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# Universal Contact Service Private Edition Guide

**<em>No results</em> metrics and alerts**

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Find the metrics UCS exposes and the alerts defined for UCS.

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Service	CRD or annotations?	Port	Endpoint/Selector	Metrics update interval
UCS	ServiceMonitorpodAnnotations	10052	ucsx.ucsx.svc.cluster.local:10052/metrics	30 seconds

See details about:

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## Metrics

Metric and description	Metric details	Indicator of
<b>ucsx_performance</b> Basic metric, created with starting metrics service, cannot be disabled.	<b>Unit:</b> Percentage  <b>Type:</b> Gauge <b>Label:</b> metric="cpuUsage" <b>Sample value:</b> 1	CPU Usage
<b>ucsx_memory</b> Resident Set Size	<b>Unit:</b> MB  <b>Type:</b> Gauge <b>Label:</b> <b>Sample value:</b> 1024	
<b>ucsx_http_request_duration_count</b> Total number of all HTTP requests	<b>Unit:</b> Integer  <b>Type:</b> Histogram <b>Label:</b> <b>Sample value:</b> 100	
<b>ucsx_http_request_duration_sum</b> Total duration of all HTTP requests	<b>Unit:</b> Milliseconds  <b>Type:</b> Histogram	

Metric and description	Metric details	Indicator of
	<b>Label:</b> <b>Sample value:</b> 500	
<b>ucsx_elastic_search_count</b> Total number of all ElasticSearch requests	<b>Unit:</b> Integer <b>Type:</b> Histogram <b>Label:</b> <b>Sample value:</b> 100	
<b>ucsx_elastic_search_sum</b> Total duration of all ElasticSearch requests	<b>Unit:</b> Milliseconds <b>Type:</b> Histogram <b>Label:</b> <b>Sample value:</b> 500	
<b>ucsx_tenantdb_health_status</b> Tenant DB status	<b>Unit:</b> Integer <b>Type:</b> Gauge <b>Label:</b> <b>Sample value:</b> 1	
<b>ucsx_elasticsearch_health_status</b> ElasticSearch status	<b>Unit:</b> Integer <b>Type:</b> Gauge <b>Label:</b> <b>Sample value:</b> 1	
<b>ucsx_masterdb_health_status</b> Master DB status	<b>Unit:</b> Integer <b>Type:</b> Gauge <b>Label:</b> <b>Sample value:</b> 1	
<b>ucsx_overload_protection_count</b> Count of the overload protection events	<b>Unit:</b> Integer <b>Type:</b> Counter <b>Label:</b> <b>Sample value:</b> 0	

## Alerts

The following alerts are defined for *No results*.

Alert	Severity	Description	Based on	Threshold
ucsx_instance_high_cpu_utilization	Warning	Triggered when average CPU usage is more than 80%	ucsx_performance	5 minutes
ucsx_instance_high_memory_usage	Warning	Triggered when average CPU usage is more than 800 Mb	ucsx_memory	5 minutes
ucsx_instance_high_http_request_rate	Warning	Triggered when	ucsx_http_request_duration	30 minutes

Alert	Severity	Description	Based on	Threshold
		request rate is more than 120 requests per seconds on one UCS-X instance		
ucsx_instance_slow_http_response	critical	Triggered when average http response time > 500 ms	ucsx_http_request_duration_sum, ucsx_http_request_duration_count	5 minutes
ucsx_elasticsearch_slow_internal_processing_time	critical	Triggered when Elasticsearch internal processing time > 500 ms	ucsx_elastic_search_sum, ucsx_elastic_search_count	5 minutes
ucsx_tenantdb_health_status	critical	Triggered when there is no connection to tenant DB	ucsx_tenantdb_health_status	2 minutes
ucsx_elasticsearch_health_status	critical	Triggered when there is no connection to ElasticSearch	ucsx_elasticsearch_health_status	2 minutes
ucsx_masterdb_health_status	critical	Triggered when there is no connection to master DB	ucsx_masterdb_health_status	2 minutes
ucsx_instance_overloading	warning	Triggered when overload protection rate is more than 0	ucsx_overload_protection_rate	5 minutes