

CheatSheet: Prometheus

KUBERNETES

- PDF Link: [cheatsheet-prometheus-A4.pdf](#), Category: [kubernetes](#)
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-prometheus-A4>
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1.1 Prometheus Basic

Name	Command
Config file	<code>/etc/prometheus/prometheus.yml</code>
Run Prometheus with docker	<code>docker run -p 9090:9090 prom/prometheus, http://localhost:9090</code>
Query metric by api, instead of GUI	<code>curl http://localhost:9090/api/v1/query?query=container_memory_usage_bytes</code>
List alerts	<code>curl http://localhost:9093/api/v1/alerts</code>

1.2 Kubernetes Metrics Targets & Samples

Name	Command	Sample Metrics
apiserver	<code>https://\protect\T1\textdollarapi_server:443/metrics</code>	
cadvisor	<code>http://\protect\T1\textdollarnode_ip:10255/metrics/cadvisor</code>	<code>cadvisor-sample.t</code>
node-exporter	<code>http://\protect\T1\textdollarnode_ip:9100/metrics</code>	<code>node-exporter-san</code>
kubelet	<code>http://\protect\T1\textdollarkubelet_ip:10255/metrics</code>	<code>kubelet-sample.tx</code>
kube-dns	<code>http://\protect\T1\textdollarkube_dns_addon_ip:10054/metrics</code>	<code>kube-dns-sample.</code>
kube-state-metrics http-metric	<code>http://\protect\T1\textdollarkube_state_metric_svc:8080/metrics</code>	<code>kube-state-metric</code>
kube-state-metrics telemetry	<code>http://\protect\T1\textdollarkube_state_metric_svc:8081/metrics</code>	<code>kube-state-metric</code>

<https://raw.githubusercontent.com/dennyzhang/cheatsheet.dennyzhang.com/master/cheatsheet-prometheus-A4/prometheus-deployment.png>

1.3 Prometheus Concepts

Name	Command
Job	
Instance	
Handler	
Target	
Rule	
Alertmanager	
Exporter	

1.4 Prometheus Components

Name	Command
OpenTSDB	The Scalable Time Series Database

<https://raw.githubusercontent.com/dennyzhang/cheatsheet.dennyzhang.com/master/cheatsheet-prometheus-A4/prometheus-workflow.png>

1.5 Prometheus Query

Name	Command
Reference	Link: query
Find metric by name+job+group	<code>somemetric{job="prometheus",group="canary"}</code>

1.6 Prometheus Aggregation

Name	Command
count	
sum	
min	
max	
counter	
avg	

1.7 More Resources

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