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Operations

Sample Prometheus queries

Sample Prometheus queries to collect metrics.

Related documentation:

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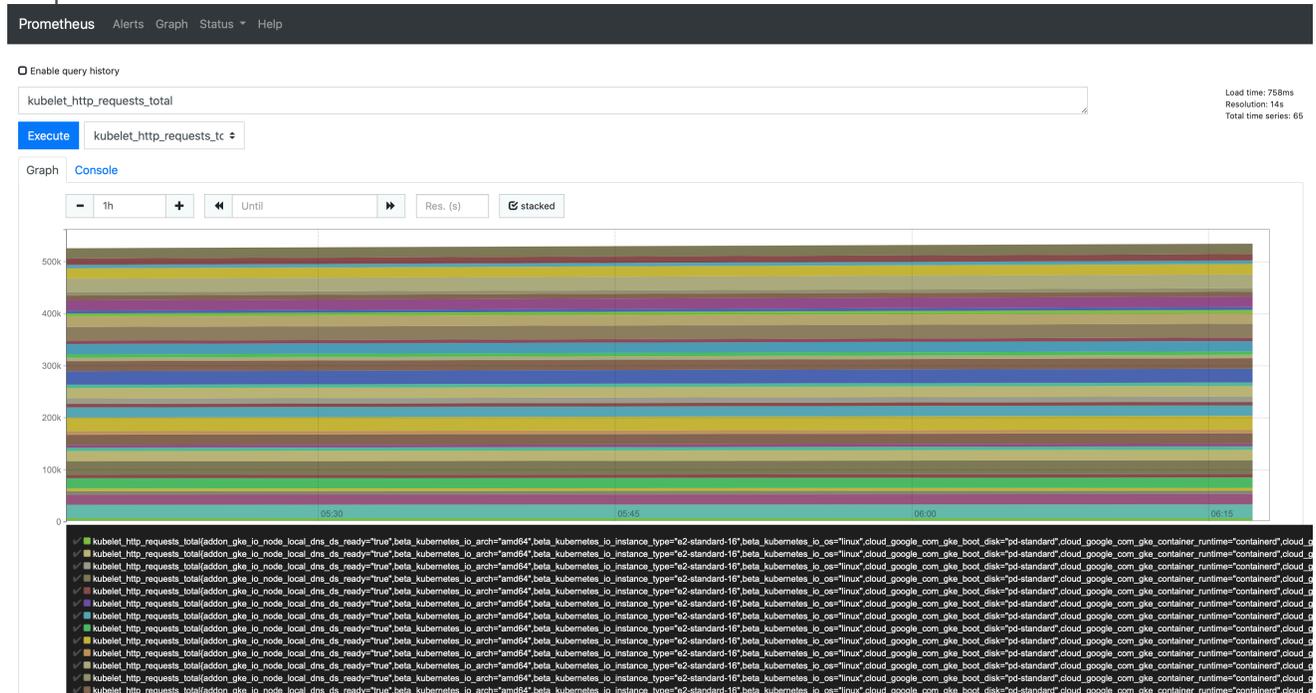
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Here are some sample Prometheus queries to collect metrics. The result of each query in Prometheus can either be shown as a graph or viewed as console output.

Query1: kubelet_http_requests_total

Output:

Graph



Console:

Enable query history

Load time: 758ms
Resolution: 14s
Total time series: 65

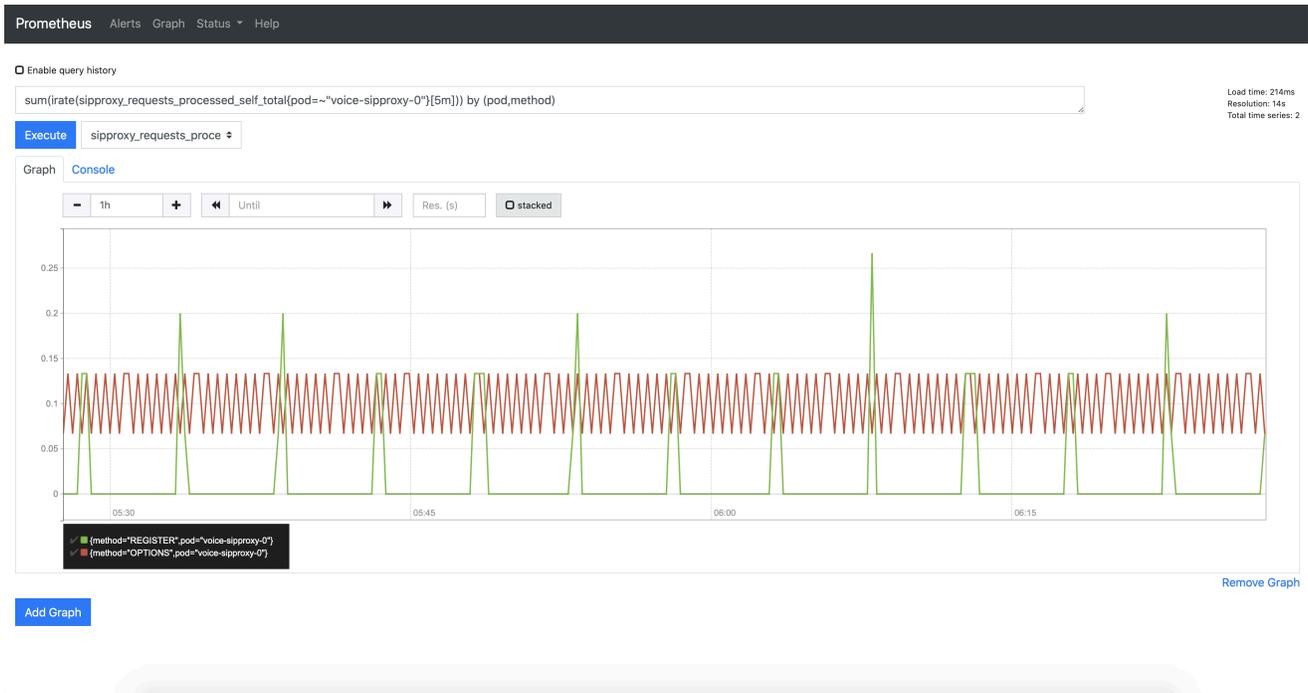
Graph Console

Element	Value
kubernetes_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="kubernetes",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="/container/logs",server_type="readwrite",topology_gke_io_zone="us-west1-a",topology_kubernetes_io_region="us-west1",topology_kubernetes_io_zone="us-west1-a"}	378
kubernetes_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="kubernetes",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
kubernetes_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="kubernetes",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
kubernetes_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="kubernetes",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
kubernetes_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="kubernetes",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"}	19910
kubernetes_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="kubernetes",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(sipproxys_requests_processed_self_total{pod=~"voice-sipproxys-0"}[5m])) by (pod,method)`

Output

Graph:



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

Moment

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

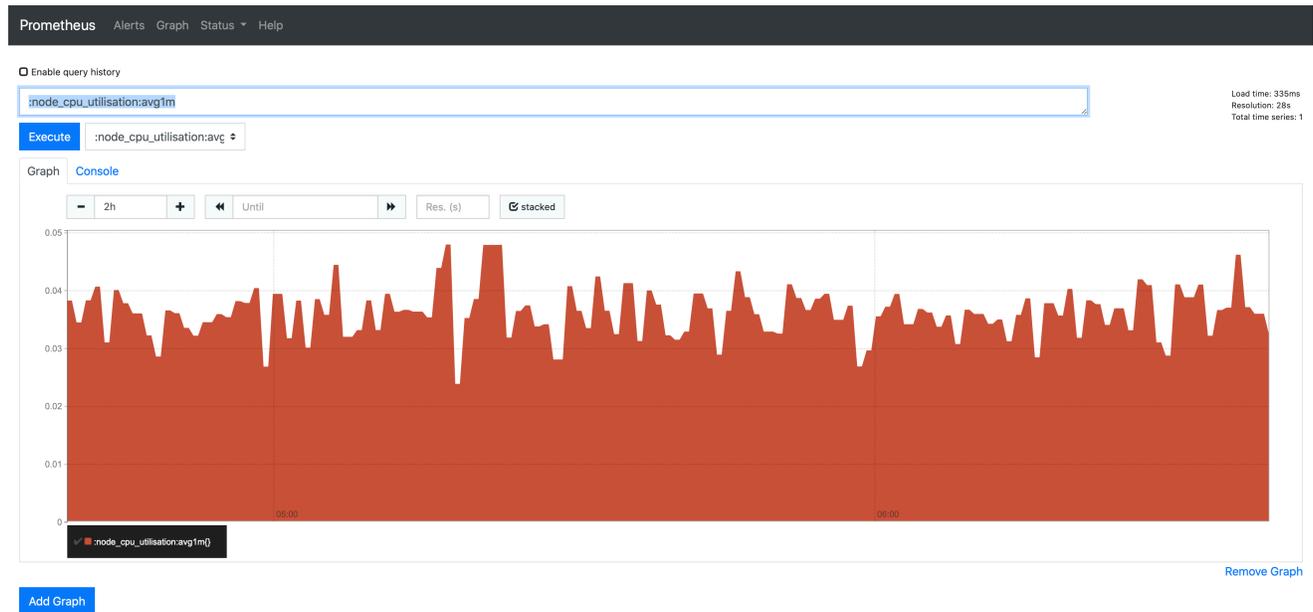
Remove Graph

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

Moment

Element	Value
<code>:node_cpu_utilisation:avg1m()</code>	0.04255425367476107

Remove Graph

Add Graph