# 1  CheatSheet: VMware Wavefront                                        VMware

- PDF Link: cheatsheet-wavefront-A4.pdf, Category: VMware

- Blog URL: `https://cheatsheet.dennyzhang.com/cheatsheet-wavefront-A4`

- Related posts: Prometheus CheatSheet, Nagios CheatSheet, #denny-cheatsheets

File me Issues or star this repo.

## 1.1  Wavefront Summary

| Name | Summary |
| --- | --- |
| Wavefront | SaaS monitoring. YouTube: Pivotal Container Service (PKS) and VMware Wavefront |
| wavefront trial portal | `https://try.wavefront.com/dashboard/tutorial-intro` |
| Wavefront PKS dashboard | `https://try.wavefront.com/dashboard/integration-pks` |
| Wavefront kubernetes collector | `https://github.com/wavefrontHQ/wavefront-kubernetes-collector`, docker hub image |
| Default Limits | ? alerts for each tenant; 10K point-per-seconds for each tenant |
| Whether need an agent | Link: Comparing Proxy and Direct Ingestion |
| Reference | `https://try.wavefront.com/api-docs/ui/` |

## 1.2  Wavefront Web UI

| Name | Summary |
| --- | --- |
| Explore wavefront metrics | `Browse -> Metrics` |
| Explore wavefront sources | `https://try.wavefront.com/source/<source-id>` |
| Sample Link | Wavefront sample link |

## 1.3  Wavefront container monitoring

| Name | Summary |
| --- | --- |
| Query cluster metrics | ts(pks.heapster.ns.cpu.request, cluster="wf-deployment-0-10-0-dev-23") |
| Query node metrics | ts(pks.heapster.node.cpu.usage, cluster="wf-deployment-0-10-0-dev-23") |
| Query pod metrics | ts(pks.heapster.pod.cpu.usage, cluster="wf-deployment-0-10-0-dev-23") |
| Query namespace metrics | ts(pks.heapster.ns.cpu.request, cluster="wf-deployment-0-10-0-dev-23" and $\text{namespace}_{name}$="kube-sy |
| Check pod cpu usage | count(lag(30s,ts("kubernetes.pod$_{container.cpu.usage}$", cluster=$"a_cluster" and namespace_name = "\{b_{nam}$ |
| Count running pods | sum(ts(pks.kube.pod.status.ready.gauge, condition=true and cluster="wf-deployment-0-10-0-dev-23" |
| List running pods | ts(pks.kube.pod.status.ready.gauge, condition=true and cluster="wf-deployment-0-10-0-dev-23") |
| List running containers | ts(pks.kube.pod.container.status.running.gaug, cluster="service-instance-e732626aXXX") |
| Sum | sum(ts(pks.kube.node.status.condition.gauge, condition=Ready and status=true and cluster="wf-de |

## 1.4  More Resources

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