title: Synthetics Metrics description: List of metrics collected as part of HTTP and Browser monitor $\,$

Synthetics monitors collect the following metrics as part of every run. You can create custom charts using Chart Builder for Synthetics metrics. The custom charts can be used to compare Synthetics metrics across multiple monitors.

HTTP Monitor Metrics

Name	Label	Description	Unit
synthetics.tim	ne.resp dhs eponse time	Total time taken for the complete request & response	ms
synthetics.htt	p.time DNS lookup time	DNS resolution time	ms
synthetics.htt	p.time.Socketctonnect time	Socket connection time	ms
synthetics.htt	p.timeXIsS handshake time	TLS handshake time	ms
synthetics.htt	p.time:flisstebytefirst byte (TTFB)	Time taken to receive the first response byte from the server. Also called server or wait time	ms
synthetics.htt	p.time.ldownload Time	Time taken to download the response body	ms
synthetics.htt	p.resp ®usspxins e Body Size	Size of the response body	bytes

Browser Monitor Metrics

Run Metrics

For every browser run, the monitor collects the below run-level metrics:

Name	Label	Description	Unit
synthetics.time.res	pdaseponse time	Total time taken for the script to finish	ms

Name	Label	Description	Unit
synthetics.browser.requeststocontent		Total number of HTTP requests sent during the execution of the script	
synthetics.br	owser.tf Anasisfes i zė ze	Total number of network bytes downloaded during the execution of the script	bytes

Page Load Metrics

The browser monitor collects the below page load (navigation) metrics for every run. If there are multiple page loads during the execution of the script, the last page-load metrics are collected.

Name	Label	Description	Unit
synthetics.bro	owser.ti Fnorftend etidne	Time taken for the browser to parse and create the page	ms
synthetics.br	owser.ti Bæ:kæætetich e	Time taken for the network and the server to generate and start sending the HTML	
synthetics.br	owser.t iflægpågælbåil ne	Time taken for the page to load, from initiation of the page load (e.g., click on a page link) to load completion in the browser	ms
synthetics.bro	owser.t iDNS1ni me	DNS resolution time for the URL of the page	ms
synthetics.bro	owser.t iSockennentieat time	Time taken to connect to server	ms

Name	Label	Description	Unit
synthetics.bro	owser.tffinerespoinset	Time taken for	ms
	byte	the server to	
		send the	
		response	
synthetics.bro	owser.ti Dow.ddwadotid ne	Time taken to	ms
		download the	
		page contents	
synthetics.bro	owser.ti ld@Molintærtærtivt ive		ms
	$_{ m time}$	the browser to	
		parse the	
		document,	
		including the	
		network time	
		from the user's	
		location to your	
		server	
synthetics.bro	owser.ti ld@.Mlonourtentt entloa		ms
	load time	the browser to	
		parse the	
		document and	
		execute deferred	
		and	
		parser-inserted	
		scripts including the network time	
		from the user's	
		location to your	
		server	
synthetics bro	owser.tilinespalatular(FP)	The time from	ms
symmetics.br	owser.umuesparatiuretri	navigation to the	1115
		time when the	
		first paint	
		happens on the	
		screen	
synthetics.bro	owser.tiFriespaConferstbolnte		ms
	Paint (FCP)	navigation to the	-
	(- /	time when the	
		browser renders	
		the first bit of	
		content from the	
		DOM	

Name	Label	Description	Unit
synthetics.browser.tilnargesint.largestcontEntfulme for			ms
	Contentful Paint	largest content	
	(LCP)	element to be	
		visible in the	
		viewport.	
synthetics.brows	er.c Chullatàtèlæ youtsh	iftThe sum total of	
	Layout Shift	all individual	
	(CLS)	layout shift	
		scores for every	
		unexpected	
		layout shift that	
		occurs during the	
		entire lifespan of	
		the page	

Resource Metrics

Browser monitor collects the below metrics for every resource loaded during the execution of the script:

Name	Label	Description	Unit
synthetics.browser	.re Scansfertsize fer.siz		bytes
synthetics.browser	.r ekesnaec einti e ne	the resource content Total time taken to fetch the resource	ms

Custom Metrics

You can script the Browser monitor to collect custom metrics that are specific to your website or use case. For example, you might need to measure the time take to display auto-suggestions on your website or collect & monitor the value from an element in your webpage. To collect a custom metric use context.setMetric(name, value) method in the Browser monitor script. For more info on how to use this API, look into the examples while creating the Browser monitor. The metric name should be unique for this Synthetics App and will be automatically pre-pended with synthetics. prefix. You could use Chart Builder to create a custom chart to monitor this metric. You could also create a threshold or anomaly alert on this metric.