🔆 kaltura

The Kaltura eCDN Monitoring Portal

Last Modified on 06/14/2020 3:03 pm IDT

Accessing the Kaltura eCDN Monitoring Portal

NOTE: To enable and configure your Kaltura eCDN account, contact your Kaltura representative.

Logging In

2.

 After your account is enabled and configured, navigate to your Kaltura eCDN Monitoring account at: https://ecdn-monitor.kaltura.com/dashboards The Grafana Log In window displays.



3. Type your Username and Password then click Log In.

NOTE: If you have multiple Partner IDs (PID), please use the following format to log into a specific PID in Grafana: PID/

The eCDN Monitoring Portal is displayed.



eCDN system overview -						\$ C	🖵 📀 Last 1	hour Refresh every 5n	<u>ବ</u> ଅ
Node All -									
√ Health									
		Status	O Last 2	minutes		Current network activity			O Last 2 minutes
Host Name	Status 🔺	Version	Issues		Node			optimization ratio	
ecdn.myecdn.local					kes-01.dev.kaltura.com	758.50 bps	1.83 kbps		
kes-01.dev.kaltura.com	UP	20.0.802	Failed to download video,		kes-02.dev.kaltura.com	2.19 kbps	4.01 kbps		
kes-02.dev.kaltura.com	UP	20.0.802							
8 kbps	All net	work activity - in			1.5 Mbps	All network activity - out			
6 kbos									
A khne					1.0 Mbps				
2 khon					500 kbps				
	\rightarrow		And man						
12:50 12:55 13:00 13:05	13:10 13:15	13:20 13:25	13:30 13:35 13:40 13:45		12:50 12:55 13:00 13:05 13:10	13:15 13:20 13	3:25 13:30 13	1:35 13:40 1	3:45
 kes-02.dev.kaltura.com in 			min max• avg cu 375 bps 6.279 kbps 1.080 kbps 2.192	kbps	 kes-02.dev.kaltura.com out 		min 2 kbps	1.305 Mbps 75 kt	ps 4 kbps
- kes-01.dev.kaltura.com in			431 bps 1.735 kbps 714 bps 586	6 bps	- kes-01.dev.kaltura.com out		2 kbps	2 kbps 2 kt	ps 2 kbps
> Application (1 panel)									
Response times (2 panels)									
2 panets)									

The eCDN Monitoring Portal contains the following three dashboards:

- eCDN System Overview the default dashboard displayed when you login
- eCDN Node Overview the dashboard describing the node activity
- eCDN Playback QoS beta shows the live analytics for the Kaltura Edge Server (KES)

You may view, share and perform other actions for each parameter on each dashboard. SeeeCDN Monitoring Board Actions for more information.

eCDN System Overview Dashboard

The *eCDN* System Overview dashboard displays the current network activity and the graphs showing application data for all of the servers installed system wide. The following tabs are available:



Health Tab



The Health tab displays the general health status of the *eCDN* servers also known as the Kaltura Edge Servers (KES) and the current network activity.

~	Health				
1			Status		O Last 2 minutes
	Host Name	Status 🔺			
	ecdn.myecdn.local	Down			
	kes-01.dev.kaltura.com	UP	20.0.802	Failed to download video,	
	kes-02.dev.kaltura.com	UP	20.0.802		

Status - current version and issues are indicated.

You may sort this list by server name by clicking the column header.

The Health column provides a color coded status indicator which indicates the overall health of that server.

The health status is an aggregate of the health status of individual services running inside this server. A mouse hover over the status indicator displays a popup that shows the health indicator of each component service.

- Green indicates the server is healthy in all aspects. The status of all underlying component services on this server are healthy.
- Orange indicates that the server is in the process of updating its configuration. It is a transient state. Usually configuration updates happen very quickly, and you will very rarely see the server status as pending.
- Red indicates one or more component services is unhealthy.

Current Network Activity - Displays the current in-out traffic per node.

	Current network ac	tivity	y 10. Des Boerbart Barrier	O Last 2 minutes
Node			optimization ratio	
kes-02.dev.kaltura.com	2.92 kbps	1.96 kbps		
kes-01.dev.kaltura.com	5.13 kbps	4.10 kbps		

Network Tab

The Network tab displays all inbound and outbound network activity.



Copyright © 2019 Kaltura Inc. All Rights Reserved. Designated trademarks and brands are the property of their respective owners. Use of this document constitutes acceptance of the Kaltura Terms of Use and Privacy Policy.



Application Tab

The Application tab displays pre-positioning live and cache usage during the last 2 minutes.



Response Times Tab

The Response Times tab displays how many users are requesting entries and what is the response time from the server.

Live Response Time - displays the maximum response times for 95% of the requests for live. **VOD Response Time** - displays the maximum response times for 95% of the requests for VOD.

eCDN Node Overview Dashboard

The *eCDN* Node Overview dashboard displays specific server data and may be used to debug servers. The following tabs are available:



Quick Overview Tab

# eCDN node overview -								0 B D	Clust their Befeild energy tim Q D
Note: kas-d1 dev kaltura com *									
- Quick overview									
1 Uptime	LA Medium	Zombie	Processes	F Breads	CPU usage	RAM usage	¹ Swap usage	1 Storage usage	1 KO wait
49.3 week		0	98	185		1 155		20%	0%

Copyright © 2019 Kaltura Inc. All Rights Reserved. Designated trademarks and brands are the property of their respective owners. Use of this document constitutes acceptance of the Kaltura Terms of Use and Privacy Policy.



Uptime - Indicates the elapsed time that this server node was last started.

LA (Load Average) Medium - Average CPU load for the node's load over the last 5 minutes

Zombie - Processes in the node that are dead but have not been removed by the parent

Processes - The total number of processes in any state on the node.

Threads - The total number of threads in any state on the node.

CPU Usage - Indicates the CPU usage percentage in the node.

RAM Usage - Indicates the memory usage percentage in the node.

Swap Usage - Indicates the percentage of RAM swap space in use in the node.

Storage Usage - The percentage of used disk space in the node.

IO Wait - The percentage of single CPU time that is idle waiting for the disk operation to complete in the server node.

Network Tab

The Network tab displays the network traffic rate over time in the node.



Application Tab

The Application tab displays preposition live and cache usage over time.

		preposition size	preposition used %					HOE GROM	
es-01.dev.kaltura.com	2.99 GB	3.07 GB		1.00 MB	8.26 GB	56.00 MB	33.02 GB		
				Cache & Preposition us	ege -				
								ache used	
0.08	2019-08-06 12:200	20 20 20 20					- ber	acter size	8.25 08
	= vod cache used: 54	LOO MB						tache used	56.00 MB
0.68	- preposition used: :	2.99 08						ache sizz	33.82.66
	- preposition size:	3.07 08					- prep	settion used	2.99 58
0.08	wod cache size.	5.02 GB					= prep	sation size	
	A DESCRIPTION OF TAXABLE PARTY.								

System Tab





Memory Usage - Displays the average memory allocation by usage.

CPU Usage - Displays the percentage of CPU time spent in each of its state (system, Idle, io wait, etc.) in the node.

Load Average - Displays the average CPU load over time frames of 1, 5, 15 minutes on the node.

Swap Tab

The Swap tab displays the Swap and disk usage.

- Swap															
1076	•	vop usage (percent)					91 G8			Disk usage					
87%							40.00								
		2019-08-05 12-44:0 - two-usage: 07					30 G8								
10%							20 (28								
	1240				19:26		10 68	12:30	12.40	12:50	13.00		1210		12:20 ourrent
- THE HAD			-	15	eg our	1%	- total - used					48.5 GB	48.5 G8	48.5.98	48.698

Swap Usage - displays the swap usage percentage in the node over time.

Disk Usage - displays the disk space allocation over time in the node.

Responses Overview Tab



Erroneous Responses - Displays the number of the response status codes from the node.

Cache hits - Displays the number of requests for both live and VOD and their cache hits

Unique Clients - Displays the number of unique clients for both VOD and live (ts requests)

Response Time Overview Tab

🔆 kaltura

- Res	pons	a times																
					Response to	****								Response ti	ires			
1.																		
									1929									
	haven a	evitalitana.co																
	hes CD.	in latera o									decision o							

Response Time Histograms Tab

This tab provides histograms showing when you have users requesting entries from KES and will populate with the response times from the server to the user.



VOD Response times - Displays the histogram for video chunks (ts) response times for VOD

Live Response times - Displays the histogram for video chunks (ts) response times for Live

Network Performance Tab

Copyright © 2019 Kaltura Inc. All Rights Reserved. Designated trademarks and brands are the property of their respective owners. Use of this document constitutes acceptance of the Kaltura Terms of Use and Privacy Policy.



VOD - fetch times - video chunks - histogram for video chunks (ts) fetch times for VOD

Live - fetch times - video chunks y histogram for video chunks (ts) fetch times for Live

VOD - response times - playManifest histogram for playManifest response times for VOD

Live response times - playManifest histogram for playManifest (m3u8) response times for live

VOD - fetch times - playManifest - histogram for playManifest (m3u8) fetch times for VOD

Live - fetch times - playManifest - histogram for playManifest (m3u8) fetch times for Live

eCDN Playback QoS Dashboard

The *eCDN* Playback QoS dashboard displays all the data needed to monitor a live event. The following tabs are available:

Node All - Entry Id	User Id	
		Playback Type All 👻
Summary (3 panels)		
Overview (4 panels)		
Buffering (2 panels)		

You can filter data on the QoS dashboard. See Filtering Options for the QoS Dashboard.

Summary Tab



Unique Known Users - Displays the number of unique known users that have signed in to view the content.

Average Buffering Ratio - Displays the(time user buffered)/(total play time)

Average Bitrate - Displays the (total number of bits downloaded by all players)/(number of seconds)

Overview Tab



- Overview				
£.	Vere			Map of users and buffering +
No. No. No.				
E.		Overall Sel		F Kernstelwes
The second se				
with two right furthers not				
estivites ryl. kaltura.net				
60%			2.01 Mayer	
auto-base 42			1.01 Mayo	
accite ACS (1) Aphara.net			2.01 Mayo	

Viewer Panel

Dual line graph showing the number of viewers over time as one line and the Average buffering rate as the second line.

Map of Users and Buffering Panel

The distribution of the viewers around the world. The location is set by the IP address sent by the player. If the video is being viewed through the *eCDN*, the location will be the *eCDN* location.

Overall Qos Panel

This panel displays how each KES is performing for the following metrics:

- Total View Time
- Unique known Users
- AVG. Bitrate
- Buffering Ratio

Non-routed Users Panel

Users that are viewing the video NOT through the KES.

Buffering Tab



Top User Buffering

The Top User Buffering table provides buffering data grouped by users. The following data is shown for each identified user ID:

- Entry ID
- Entry Name
- Node
- Internal IP
- Total View Time
- AVG. Bitrate
- Buffering Ratio



Top Browser Buffering

The Top Browser Buffering table provides buffering data grouped by types of browsers. The following data is shown for each browser:



You an view how well each one of the browsers is performing for the following mertics:

- Total View Time
- Buffering Ratio

eCDN Monitoring Board Actions

• Hover over the component name and click the arrow to access the Actions menu.



The following actions are available:

View - select to display the component's section individually.

Share - select to create a direct link, embed code or snapshot to this specific dashboard or panel. You may customize the sharing option.

More - select Panel JSON to copy the code to a clipboard or Export CSV - to export data to a CSV file.

Filtering Options for the eCDN Playback QoS Dashboard

- Node
- Entry ID
- User ID
- Playback Type

Filter by Node - Click on the arrow to use the drop down menu to filter by node.



The following options: are available

- All Do not filter the data include all data
- CDN Show only data coming from the CDN.
- No KES Show only data coming from users that are not routed to any KES.



• KES display data for an individual KES installed in the system

Filter by Entry ID

Enter a specific entry ID to only view its QoS data for that entry.

Filter by User ID

Enter a specific User ID to only view that specific user's QoS data

Filter by Playback type - Click on the arrow to use the drop down menu to filter by playback type.

- All Do not filter the data include all data
- Live View only Live events data
- VOD View only VOD events data
- DVR View only Live events data from users that are viewing the DVR