

```
1 # Source: https://gist.github.com/ae00efa6892fcb0b295bbdba73bef3ad
2
3 #####
4 # Applying GitOps Principles Using Argo CD #
5 #####
6
7 #####
8 # Installing And Configuring Argo CD #
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 # Only if macOS
29 brew tap argoproj/tap
30
31 # Only if macOS
32 brew install argoproj/tap/argocd
33
34 # Only if Linux or WSL
35 VERSION=$(curl --silent \
36   "https://api.github.com/repos/argoproj/argo-cd/releases/latest" \
37   | grep '"tag_name"' \
38   | sed -E 's/.*"([^\"]+)"\.*/\1/')
39
40 # Only if Linux or WSL
41 sudo curl -sSL -o /usr/local/bin/argocd \
42   https://github.com/argoproj/argo-cd/releases/download/$VERSION/argocd-linux-amd64
43
44 # Only if Linux or WSL
45 sudo chmod +x /usr/local/bin/argocd
46
47 kubectl create namespace argocd
48
49 helm repo add argo \
50   https://argoproj.github.io/argo-helm
51
52 cat argo/argocd-values.yaml
53
54 helm upgrade --install \
55   argocd argo/argo-cd \
56   --namespace argocd \
57   --version 2.8.0 \
58   --set server.ingress.hosts="{argocd.$INGRESS_HOST.xip.io}" \
59   --values argo/argocd-values.yaml \
60   --wait
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57
58 export PASS=$(kubectl --namespace argocd \
59     get pods \
60     --selector app.kubernetes.io/name=argocd-server \
61     --output name \
62     | cut -d '/' -f 2)
63
64 argocd login \
65     --insecure \
66     --username admin \
67     --password $PASS \
68     --grpc-web \
69     argocd.$INGRESS_HOST.xip.io
70
71 echo $PASS
72
73 argocd account update-password
74
75 open http://argocd.$INGRESS_HOST.xip.io
76
77 kubectl --namespace argocd get pods
78
79 cd ../
80
81 #####
82 # Deploying An Application With Argo CD #
83 #####
84
85 git clone \
86     https://github.com/vfarcic/devops-toolkit.git
87
88 cd devops-toolkit
89
90 ls -1 k8s
91
92 kubectl create namespace devops-toolkit
93
94 argocd app create devops-toolkit \
95     --repo https://github.com/vfarcic/devops-toolkit.git \
96     --path k8s \
97     --dest-server https://kubernetes.default.svc \
98     --dest-namespace devops-toolkit
99
100 open http://argocd.$INGRESS_HOST.xip.io
101
102 kubectl --namespace devops-toolkit \
103     get all
104
105 argocd app delete devops-toolkit
106
107 open http://argocd.$INGRESS_HOST.xip.io
108
109 kubectl --namespace devops-toolkit \
110     get all
111
112 kubectl delete namespace devops-toolkit
113
114 ls -1 helm
115
116 cd ..
```

```
117
118 #####
119 # Defining Whole Environments #
120 #####
121
122 open https://github.com/vfarcic/argocd-production
123
124 # Replace `[...]` with the GitHub organization
125 export GH_ORG=[...]
126
127 git clone \
128     https://github.com/$GH_ORG/argocd-production.git
129
130 cd argocd-production
131
132 cat project.yaml
133
134 kubectl apply \
135     --filename project.yaml
136
137 kubectl --namespace argocd \
138     get appprojects
139
140 open http://argocd.$INGRESS_HOST.xip.io/settings/projects
141
142 kubectl create namespace production
143
144 ls -l helm
145
146 ls -l helm/templates
147
148 cat helm/templates/devops-toolkit.yaml
149
150 cat helm/templates/devops-paradox.yaml
151
152 cat apps.yaml
153
154 cat apps.yaml \
155     | sed -e "s@vfarcic@$GH_ORG@g" \
156     | tee apps.yaml
157
158 git add .
159
160 git commit -m "Changed the org"
161
162 git push
163
164 kubectl --namespace argocd apply \
165     --filename apps.yaml
166
167 open http://argocd.$INGRESS_HOST.xip.io
168
169 kubectl --namespace production get all
170
171 kubectl --namespace production get ingresses
172
173 #####
174 # Updating Applications Through GitOps Principles #
175 #####
176
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```
177 cat helm/templates/devops-toolkit.yaml \
178     | sed -e "s@latest@2.9.17@g" \
179     | sed -e "s@devopstoolkitseries.com@devops-toolkit.$INGRESS_HOST.xip.io@g" \
180     | tee helm/templates/devops-toolkit.yaml
181
182 git add .
183
184 git commit -m "New release"
185
186 git push
187
188 kubectl --namespace production get \
189     deployment devops-toolkit-devops-toolkit \
190     --output jsonpath="{.spec.template.spec.containers[0].image}"
191
192 kubectl --namespace production get \
193     deployment devops-toolkit-devops-toolkit \
194     --output jsonpath="{.spec.template.spec.containers[0].image}"
195
196 kubectl --namespace production get ingresses
197
198 open http://devops-toolkit.$INGRESS_HOST.xip.io
199
200 rm helm/templates/devops-paradox.yaml
201
202 git add .
203
204 git commit -m "Removed DOP"
205
206 git push
207
208 open http://argocd.$INGRESS_HOST.xip.io
209
210 kubectl --namespace production get pods
211
212 #####
213 # Destroying The Resources #
214 #####
215
216 kubectl delete namespace argocd
217
218 kubectl delete namespace production
219
220 cd ..
221
```