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1 # Source: https://gist.github.com/838a3a716cd9eb3c1a539a8d404d2077
2
3 #####
4 # Using Loki To Store And Query Logs #
5 #####
6
7 #####
8 # Installing Loki, Grafana, Prometheus, And The Demo App #
9 #####
10
11 # Docker Desktop (docker-3gb-2cpu.sh):
12 https://gist.github.com/0fff4fe977b194f4e9208cde54c1aa3c
13 # Minikube (minikube.sh): https://gist.github.com/2a6e5ad588509f43baa94cbdf40d0d16
14 # GKE (gke-simple-ingress.sh):
15 https://gist.github.com/925653c9fbf8cce23c35eedcd57de86e
16 # EKS (eks-simple-ingress.sh):
17 https://gist.github.com/2fc8fa1b7c6ca6b3fefafe78078b6006
18 # AKS (aks-simple-ingress.sh):
19 https://gist.github.com/e24b00a29c66d5478b4054065d9ea156
20
21 git clone \
22     https://github.com/vfarcic/devops-catalog-code.git
23
24 cd devops-catalog-code
25
26 git pull
27
28 cd monitoring
29
30 kubectl create namespace monitoring
31
32 helm repo add loki \
33     https://grafana.github.io/loki/charts
34
35 helm repo update
36
37 helm upgrade --install \
38     loki loki/loki-stack \
39     --namespace monitoring \
40     --version 0.40.0 \
41     --wait
42
43 cat grafana-loki.yaml
44
45 helm repo add stable \
46     https://kubernetes-charts.storage.googleapis.com
47
48 helm upgrade --install \
49     grafana stable/grafana \
50     --namespace monitoring \
51     --version 5.5.5 \
52     --values grafana-loki.yaml \
53     --set ingress.hosts="{grafana.$INGRESS_HOST.xip.io}" \
54     --wait
55
56 helm upgrade --install \
57     prometheus stable/prometheus \
58     --namespace monitoring \
59     --version 11.12.0 \
60     --wait
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57
58 kubectl --namespace monitoring get pods
59
60 cd ../helm
61
62 helm repo add bitnami \
63     https://charts.bitnami.com/bitnami
64
65 helm dependency update go-demo-9
66
67 kubectl create namespace production
68
69 helm upgrade --install \
70     go-demo-9 go-demo-9 \
71     --namespace production \
72     --wait \
73     --timeout 10m
74
75 curl -H "Host: go-demo-9.acme.com" \
76     "http://$INGRESS_HOST"
77
78 #####
79 # Playing With The Loki Stack #
80 #####
81
82 open http://grafana.$INGRESS_HOST.xip.io/explore
83
84 kubectl --namespace monitoring \
85     get secret grafana \
86     --output jsonpath="{.data.admin-password}" \
87     | base64 --decode ; echo
88
89 # Query (uncomment)
90 # {job="production/go-demo-9-go-demo-9"}
91
92 # Query (uncomment)
93 # {job="production/go-demo-9-go-demo-9"} != "GET request to /"
94
95 #####
96 # Exploring Loki Query Syntax #
97 #####
98
99 # Query (uncomment)
100 # {job="production/go-demo-9-go-demo-9"} != "GET request to /"
101
102 # Query (uncomment)
103 # {job="kube-system/nginx-ingress-controller"} != "example.com" != "200"
104
105 open http://grafana.$INGRESS_HOST.xip.io/dashboard/new
106
107 # Query (uncomment)
108 # topk(10, sum(rate({job=~".+"}[5m])) by (job))
109
110 # Query (uncomment)
111 # topk(10, sum(rate({namespace!="kube-system"}[5m])) by (job))
112
113 # Query (uncomment)
114 # topk(10, sum(rate(({namespace!="kube-system"} != "error")[5m])) by (job))
115
116 open http://grafana.$INGRESS_HOST.xip.io/explore
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117
118 # Query (uncomment)
119 # {job="production/go-demo-9-go-demo-9"} |= "ERROR"
120
121 # Query (uncomment)
122 # sum(rate(http_server_resp_time_count[2m])) by(path)
123
124 export ADDR=http://go-demo-9-go-demo-9.production/demo/hello
125
126 kubectl run siege \
127     --image yokogawa/siege \
128     --generator run-pod/v1 \
129     -it --rm \
130     -- --concurrent 10 --time 30S "$ADDR"
131
132 export ADDR=http://go-demo-9-go-demo-9.production/demo/random-error
133
134 kubectl run siege \
135     --image yokogawa/siege \
136     --generator run-pod/v1 \
137     -it --rm \
138     -- --concurrent 10 --time 30S "$ADDR"
139
140 #####
141 # Destroying The Resources #
142 #####
143
144 helm --namespace monitoring \
145     delete grafana loki prometheus
146
147 helm --namespace production \
148     delete go-demo-9
149
150 kubectl delete namespace monitoring
151
152 kubectl delete namespace production
153
154 cd ../../
155
```