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# Genesys Pulse Private Edition Guide

Tenant Load Distribution Server (LDS) metrics and alerts

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Find the metrics Tenant Load Distribution Server (LDS) exposes and the alerts defined for Tenant Load Distribution Server (LDS).

**Related documentation:**

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Service	CRD or annotations?	Port	Endpoint/Selector	Metrics update interval
Tenant Load Distribution Server (LDS)	PodMonitor	9091	<pre> selector:   matchLabels:     app.kubernetes.io/ name: {{include "common.util.chart.name" . }}     app.kubernetes.io/ instance: {{include "common.util.chart.fullname" . }}   service:     {{.Release.Namespace }}   servicename:     {{include "common.util.chart.name" . }}   tenant:     {{.Values.tenant.sid }} Endpoints to query: /metrics/ </pre>	30 seconds

See details about:

- Tenant Load Distribution Server (LDS) metrics
- Tenant Load Distribution Server (LDS) alerts

## Metrics

Metric and description	Metric details	Indicator of
<p><b>pulse_monitor_check_duration_seconds</b></p> <p>The duration in seconds of the last health check performed by Monitor Agent.</p>	<p><b>Unit:</b> seconds</p> <p><b>Type:</b> Gauge</p> <p><b>Label:</b> tenant</p> <p><b>Sample value:</b></p>	Error
<p><b>pulse_lds_uptime_seconds</b></p>	<p><b>Unit:</b> seconds</p>	Error

Metric and description	Metric details	Indicator of
The LDS container uptime in seconds.	<b>Type:</b> Gauge <b>Label:</b> tenant <b>Sample value:</b>	
<b>pulse_lds_senders_number</b> The number of upstream servers to which the LDS is connected.	<b>Unit:</b> <b>Type:</b> Gauge <b>Label:</b> tenant <b>Sample value:</b> 2	Error
<b>pulse_lds_receivers_number</b> The number of clients connected to the LDS.	<b>Unit:</b> <b>Type:</b> Gauge <b>Label:</b> tenant <b>Sample value:</b> 2	Error
<b>pulse_lds_sender_connected_seconds</b> Duration in seconds of connection to the upstream server.	<b>Unit:</b> seconds <b>Type:</b> Gauge <b>Label:</b> tenant, sender <b>Sample value:</b>	Error
<b>pulse_lds_sender_disconnected_seconds</b> Duration in seconds of disconnection from the upstream server.	<b>Unit:</b> seconds <b>Type:</b> Gauge <b>Label:</b> tenant, sender <b>Sample value:</b>	Error
<b>pulse_lds_sender_registered_dns_number</b> The number of DNSs registered on the upstream server.	<b>Unit:</b> <b>Type:</b> Gauge <b>Label:</b> tenant, sender <b>Sample value:</b> 1000	Saturation
<b>pulse_lds_sender_registration_errors_number</b> The number of failed registrations of DNSs on the upstream server.	<b>Unit:</b> <b>Type:</b> Gauge <b>Label:</b> tenant, sender <b>Sample value:</b> 0	Error
<b>pulse_lds_receiver_connected_seconds</b> Duration in seconds of client connection to the LDS.	<b>Unit:</b> seconds <b>Type:</b> Gauge <b>Label:</b> tenant, receiver <b>Sample value:</b>	Error
<b>pulse_lds_receiver_registered_dns_number</b> The number of DNSs registered by the client.	<b>Unit:</b> <b>Type:</b> Gauge <b>Label:</b> tenant, receiver <b>Sample value:</b> 1000	Saturation
<b>pulse_lds_receiver_registration_errors_number</b> The number of failed registrations of DNSs received from the client.	<b>Unit:</b> <b>Type:</b> Gauge <b>Label:</b> tenant, receiver <b>Sample value:</b> 0	Error

## Alerts

Alerts are based on LDS and Kubernetes cluster metrics.

The following alerts are defined for Tenant Load Distribution Server (LDS).

Alert	Severity	Description	Based on	Threshold
pulse_lds_monitor_data	Critical	Pulse LDS Monitor Agents do not provide data.	pulse_monitor_check_duration_seconds, kube_statefulset_replicas	for 15 minutes
pulse_lds_critical_nonavailable_instances	Critical	Triggered when Pulse LDS instances are down.	kube_statefulset_status_replicas_ready, kube_statefulset_status_replicas	for 15 minutes
pulse_lds_too_frequent_restarts	Critical	Detected too frequent restarts of LDS Pod container.	kube_pod_container_status_restarts_total	2 for 1 hour
pulse_lds_critical_cpu	Critical	Detected critical CPU usage by Pulse LDS Pod.	container_cpu_usage_seconds_total, kube_pod_container_resource_limits	90%
pulse_lds_critical_memory	Critical	Detected critical memory usage by Pulse LDS Pod.	container_memory_working_set_bytes, kube_pod_container_resource_limits	90%
pulse_lds_no_connectors	Critical	Pulse LDS is not connected to upstream servers.	pulse_lds_senders_number	for 15 minutes
pulse_lds_no_registered_dns	Critical	No DNS are registered on Pulse LDS.	pulse_lds_sender_registered_number	for 30 minutes