Article
[Henrique Dias](#) · Aug 20, 2019   2m read

 Open Exchange

Dashboard IRIS History Monitor

Hi, everyone!

I want to share a personal project that started with a simple request at work:

> Is it's possible to know how many Caché licenses we are using?

Reading other articles here in the community, I found this excellent article by [David Loveluck](#)

APM - Using the Caché History Monitor
https://community.intersystems.com/post/apm-using-cach%C3%A9-history-monitor

So, using David's article, I started using Caché History Monitor and to show all that information.

When facing the question: Which cool tech should I use?

My decision was CSP, simple and powerful, so the customer that I'm working for can realize that Caché it's more than just MUMPS/Terminal.

After creating the pages to show the history of Licensing, Database Growth, and CSP Sessions, I've decided to create a new design for the System Dashboard and Processes page.

Everything works great with my Caché instance.

However, how about IRIS?

Following the article by [Evgeny Shvarov](#)

Using Docker with your InterSystems IRIS development repository
https://community.intersystems.com/post/using-docker-your-intersystems-iris-development-repository

I dockerized and put the code on GitHub, so now, everyone can try with a few steps.

How to Run

To start coding with this repo, you do the following:

1. Clone/git pull the [repo](#) into any local directory
$ git clone https://github.com/diashenrique/iris-history-monitor.git

2. Open the terminal in this directory and run:
$ docker-compose build

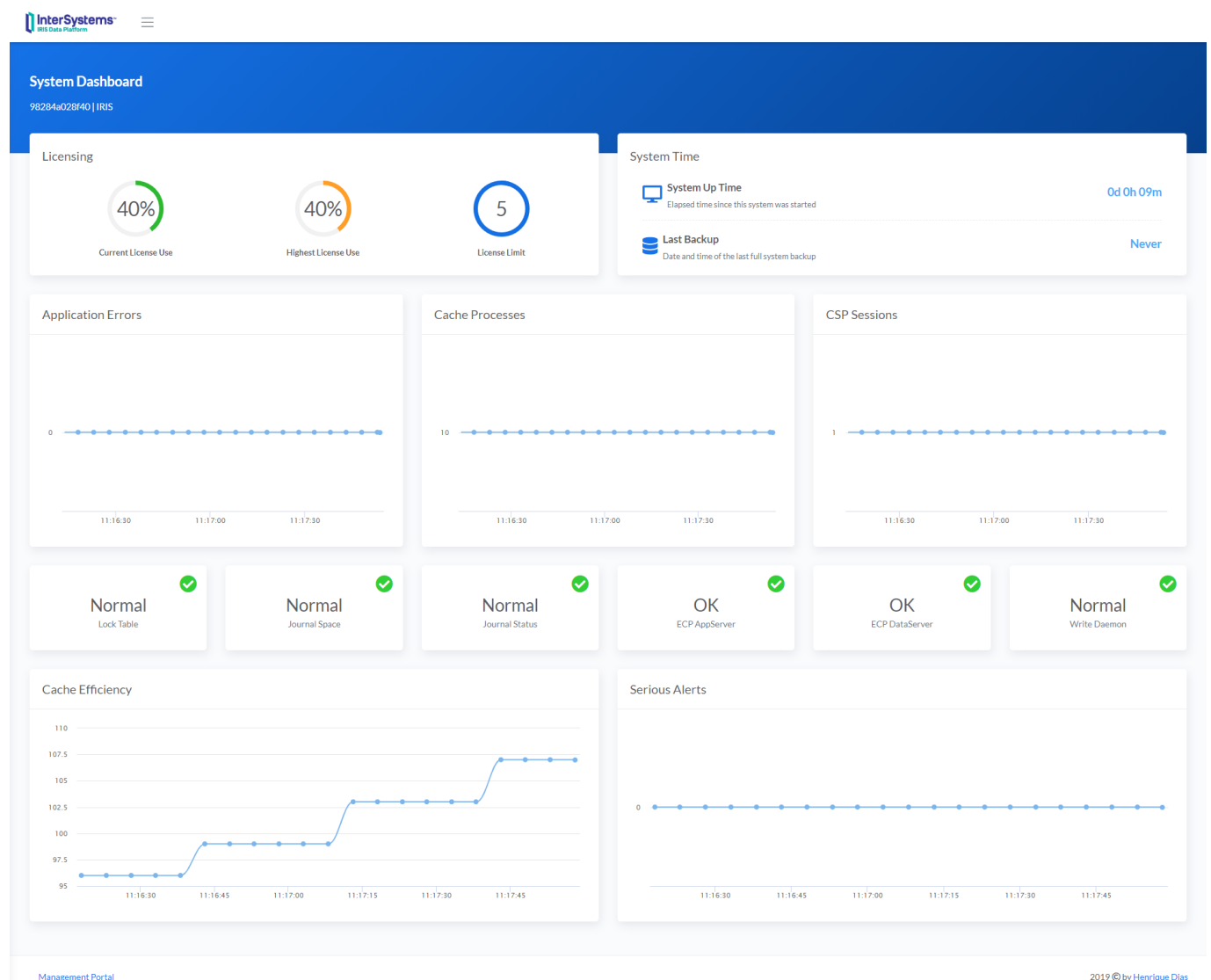3. Run the IRIS container with your project:

$ docker-compose up -d

How to test

Open the browser and go

Ex.: http://localhost:52773/csp/irismonitor/dashboard.csp

The username SYSTEM can run the dashboard and the other features.
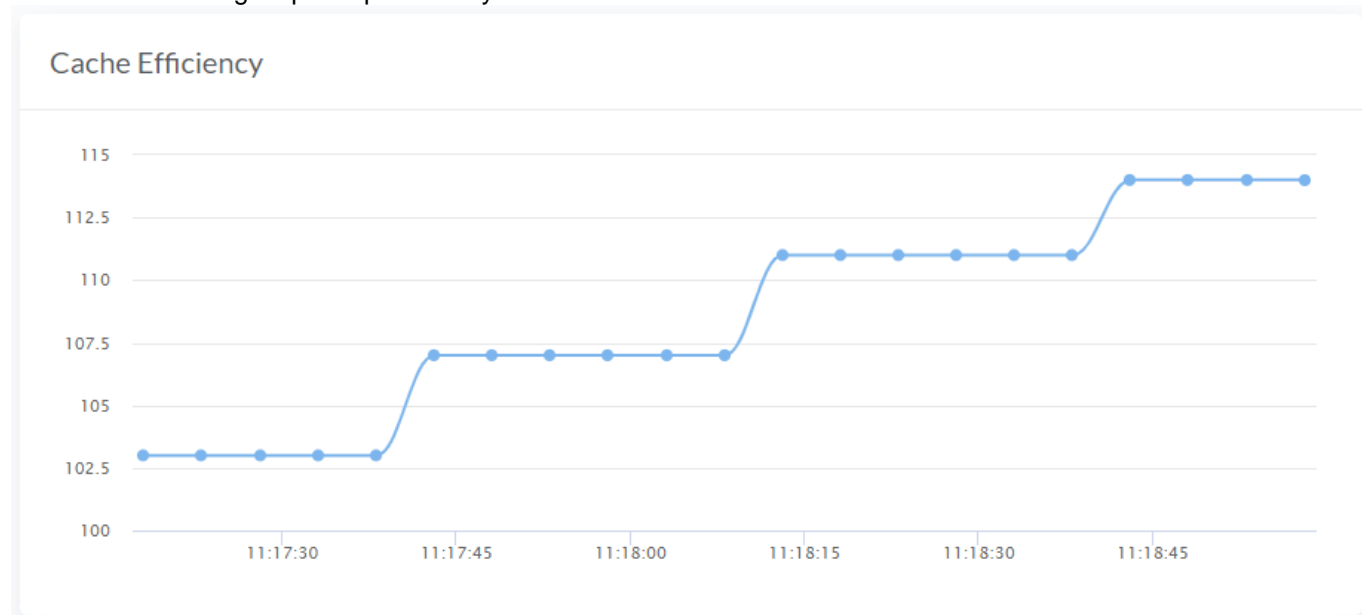
System Dashboard

System Dashboard shows the following items:

- Licensing
- System Time
- Application Errors
- Cache Processes
- CSP Sessions
- Lock Table
- Journal Space

- Journal Status
- ECP AppServer
- ECP DataServer
- Write Daemon
- Cache Efficiency
- Serious Alerts

The line charts widgets plot a point every 5 seconds

System Menu

System Processes

Processes Filters

Use different filters to achieve the result that you need. You can also use Multiple Sorts, pressing Shift + clicking on the column header. And even export the data grid to *Excel!*

| Job #	Pid	Display PID	Username	Device	Nspace	Routine	Commands	Globals	State	Client Name	EXE Name	IP Address	OSUser Name
22	568	568		/dev/null	%SYS	%CSP.Daemon.1	2358	320	HANG				irisusr
23	569	569	CSPSystem	|TCP|irisdev.mshome.net:51773	%SYS	%SYS.cspServer2	540815	88174	READ	irisdev.mshome.net	CSPap.so	172.17.34.65	CSP Gateway
26	574	574	CSPSystem	|TCP|irisdev.mshome.net:51773	%SYS	%SYS.cspServer2	58345	2816	READ	irisdev.mshome.net	CSPap.so	172.17.34.65	CSP Gateway
27	575	575	CSPSystem	|TCP|irisdev.mshome.net:51773	%SYS	%SYS.cspServer2	202555	30319	READ	irisdev.mshome.net	CSPap.so	172.17.34.65	CSP Gateway
28	576	576	CSPSystem	|TCP|irisdev.mshome.net:51773	IRISMONITOR	%SYS.cspServer2	505112	88302	READ	irisdev.mshome.net	CSPap.so	172.17.34.65	CSP Gateway
29	577	577	CSPSystem	|TCP|irisdev.mshome.net:51773	IRISMONITOR	%SYS.cspServer2	6092	225	READ	irisdev.mshome.net	CSPap.so	172.17.34.65	CSP Gateway
31	861	861	CSPSystem	|TCP|irisdev.mshome.net:51773	%SYS	%SYS.cspServer2	11351	417	READ	irisdev.mshome.net	CSPap.so	172.17.34.65	CSP Gateway
32	862	862	CSPSystem	|TCP|irisdev.mshome.net:51773	%SYS	%SYS.cspServer2	18448	2961	READ	irisdev.mshome.net	CSPap.so	172.17.34.65	CSP Gateway
24	572	572	CSPSystem	|TCP|127.0.0.1:51773	%SYS	%SYS.cspServer3	1000	46	READ		CSPap.so	127.0.0.1	CSP Gateway
25	573	573	CSPSystem	|TCP|127.0.0.1:51773	%SYS	%SYS.cspServer3	1620	274	READ		CSPap.so	127.0.0.1	CSP Gateway
21	679	679	root	/dev/null	%SYS	%SYS.Monitor.Control.1	2071565	16885	EVTW				root
20	567	567	_SYSTEM	|TCP|irisdev.mshome.net:51773	%SYS	%SYS.ProcessQuery.1	1699071	374489	RUN	irisdev.mshome.net	CSPap.so	172.17.34.65	CSP Gateway
18	381	381		|TCP|51773	%SYS	%SYS.SERVER	0	0	READ				irisusr
13	535	535	TASKMGR	/dev/null	%SYS	%SYS.TaskSuper.1	15087	727	EVTW				irisusr
15	377	377		/dev/null	%SYS	CLNDMN	0	0	RUNW				irisusr
1	363	363				CONTROL	0	0	RUN				root
17	380	380		/dev/null	%SYS	ECPWork	0	0	RUNW				irisusr
5	374	374				EXPDMN	0	0	RUNW				root
3	365	365				GARCOL	0	0	RUNW				root
4	366	366				JRNDMN	559	0	RUNW				root
19	383	383		/dev/null	%SYS	LMFMON	564	71	HANG				irisusr
14	376	376		/dev/null	%SYS	MONITOR	5995	67	EVTW				irisusr
16	379	379		/dev/null	%SYS	RECEIVE	2001	113	HANG				irisusr
30	624	624	root	/dev/pts/0	IRISMONITOR	shell	8703	205	READ	CON:			root
6	367	367				SWRTDMN	2	16	RUNW				root
7	368	368				SWRTDMN	2	16	RUNW				root
8	369	369				SWRTDMN	2	16	RUNW				root
9	370	370				SWRTDMN	2	16	RUNW				root
10	371	371				SWRTDMN	2	16	RUNW				root
11	372	372				SWRTDMN	2	16	RUNW				root
12	373	373				SWRTDMN	2	16	RUNW				root
2	364	364				WRTDMN	88	278	RUNW				root

History Monitor

The History Monitor for CSP Sessions and Licensing shows the information between three sections:

- Every 5 Minutes
- Daily
- Hourly

Database Growth *only* shows Daily information.
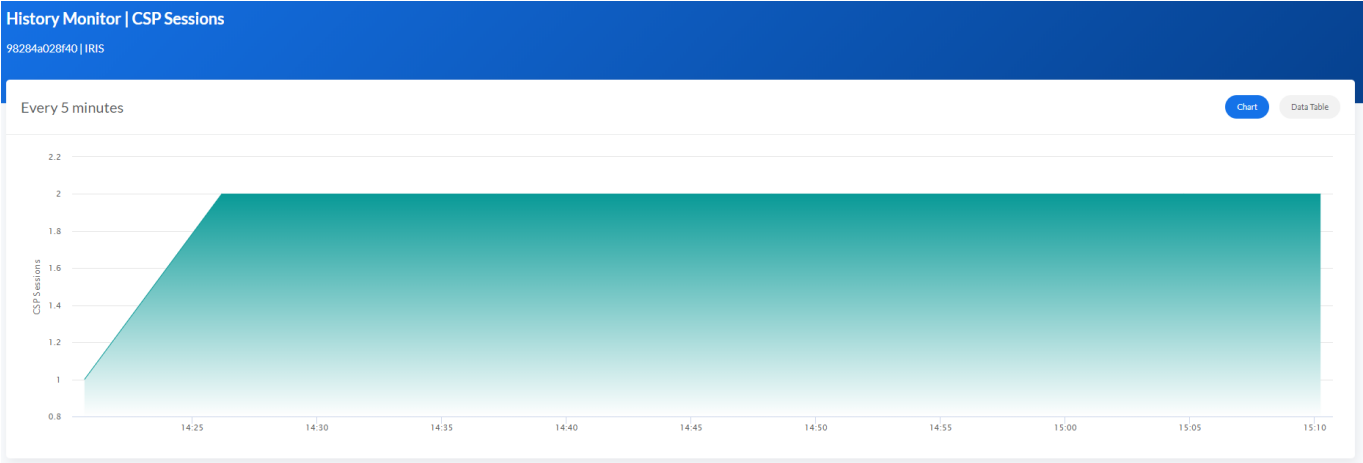
The history pages share the features below:

Date Range Picker
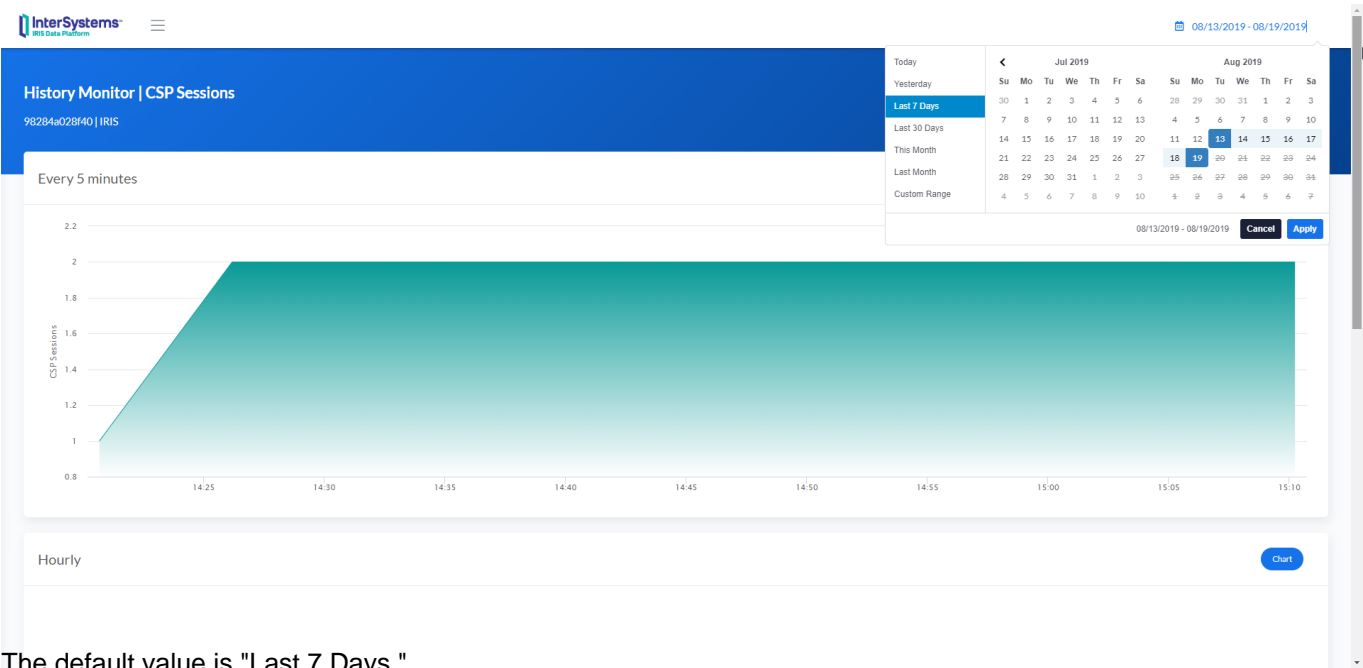
The *default* value is "Last 7 Days."

Chart / Data Table

On the top right of every each section, there are two buttons (Chart/Data Table)

The Data Table shows the information that creates the chart, and you can also download in Excel format.

The excel shows the same format, content, and group defined in the CSP.
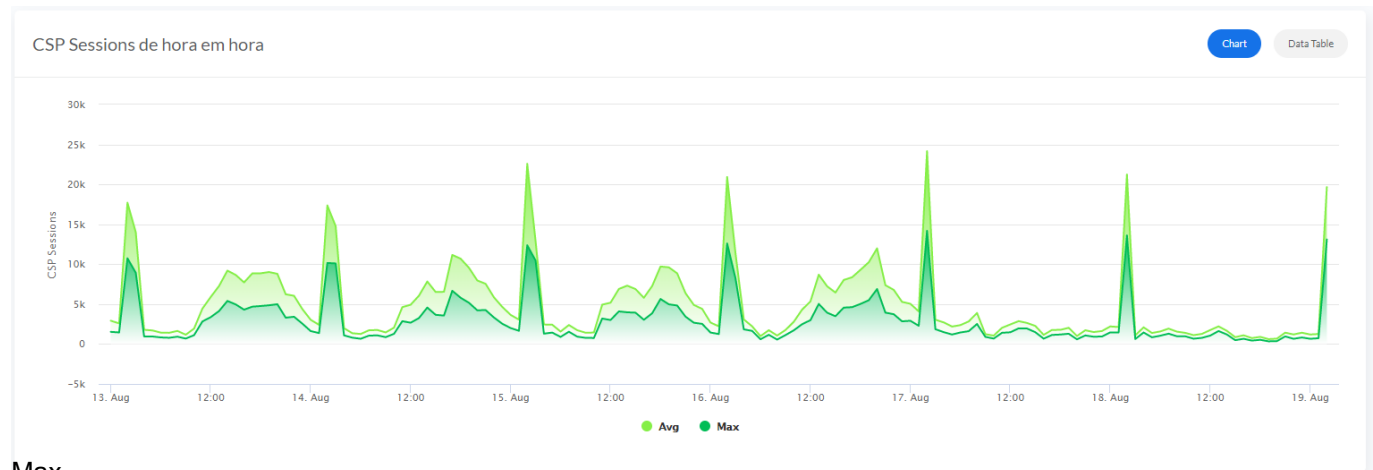
Zooming

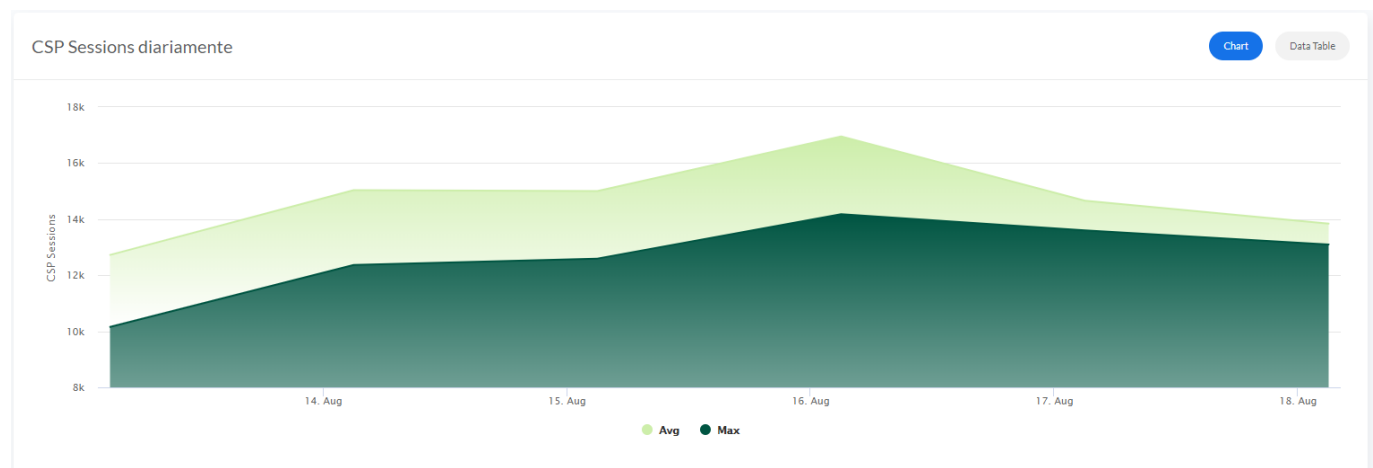All charts have the Zoom option to visualize the information with more details.
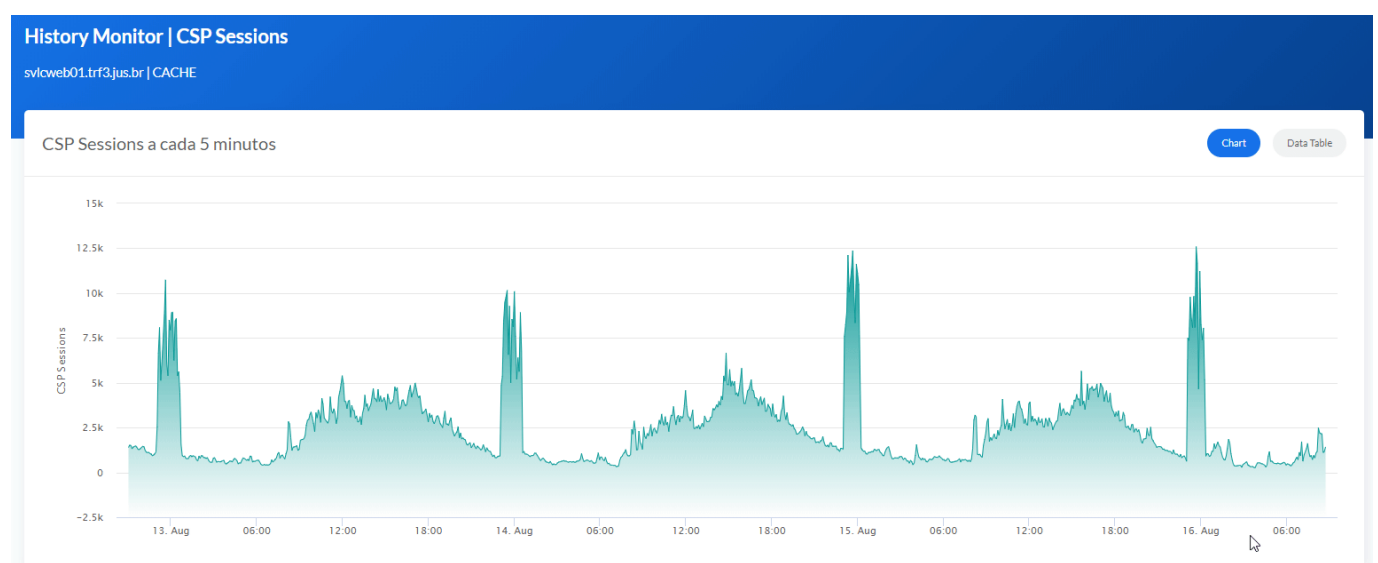
Average and Maximum

For the Sections Hourly and Daily, the charts show Average and Maximum values.

AVG

Max

Enjoy!

#Containerization #CSP #Dashboards #Docker #Monitoring #System Administration #Caché #InterSystems IRIS
#Open Exchange
Check the related application on InterSystems Open Exchange

Source URL:https://community.intersystems.com/post/dashboard-iris-history-monitor