

09

Consolidando o seu conhecimento

Chegou a hora de você pôr em prática o que foi visto na aula. Para isso, execute os passos listados abaixo.

1) Montar o painel de monitoramento de infraestrutura

- Create > Dashboard > Dashboard Settings
 - Name: Aula 3 - Monitorando o Sistema

2) Criar os painéis:

- Utilização de CPU

Query: InfluxDB

FROM default WHERE host =~ ^\$server\$/ AND cpu = cpu-total

SELECT field (usage_idle) mean () math (* -1 + 100)

GROUP BY time (\$interval) fill (null)

FORMAT AS Time series

ALIAS BY Naming pattern

Visualization: Singlestat

Value

Stat	Average	Font size	80%
Prefix		Font size	50%
Postfix		Font size	50%
Unit	percent (0-100)		
Decimals	auto		

Coloring

Background	Value
Prefix	Postfix
Thresholds 50,80,90	
Colors	Green, Orange, Red, Invert

Spark lines

Show

Gauge

Show	On
Min	0
Max	100
Threshold labels	Off
Threshold markers	On

```
# Instalando a ferramenta para estressar o servidor
$ sudo apt-get update
$ sudo apt-get install stress-ng
# Estressando a CPU do servidor
$ stress-ng -c 0 -l 95
```

- Utilização de FS

Query InfluxDB

▼ A

FROM default disk WHERE host =~ /\$server\$/ AND path = /

SELECT field (used_percent) mean () +

GROUP BY time (\$interval) fill (null) +

FORMAT AS Time series

ALIAS BY Naming pattern

Visualization Bar Gauge ▲ beta

Display

Show Calculation ▾

Calc Mean ▾

Orientation Vertical ▾

Mode Retro LCD ▾

Add value mapping

Field

Title 0 Auto

Unit percent (0-100) ▾

Min 0

Max 100

Decimals 1

Thresholds

90

75

Base

```
# Criando um arquivo grande no servidor
$ dd if=/dev/zero of=arquivo.img bs=1M count=3000
```

- Utilização da memória RAM

Query InfluxDB

▼ B

FROM default mem WHERE host = instance-1 AND path = /

SELECT field (used_percent) mean () +

GROUP BY time (\$__interval) fill (null) +

FORMAT AS Time series

ALIAS BY Naming pattern

Visualization Graph

Draw Modes

Bars	<input checked="" type="checkbox"/>
Lines	<input checked="" type="checkbox"/>
Points	<input checked="" type="checkbox"/>

Mode Options

Fill	1
Line Width	2
Staircase	<input checked="" type="checkbox"/>

Hover tooltip

Mode	All series
Sort order	None

Stacking & Null value

Stack	<input checked="" type="checkbox"/>
Null value	connected

[+ Add series override](#)

Axes

Left Y

Show	<input checked="" type="checkbox"/>		
Unit	short		
Scale	linear		
Y-Min	auto	Y-Max	100
Decimals	1		
Label			

Right Y

Show	<input checked="" type="checkbox"/>		
Unit	short		
Scale	linear		
Y-Min	auto	Y-Max	auto
Decimals	auto		
Label			

X-Axis

Show	<input checked="" type="checkbox"/>
Mode	Time

Y-Axes

Align	<input checked="" type="checkbox"/>
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```
# Estressando a Memória do servidor
```

```
$ stress-ng --vm-bytes $(awk '/MemAvailable/{printf "%d\n", $2 * 0.9;}' < /proc/meminfo)k --vm-keep
```