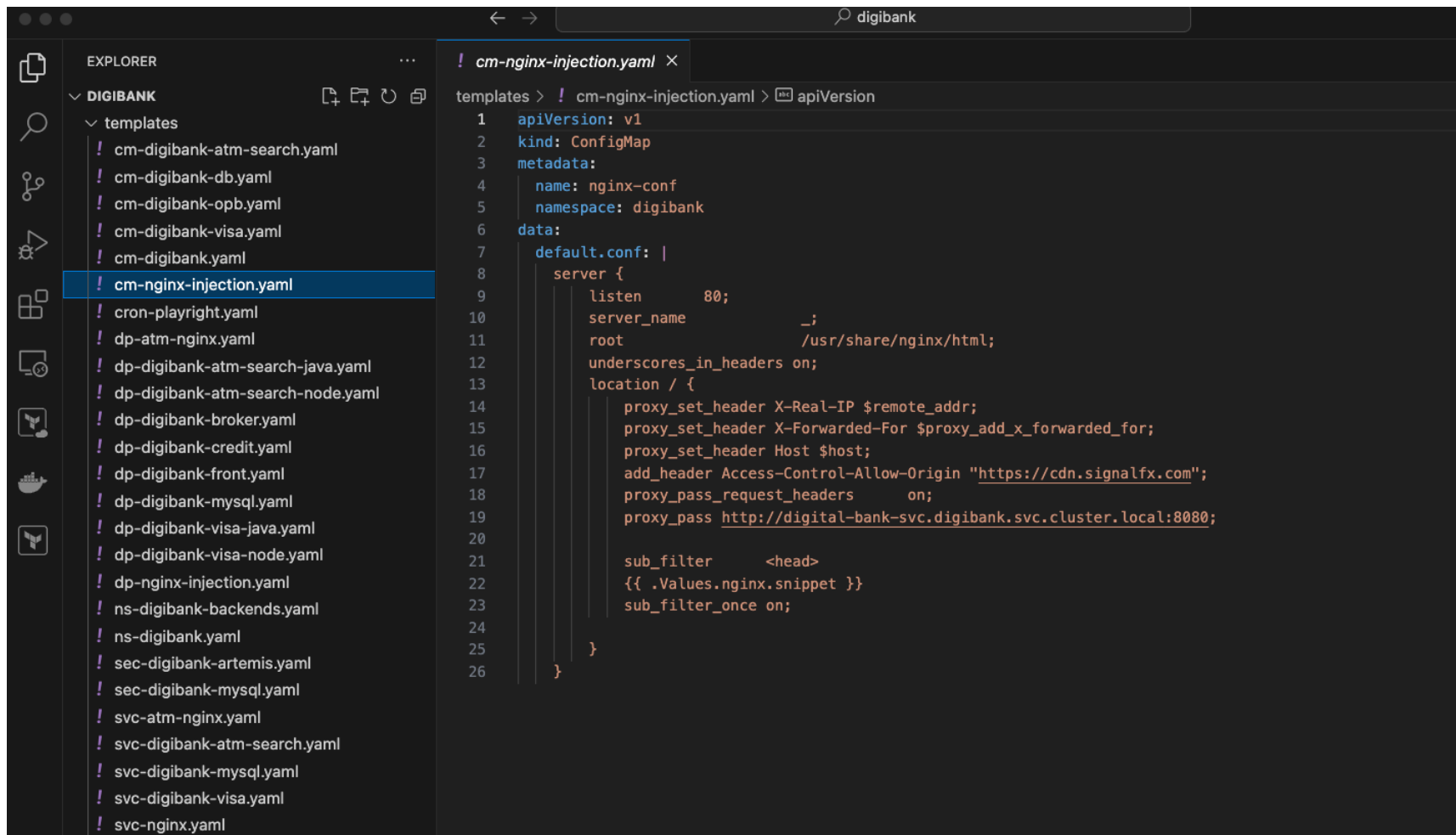
DIGIBANK – Observabilidade RUM

splunk>

```
! values.yaml X
! values.yaml > ...
20 configMap:
54 mysql:
56   SPRING_DATASOURCE_URL: "jdbc:mysql://digital-bank-mysql-svc:3306/digitalbank?useSSL=false&allowPublicKeyRetrieval=true"
57   SPRING_JPA_PROPERTIES_HIBERNATE_DIALECT: "org.hibernate.dialect.MySQL5Dialect"
58
59 image:
60   bank: "leandrovo/digitalbank-new:3.0"
61   credit: "leandrovo/digitalcredit-new:3.0"
62   broker: "leandrovo/digitalbroker-new:3.0"
63   atm: "leandrovo/digitalbank-backend-java:3.0"
64   atm_node: "leandrovo/digitalbank-backend-node:1.0"
65   visa: "leandrovo/digitalbank-backend-java:3.0"
66   visa_node: "leandrovo/digitalbank-backend-node:1.0"
67   tag: ""
68
69 extraConfig:
70   java_options=""
71
72 nginx:
73   snippet: |
74     '<head><script src="https://cdn.signalfx.com/o1ly-gdi-rum/v0.17.0/splunk-otel-web.js" crossorigin="anonymous"></script>'
75
76
```


DIGIBANK – Observabilidade RUM

splunk>



The screenshot shows a code editor interface with a dark theme. On the left, the 'EXPLORER' panel displays a file tree for a project named 'DIGIBANK'. Under the 'templates' folder, several YAML files are listed, with 'cm-nginx-injection.yaml' selected and highlighted in blue. The main editor area shows the content of this file, which is a Kubernetes ConfigMap. The file starts with 'apiVersion: v1' and 'kind: ConfigMap'. The 'metadata' section specifies 'name: nginx-conf' and 'namespace: digibank'. The 'data' section contains a 'default.conf' entry, which is a server configuration for nginx. The configuration includes a 'listen' port of 80, a 'server_name' of '_', and a 'root' directory of '/usr/share/nginx/html'. It also sets various headers like 'X-Real-IP', 'X-Forwarded-For', and 'Host', and configures proxy settings for passing request headers and passing traffic to 'http://digital-bank-svc.digibank.svc.cluster.local:8080'. A sub_filter is also defined for the header.

```
1  apiVersion: v1
2  kind: ConfigMap
3  metadata:
4    name: nginx-conf
5    namespace: digibank
6  data:
7    default.conf: |
8      server {
9        listen      80;
10       server_name  _;
11       root         /usr/share/nginx/html;
12       underscores_in_headers on;
13       location / {
14         proxy_set_header X-Real-IP $remote_addr;
15         proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
16         proxy_set_header Host $host;
17         add_header Access-Control-Allow-Origin "https://cdn.signalfx.com";
18         proxy_pass_request_headers on;
19         proxy_pass http://digital-bank-svc.digibank.svc.cluster.local:8080;
20
21         sub_filter      <head>
22         {{ .Values.nginx.snippet }}
23         sub_filter_once on;
24
25       }
26     }
```

DIGIBANK – Observabilidade Java/Node - Automatica

splunk>

E

Set annotations to activate the automatic instrumentation before runtime.

Deployment-Wide Annotation

Note: If your chart deployment is in a namespace other than `default`, replace `default` in the annotation with the namespace you're using for deployment.

.NET

The following annotation is for .NET linux-x64 runtime applications. For other .NET runtimes, see the [documentation](#).

```
kubectl patch deployment <my-deployment> -n <my-namespace> -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-dotnet":"default/splunk-otel-collector"}}}}}'
```

Java

```
kubectl patch deployment <my-deployment> -n <my-namespace> -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-java":"default/splunk-otel-collector"}}}}}'
```

Node.js

```
kubectl patch deployment <my-deployment> -n <my-namespace> -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-nodejs":"default/splunk-otel-collector"}}}}}'
```

```
$ annotate.sh X
$ annotate.sh
1 echo "patching digibank namespace"
2
3 kubectl patch deployment digital-bank-front -n digibank -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-java":"default/splunk-otel-collector"}}}}}'
4 kubectl patch deployment digital-bank-credit-deployment -n digibank -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-java":"default/splunk-otel-collector"}}}}}'
5
6
7
8 echo "patching digibank-backends namespace"
9
10 kubectl patch deployment digital-bank-backends-atm-java-deployment -n digibank-backends -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-java":"default/splunk-otel-collector"}}}}}'
11 kubectl patch deployment digital-bank-backends-visa-java-deployment -n digibank-backends -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-java":"default/splunk-otel-collector"}}}}}'
12
13 kubectl patch deployment digital-bank-backends-atm-node-deployment -n digibank-backends -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-nodejs":"default/splunk-otel-collector"}}}}}'
14 kubectl patch deployment digital-bank-backends-visa-node-deployment -n digibank-backends -p '{"spec":{"template":{"metadata":{"annotations":{"instrumentation.opentelemetry.io/inject-nodejs":"default/splunk-otel-collector"}}}}}'
15
16
```

DIGIBANK – Observabilidade Java/Node - Automatica

splunk>

digibank	digital-bank-broker-deployment-5cfff9d6c-fn42j	●	1/1	0	Running	6	241	2	1	49	24	10.64.1.36	gke-zeus-default-pool-97010165-knsk	6m47s
digibank	digital-bank-credit-deployment-6c7c6d46d6-zzplq	●	1/1	0	Running	3	368	0	0	75	18	10.64.0.48	gke-zeus-default-pool-97010165-h633	6m48s
digibank	digital-bank-front-79c99fb55b-zmbpd	●	1/1	0	Running	85	522	17	11	106	26	10.64.2.32	gke-zeus-default-pool-97010165-p8mp	6m47s
digibank	digital-bank-mysql	●	1/1	0	Running	8	394	n/a	n/a	n/a	n/a	10.64.1.35	gke-zeus-default-pool-97010165-knsk	6m48s
digibank	nginx-56d9965976-mtcqf	●	1/1	0	Running	2	3	n/a	n/a	n/a	n/a	10.64.3.37	gke-zeus-default-pool-97010165-hv9w	6m48s
digibank	play-28639950-bdnr9	●	1/1	0	Running	0	3	n/a	n/a	n/a	n/a	10.64.3.38	gke-zeus-default-pool-97010165-hv9w	3m8s
digibank-backends	atm-nginx-75596df76b-mh6hg	●	1/1	0	Running	0	3	n/a	n/a	n/a	n/a	10.64.1.38	gke-zeus-default-pool-97010165-knsk	6m47s
digibank-backends	digital-bank-backends-atm-java-deployment-66b7556b9c-rvq8c	●	1/1	0	Running	2	125	0	0	25	6	10.64.3.36	gke-zeus-default-pool-97010165-hv9w	6m47s
digibank-backends	digital-bank-backends-atm-node-deployment-58b9cffffd5-nv59p	●	1/1	0	Running	0	10	n/a	n/a	n/a	n/a	10.64.0.46	gke-zeus-default-pool-97010165-h633	6m47s
digibank-backends	digital-bank-backends-visa-java-deployment-65b9ff97c8-xgwcx	●	1/1	0	Running	2	136	0	0	27	6	10.64.1.37	gke-zeus-default-pool-97010165-knsk	6m47s
digibank-backends	digital-bank-backends-visa-node-deployment-57dc8cccd-5242t	●	1/1	0	Running	0	10	n/a	n/a	n/a	n/a	10.64.0.47	gke-zeus-default-pool-97010165-h633	6m47s

digibank	digital-bank-broker-deployment-5cfff9d6c-fn42j	●	1/1	0	Running	7	241	2	1	49	24	10.64.1.36		
digibank	digital-bank-credit-deployment-9b79b98c5-ktw4m	●	1/1	0	Running	0	0	0	0	0	0	10.64.3.39		
digibank	digital-bank-front-579bfc45cc-q6sdq	●	1/1	0	Running	0	0	0	0	0	0	10.64.0.49		
digibank	digital-bank-mysql	●	1/1	0	Running	6	394	n/a	n/a	n/a	n/a	10.64.1.35		
digibank	nginx-56d9965976-mtcqf	●	1/1	0	Running	0	3	n/a	n/a	n/a	n/a	10.64.3.37		
digibank	play-28639950-bdnr9	●	1/1	0	Running	0	3	n/a	n/a	n/a	n/a	10.64.3.38		
digibank-backends	atm-nginx-75596df76b-mh6hg	●	1/1	0	Running	0	3	n/a	n/a	n/a	n/a	10.64.1.38		
digibank-backends	digital-bank-backends-atm-java-deployment-8fbd5bb6b-gzbpt	●	1/1	0	Running	0	0	0	0	0	0	10.64.2.33		
digibank-backends	digital-bank-backends-atm-node-deployment-58b9cffffd5-nv59p	●	1/1	0	Running	0	10	n/a	n/a	n/a	n/a	10.64.0.46		
digibank-backends	digital-bank-backends-atm-node-deployment-787cb84cf5-qdfv6	●	0/1	0	Init:0/1	0	0	n/a	n/a	n/a	n/a	n/a		
digibank-backends	digital-bank-backends-visa-java-deployment-75fbbdccc9-q45pk	●	1/1Δ	0	RunningΔ	0	0	0	0	0	0	10.64.1.39		
digibank-backends	digital-bank-backends-visa-node-deployment-57dc8cccd-5242t	●	1/1	0	Running	0	10	n/a	n/a	n/a	n/a	10.64.0.47		
digibank-backends	digital-bank-backends-visa-node-deployment-7986f97d4d-qsv4g	●	0/1	0	PodInitializingΔ	0	0	n/a	n/a	n/a	n/a	10.64.2.34		

CPU: 43%

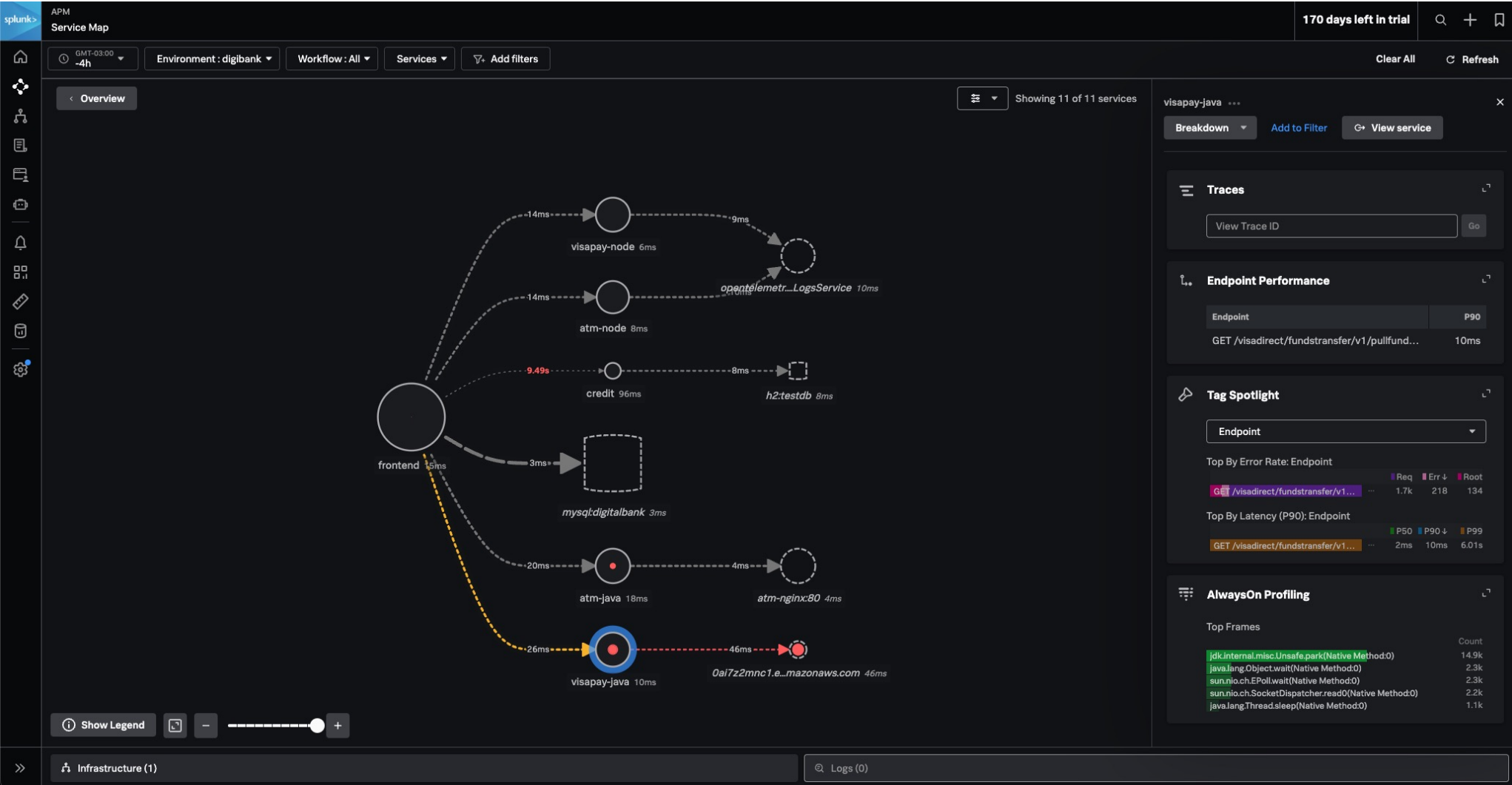
MEM: 40%

<S> Shell

Containers(digibank/digital-bank-front-579bfc45cc-q6sdq)

NAME↑	PF	IMAGE	READY	STATE	INIT	RESTARTS
digital-bank	●	leandrovo/digitalbank-new:3.0	true	Running	false	
opentelemetry-auto-instrumentation-java	●	ghcr.io/signalfx/splunk-otel-java/splunk-otel-java:v1.32.1	true	Completed	true	

Resultado



Obrigado