

# Alert Rules

## Rule List

| Group                   | Alert Name                     | Duration | Alert Condition  |
|-------------------------|--------------------------------|----------|--|
| Node(System)            | NodeDown                       | 2m       | up{component="node-exporter",job="kubernetes-monitoring-endpoints"   |
|                         | NodeCPUUsage                   | 2m       | (100 - (avg by (instance) (irate(node_cpu{component="node-exporter",m  |
|                         | NodeLoadAverage5               | 2m       | ((node_load5 / count without (cpu, mode) (node_cpu{mode="system"}))  |
|                         | NodeSwapUsage                  | 2m       | ((node_memory_SwapTotal-node_memory_SwapFree)/node_memory_S  |
|                         | NodeMemoryUsage                | 2m       | ((node_memory_MemTotal-node_memory_MemFree-node_memory_Ca<br>> 75  |
|                         | NodeLowRootDisk                | 30m      | ((node_filesystem_size{mountpoint="/" } - node_filesystem_free{mountpoi<br>node_filesystem_size{mountpoint="/" } * 100) > 75 |
| APIServer               | ApiserverDown                  | 2m       | up{job="kubernetes-apisservers"} == 0  |
|                         | APIServerLatencyHigh           | 10m      | rate(apiserver_request_count{code=~"^(?:5..)\$"}[5m]) / rate(apiserver_re  |
|                         | APIServerErrorsHigh            | 10m      | avg(apiserver_request_latencies_sum / apiserver_request_latencies_count  |
| kubelet                 | K8SNodeNotReady                | 2m       | kube_node_status_condition{condition="Ready",status="true"} == 0   |
|                         | K8SKubeletDown                 | 2m       | up{job="kubernetes-nodes"} == 0  |
|                         | K8SKubeletTooManyPods          | 10m      | kubelet_running_pod_count > 100  |
| ETCD                    | ETCD_Down                      | 2m       | up{job="etcd"} == 0  |
|                         | ETCD_NoLeader                  | 2m       | etcd_server_has_leader{job="etcd"} == 0  |
|                         | ETCD_InsufficientMembers       | 2m       | count(up{job="etcd"} == 0) > (count(up{job="etcd"}) / 2 - 1)   |
|                         | ETCD_HighNumberOfLeaderChanges | 2m       | increase(etcd_server_leader_changes_seen_total{job="etcd"}[1h]) > 3  |
| kube-state-metrics      | PodFrequentlyRestarting        | 10m      | increase(kube_pod_container_status_restarts_total[1h]) > 5   |
| Prometheus              | PrometheusConfigReloadFailed   | 10m      | Reloading Promehteus' configuration failed   |
|                         | PrometheusErrorSendingAlerts   | 10m      | Errors while sending alerts  |
| Alertmanager            | AlertmanagerFailedReload       | 10m      | alertmanager_config_last_reload_successful == 0  |
| component-up-monitoring | ZCPMonitoringDown              | 2m       | up{component=~"alertmanager blackbox-exporter grafana kube-state-me  |