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Operations

Sample Prometheus queries

Related documentation:

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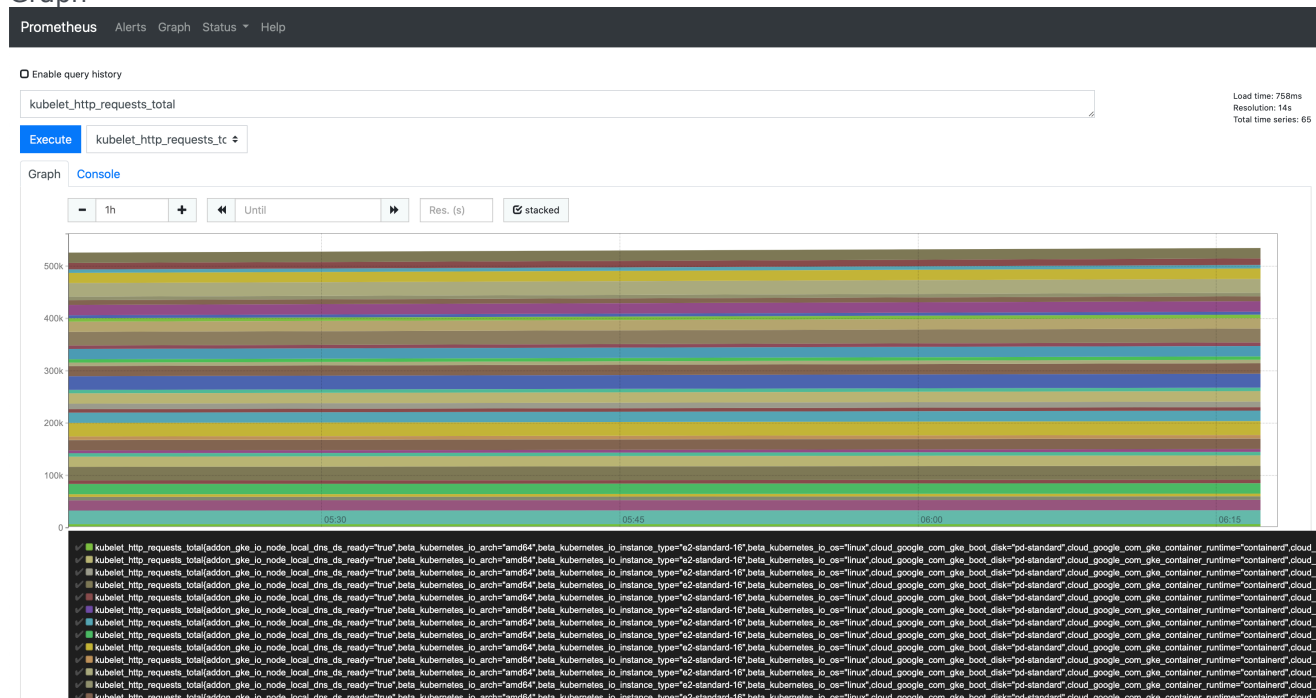
RSS:

- Here are some sample Prometheus queries to collect metrics. The result of each query in Prometheus can either be shown as a graph or viewed as console output.

Query1: kubelet_http_requests_total

Output:

Graph



Console:

Prometheus Alerts Graph Status Help

Enable query history

kubelet_http_requests_total

Execute kubelet_http_requests_tc

Graph Console

◀ Moment ▶▶

Element	Value
kubelet_http_requests_total{addon_gke_io_node_local_dns_ds_ready="true",beta_kubernetes_io_arch="amd64",beta_kubernetes_io_instance_type="e2-standard-16",beta_kubernetes_io_os="linux",cloud_google_com_gke_boot_disk="pd-standard",cloud_google_com_gke_container_runtime="containerd",cloud_google_com_gke_nodepool="default-pool",cloud_google_com_gke_os_distribution="cos",cloud_google_com_machine_family="e2",failure_domain_beta_kubernetes_io_region="us-west1",failure_domain_beta_kubernetes_io_zone="us-west1-a",instance="gke-gke1-default-pool-8dc9a397-015e",job="kubelet",kubernetes_io_arch="amd64",kubernetes_io_hostname="gke-gke1-default-pool-8dc9a397-015e",kubernetes_io_os="linux",long_running="false",method="GET",node_kubernetes_io_instance_type="e2-standard-16",path="containerLogs",server_type="readwrite",topology_gke_io_zone="us-west1-a",topology_kubernetes_io_region="us-west1",topology_kubernetes_io_zone="us-west1-a"}	378
kubelet_http_requests_total{addon_gke_io_node_local_dns_ds_ready="true",beta_kubernetes_io_arch="amd64",beta_kubernetes_io_instance_type="e2-standard-16",beta_kubernetes_io_os="linux",cloud_google_com_gke_boot_disk="pd-standard",cloud_google_com_gke_container_runtime="containerd",cloud_google_com_gke_nodepool="default-pool",cloud_google_com_gke_os_distribution="cos",cloud_google_com_machine_family="e2",failure_domain_beta_kubernetes_io_region="us-west1",failure_domain_beta_kubernetes_io_zone="us-west1-a",instance="gke-gke1-default-pool-8dc9a397-015e",job="kubelet",kubernetes_io_arch="amd64",kubernetes_io_hostname="gke-gke1-default-pool-8dc9a397-015e",kubernetes_io_os="linux",long_running="false",method="GET",node_kubernetes_io_instance_type="e2-standard-16",path="healthz",server_type="readonly",topology_gke_io_zone="us-west1-a",topology_kubernetes_io_region="us-west1",topology_kubernetes_io_zone="us-west1-a"}	6633
kubelet_http_requests_total{addon_gke_io_node_local_dns_ds_ready="true",beta_kubernetes_io_arch="amd64",beta_kubernetes_io_instance_type="e2-standard-16",beta_kubernetes_io_os="linux",cloud_google_com_gke_boot_disk="pd-standard",cloud_google_com_gke_container_runtime="containerd",cloud_google_com_gke_nodepool="default-pool",cloud_google_com_gke_os_distribution="cos",cloud_google_com_machine_family="e2",failure_domain_beta_kubernetes_io_region="us-west1",failure_domain_beta_kubernetes_io_zone="us-west1-a",instance="gke-gke1-default-pool-8dc9a397-015e",job="kubelet",kubernetes_io_arch="amd64",kubernetes_io_hostname="gke-gke1-default-pool-8dc9a397-015e",kubernetes_io_os="linux",long_running="false",method="GET",node_kubernetes_io_instance_type="e2-standard-16",path="metrics",server_type="readwrite",topology_gke_io_zone="us-west1-a",topology_kubernetes_io_region="us-west1",topology_kubernetes_io_zone="us-west1-a"}	26548
kubelet_http_requests_total{addon_gke_io_node_local_dns_ds_ready="true",beta_kubernetes_io_arch="amd64",beta_kubernetes_io_instance_type="e2-standard-16",beta_kubernetes_io_os="linux",cloud_google_com_gke_boot_disk="pd-standard",cloud_google_com_gke_container_runtime="containerd",cloud_google_com_gke_nodepool="default-pool",cloud_google_com_gke_os_distribution="cos",cloud_google_com_machine_family="e2",failure_domain_beta_kubernetes_io_region="us-west1",failure_domain_beta_kubernetes_io_zone="us-west1-a",instance="gke-gke1-default-pool-8dc9a397-015e",job="kubelet",kubernetes_io_arch="amd64",kubernetes_io_hostname="gke-gke1-default-pool-8dc9a397-015e",kubernetes_io_os="linux",long_running="false",method="GET",node_kubernetes_io_instance_type="e2-standard-16",path="metrics/cadvisor",server_type="readonly",topology_gke_io_zone="us-west1-a",topology_kubernetes_io_region="us-west1",topology_kubernetes_io_zone="us-west1-a"}	44
kubelet_http_requests_total{addon_gke_io_node_local_dns_ds_ready="true",beta_kubernetes_io_arch="amd64",beta_kubernetes_io_instance_type="e2-standard-16",beta_kubernetes_io_os="linux",cloud_google_com_gke_boot_disk="pd-standard",cloud_google_com_gke_container_runtime="containerd",cloud_google_com_gke_nodepool="default-pool",cloud_google_com_gke_os_distribution="cos",cloud_google_com_machine_family="e2",failure_domain_beta_kubernetes_io_region="us-west1",failure_domain_beta_kubernetes_io_zone="us-west1-a",instance="gke-gke1-default-pool-8dc9a397-015e",job="kubelet",kubernetes_io_arch="amd64",kubernetes_io_hostname="gke-gke1-default-pool-8dc9a397-015e",kubernetes_io_os="linux",long_running="false",method="GET",node_kubernetes_io_instance_type="e2-standard-16",path="metrics/cadvisor",server_type="readonly",topology_gke_io_zone="us-west1-a",topology_kubernetes_io_region="us-west1",topology_kubernetes_io_zone="us-west1-a"}	19910
kubelet_http_requests_total{addon_gke_io_node_local_dns_ds_ready="true",beta_kubernetes_io_arch="amd64",beta_kubernetes_io_instance_type="e2-standard-16",beta_kubernetes_io_os="linux",cloud_google_com_gke_boot_disk="pd-standard",cloud_google_com_gke_container_runtime="containerd",cloud_google_com_gke_nodepool="default-pool",cloud_google_com_gke_os_distribution="cos",cloud_google_com_machine_family="e2",failure_domain_beta_kubernetes_io_region="us-west1",failure_domain_beta_kubernetes_io_zone="us-west1-a",instance="gke-gke1-default-pool-8dc9a397-015e",job="kubelet",kubernetes_io_arch="amd64",kubernetes_io_hostname="gke-gke1-default-pool-8dc9a397-015e",kubernetes_io_os="linux",long_running="false",method="GET",node_kubernetes_io_instance_type="e2-standard-16",path="metrics/cadvisor",server_type="readwrite",topology_gke_io_zone="us-west1-a",topology_kubernetes_io_region="us-west1",topology_kubernetes_io_zone="us-west1-a"}	45

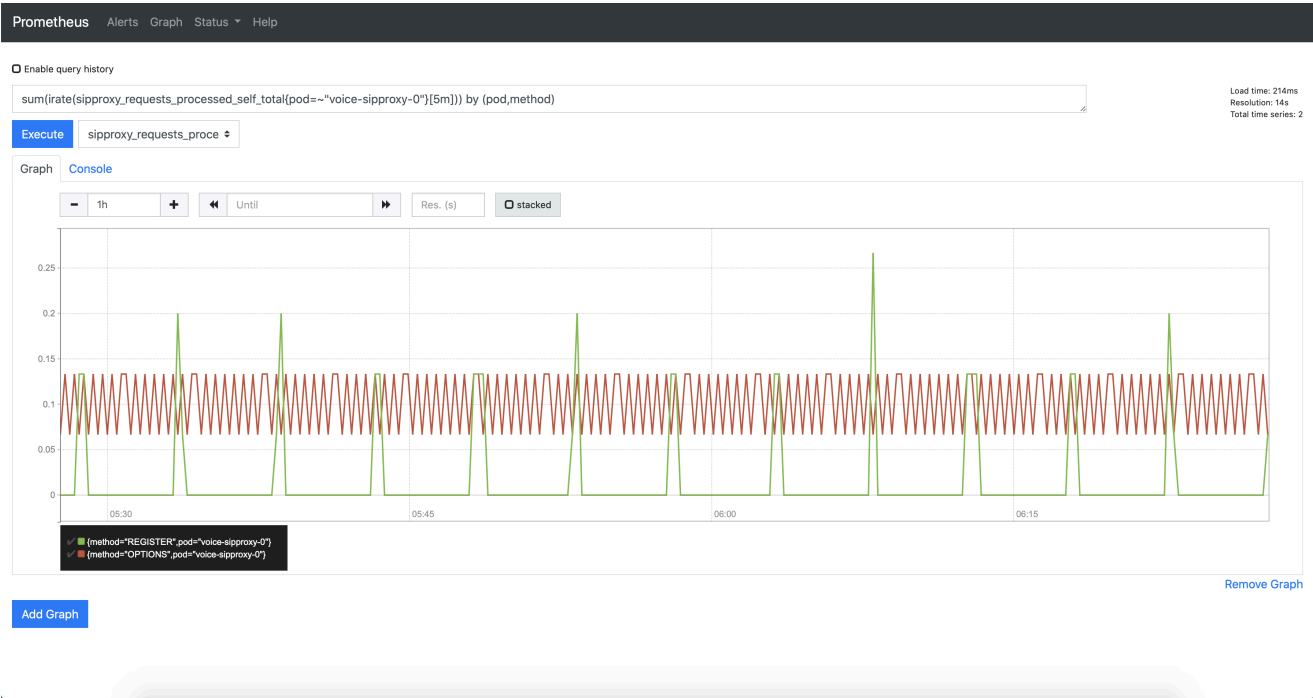
Query 2: `sum(irate(sipproxy_requests_processed_self_total{pod=~"voice-sipproxy-0"}[5m])) by (pod,method)`

Output

Graph:

Operations

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Console:

Prometheus Alerts Graph Status Help

☐ Enable query history

sum(rate(sipproxy_requests_processed_self_total[pod=~"voice-sipproxy-0"])[5m])) by (pod,method)

Execute sipproxy_requests_proce

Load time: 449ms
Resolution: 14s
Total time series: 2

Graph Console

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Element	Value
(method="OPTIONS",pod="voice-sipproxy-0")	0.06666666666666667
(method="REGISTER",pod="voice-sipproxy-0")	0

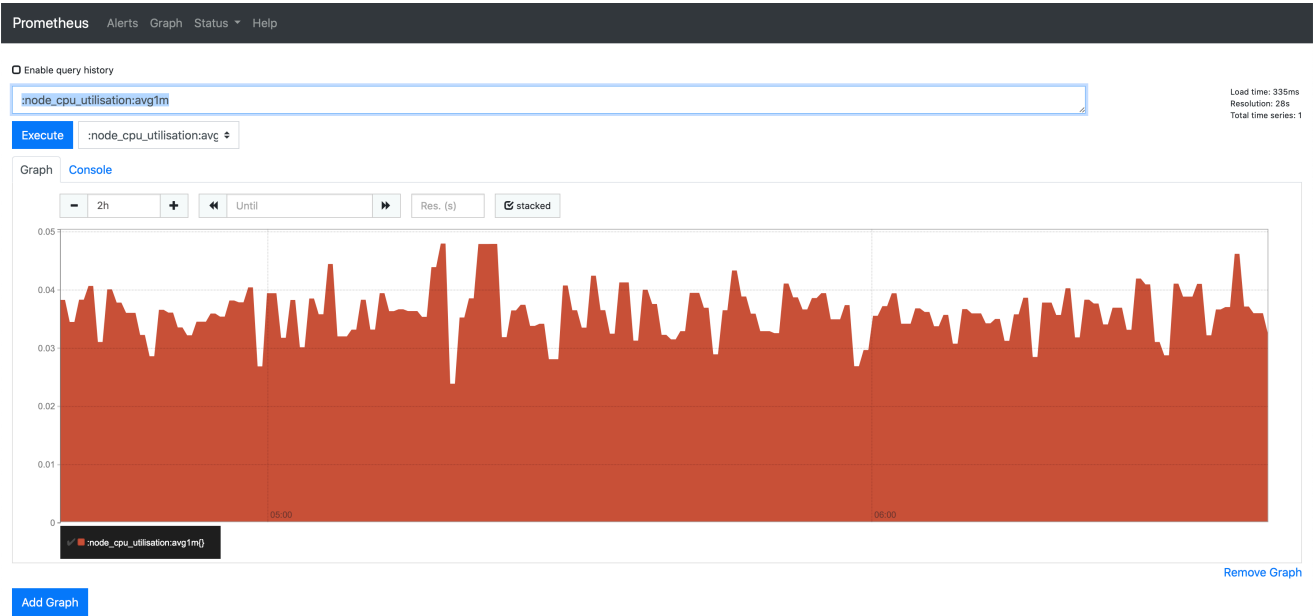
Remove Graph

Add Graph

Query 3: node_cpu_utilisation:avg1m

Output

Graph:



Console:

Prometheus

Alerts

Graph

Status

Help

☐ Enable query history

:node_cpu_utilisation:avg1m

Execute

:node_cpu_utilisation:avg

Load time: 211ms

Resolution: 28s

Total time series: 1

Graph

Console

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Element	Value
:node_cpu_utilisation:avg1m()	0.04255425367476107

Remove Graph

Add Graph