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# Voice Microservices Private Edition Guide

[Config Service metrics and alerts](#)

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Find the metrics Config Service exposes and the alerts defined for Config Service.

Service	CRD or annotations?	Port	Endpoint/Selector	Metrics update interval
Config Service	Supports both CRD and annotations	9100	http://:9100/metrics	30 seconds

See details about:

- Config Service metrics
- Config Service alerts

## Metrics

You can query Prometheus directly to see all the metrics that the Voice Config Service exposes. The following metrics are likely to be particularly useful. Genesys does not commit to maintain other currently available Config Service metrics not documented on this page.

Metric and description	Metric details	Indicator of
<b>config_device_response</b>  Number of device responses for each request.	<b>Unit:</b> N/A  <b>Type:</b> counter <b>Label:</b> location, tenant, request_type, status <b>Sample value:</b> 2	Traffic
<b>config_tenant_response</b>  Number of Tenant responses for each request.	<b>Unit:</b> N/A  <b>Type:</b> counter <b>Label:</b> location, request_type, status <b>Sample value:</b> 2	Traffic
<b>config_node_get_response</b>  Number of Get responses for each request.	<b>Unit:</b> N/A  <b>Type:</b> counter <b>Label:</b> <b>Sample value:</b>	Traffic
<b>config_node_agent_response</b>  Number of agent responses for each request.	<b>Unit:</b> N/A  <b>Type:</b> counter <b>Label:</b> <b>Sample value:</b>	Traffic
<b>config_redis_state</b>	<b>Unit:</b> N/A	Errors

Metric and description	Metric details	Indicator of
Current Redis connection state:  -1 - error 0 - disconnected 1 - connected 2 - ready	<b>Type:</b> gauge <b>Label:</b> location, redis_cluster_name <b>Sample value:</b> 2	
<b>service_version_info</b>  Displays the version of Voice Config Service that is currently running. In the case of this metric, the labels provide the important information. The metric value is always 1 and does not provide any information.	<b>Unit:</b> N/A  <b>Type:</b> gauge <b>Label:</b> version <b>Sample value:</b> service_version_info{version="100.0.1000006"} 1	
<b>config_health_level</b>  Health level of the config node:  -1 - error 0 - fail 1 - degraded 2 - pass	<b>Unit:</b> N/A  <b>Type:</b> gauge <b>Label:</b> <b>Sample value:</b> 2	Errors
<b>config_healthcheck_generic_exception</b>  Generic error during health check.	<b>Unit:</b> N/A  <b>Type:</b> gauge <b>Label:</b> <b>Sample value:</b> 0	

## Alerts

The following alerts are defined for Config Service.

Alert	Severity	Description	Based on	Threshold
Redis disconnected for 5 minutes	Warning	<p>Actions:</p> <ul style="list-style-type: none"> <li>If the alarm is triggered for multiple services, make sure there are no issues with Redis, then restart Redis.</li> <li>If the alarm is triggered only for the pod {{ \$labels.pod }}, check to see if there is an issue with the</li> </ul>	redis_state	Redis is not available for pod {{ \$labels.pod }} for 5 minutes.

Alert	Severity	Description	Based on	Threshold
		pod.		
Redis disconnected for 10 minutes	Critical	<p>Actions:</p> <ul style="list-style-type: none"> <li>• If the alarm is triggered for multiple services, make sure there are no issues with Redis, then restart Redis.</li> <li>• If the alarm is triggered only for the pod {{ \$labels.pod }}, check to see if there is an issue with the pod.</li> </ul>	redis_state	Redis is not available for the pod {{ \$labels.pod }} for 10 minutes.
Pod Failed	Warning	<p>Actions:</p> <ul style="list-style-type: none"> <li>• One of the containers in the pod has entered a failed state. Check the Kibana logs for the reason.</li> </ul>	kube_pod_status_phase	Pod failed {{ \$labels.pod }}.
Pod Unknown state	Warning	<p>Actions:</p> <ul style="list-style-type: none"> <li>• If the alarm is triggered for multiple services, make sure there are no issues with the Kubernetes cluster.</li> <li>• If the alarm is triggered only for the pod {{ \$labels.pod }}, check to see whether the image is correct and if the container is starting up.</li> </ul>	kube_pod_status_phase	Pod {{ \$labels.pod }} is in Unknown state for 5 minutes.

Alert	Severity	Description	Based on	Threshold
Pod Pending state	Warning	<p>Actions:</p> <ul style="list-style-type: none"> <li>If the alarm is triggered for multiple services, make sure the Kubernetes nodes where the pod is running are alive in the cluster.</li> <li>If the alarm is triggered only for the pod {{ \$labels.pod }}, check the health of the pod.</li> </ul>	kube_pod_status_phase	Pod {{ \$labels.pod }} is in Pending state for 5 minutes.
Pod Not ready for 10 minutes	Critical	<p>Actions:</p> <ul style="list-style-type: none"> <li>If this alarm is triggered, check whether the CPU is available for the pods.</li> <li>Check whether the port of the pod is running and serving the request.</li> </ul>	kube_pod_status_ready	Pod {{ \$labels.pod }} is in NotReady state for 10 minutes.
Container restarted repeatedly	Critical	<p>Actions:</p> <ul style="list-style-type: none"> <li>One of the containers in the pod has entered a failed state. Check the Kibana logs for the reason.</li> </ul>	kube_pod_container_start_time	Container {{ \$labels.container }} was restarted 5 or more times total within 15 minutes.
Pod memory greater than 65%	Warning	<p>High memory usage for pod {{ \$labels.pod }}.</p> <p>Actions:</p> <ul style="list-style-type: none"> <li>Check whether</li> </ul>	container_memory_working_set_bytes kube_pod_container_resource_requests_memory_bytes	Container {{ \$labels.container }} memory usage exceeded 65% for 5 minutes.

Alert	Severity	Description	Based on	Threshold
		<p>the horizontal pod autoscaler has triggered and if the maximum number of pods has been reached.</p> <ul style="list-style-type: none"> <li>• Check Grafana for abnormal load.</li> <li>• Collect the service logs; raise an investigation ticket.</li> </ul>		
Pod memory greater than 80%	Critical	<p>Critical memory usage for pod {{ \$labels.pod }}.</p> <p>Actions:</p> <ul style="list-style-type: none"> <li>• Check whether the horizontal pod autoscaler has triggered and if the maximum number of pods has been reached.</li> <li>• Check Grafana for abnormal load.</li> <li>• Restart the service.</li> <li>• Collect the service logs; raise an investigation ticket.</li> </ul>	Container {{ \$labels.container }}.memory_usage_exceeded_80_percent_for_kube_pod_container_resource_requests_memory_bytes	
Pod CPU greater than 65%	Warning	<p>High CPU load for pod {{ \$labels.pod }}.</p> <p>Actions:</p> <ul style="list-style-type: none"> <li>• Check whether the horizontal</li> </ul>	Container {{ \$labels.container }}.cpu_usage_exceeded_65_percent_for_container_spec_cpu_period	

Alert	Severity	Description	Based on	Threshold
		<p>pod autoscaler has triggered and if the maximum number of pods has been reached.</p> <ul style="list-style-type: none"> <li>• Check Grafana for abnormal load.</li> <li>• Collect the service logs; raise an investigation ticket.</li> </ul>		
Pod CPU greater than 80%	Critical	<p>Critical CPU load for pod {{ \$labels.pod }}.</p> <p>Actions:</p> <ul style="list-style-type: none"> <li>• Check whether the horizontal pod autoscaler has triggered and if the maximum number of pods has been reached.</li> <li>• Check Grafana for abnormal load.</li> <li>• Restart the service.</li> <li>• Collect the service logs; raise an investigation ticket.</li> </ul>	container_cpu_usage_seconds_total{container_spec_cpu_period}	Container {{ \$labels.container }} CPU usage exceeded 80% for 5 minutes.