

ArgoCD

February 19, 2025



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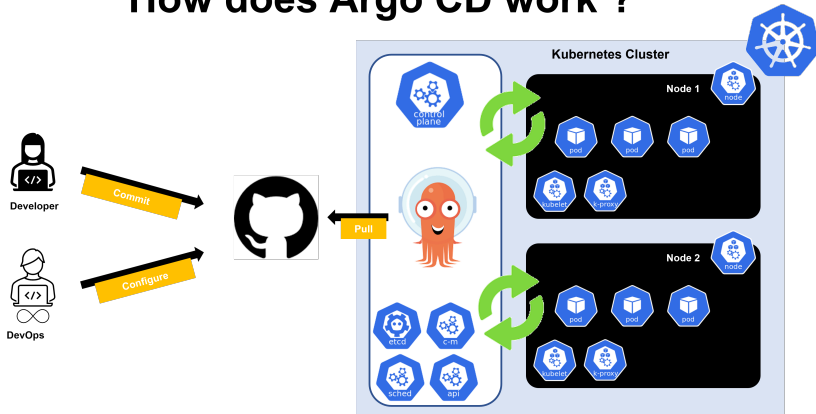
What?

ArgoCD is a **declarative**, **GitOps**-based continuous delivery tool for Kubernetes.

How?

- 1 Monitors Git repo for changes
- 2 Compare against current state
- 3 If difference → drift

How does Argo CD work ?



UI: <https://argocd.justwatch.com>

The screenshot displays the ArgoCD web interface. The left sidebar contains navigation links: Applications, Settings, User Info, and Documentation. Below these are sections for Favorites Only, SYNC STATUS (with a CLEAR button), HEALTH STATUS, LABELS, and PROJECTS. The main content area, titled 'Applications', shows a grid of application cards. Each card displays the application name, project, labels, status, repository, target revision, path, destination, namespace, creation time, and last sync time. Action buttons (SYNC, REFRESH, DELETE) are at the bottom of each card.

Applications

APPLICATIONS TILES

Log out

Sort: name ▾ Items per page: all ▾

argocd-applications

Project: default
Labels: app.kubernetes.io/managed-by=argocd, app.ku...
Status: Healthy OutOfSync
Repository: git@github.com:justwatch/jw-k8s.git
Target Revi...: HEAD
Path: clusters/jw-k8s-prod-eu-2/applications/
Destination: in-cluster
Namespace: argocd
Created At: 03/21/2024 11:06:27 (a year ago)
Last Sync: 01/22/2025 01:00:42 (a month ago)

prod.1password.operator

Project: default
Labels: argocd.argoproj.io/instance=argocd-applications
Status: Healthy OutOfSync
Repository: git@github.com:justwatch/jw-k8s.git
Target Revi...: HEAD
Path: prod/1password
Destination: in-cluster
Namespace: 1password
Created At: 03/19/2024 12:06:58 (a year ago)
Last Sync: 03/28/2024 09:20:50 (a year ago)

prod.elasticsearch-8.cluster

Project: default
Labels: managed-by=argocd
Status: Healthy OutOfSync
Repository: git@github.com:justwatch/jw-k8s.git
Target Revi...: HEAD
Path: prod/elasticsearch-8/cluster
Destination: in-cluster
Namespace: elasticsearch-8
Created At: 03/19/2024 12:46:59 (a year ago)
Last Sync: 10/04/2024 12:31:50 (4 months ago)

prod.infra.gcp-quota-exporter

Project: default
Labels: managed-by=argocd
Status: Healthy OutOfSync
Repository: git@github.com:justwatch/jw-k8s.git
Target Revi...: HEAD
Path: prod/infra/gcp-quota-exporter
Destination: in-cluster
Namespace: infra
Created At: 03/25/2024 12:05:03 (a year ago)
Last Sync: 03/25/2024 12:06:02 (a year ago)

prod.infra.github-actions-exporter

Project: default
Labels: managed-by=argocd
Status: Healthy OutOfSync
Repository: git@github.com:justwatch/jw-k8s.git
Target Revi...: HEAD
Path: prod/infra/github-actions-exporter
Destination: in-cluster
Namespace: infra
Created At: 03/25/2024 12:05:03 (a year ago)
Last Sync: 03/25/2024 12:06:04 (a year ago)

prod.infra.jw-steward

Project: default
Labels: managed-by=argocd
Status: Healthy OutOfSync
Repository: git@github.com:justwatch/jw-k8s.git
Target Revi...: HEAD
Path: prod/infra/jw-steward
Destination: in-cluster
Namespace: infra
Created At: 03/25/2024 13:10:59 (a year ago)
Last Sync: 03/25/2024 13:17:46 (a year ago)

Collection of resources that are managed together

```
● ● ● appset-infra-chatops.yaml
apiVersion: argoproj.io/v1alpha1
kind: ApplicationSet
metadata:
  annotations:
    argocd.argoproj.io/sync-wave: "4"
  name: infra-chatops
  namespace: argocd
spec:
  generators:
  - git:
      repoURL: git@github.com:justwatch/jw-k8s.git
      revision: HEAD
      directories:
      - path: prod/infra/jeeves
      - path: prod/infra/jw-bob
      - path: prod/infra/jw-steward
      - path: prod/infra/jw-slack-automation-worker
      - path: prod/infra/jw-automation-worker
      - path: prod/infra/jw-automation-worker-receiver
      - path: prod/infra/jw-automation-worker-cron
      - path: prod/infra/jw-automation-worker-beta
      - path: prod/infra/jw-automation-worker-receiver-beta
      - path: prod/infra/jw-automation-worker-cron-beta
```

Why?

- Keep up with changes
- Track changes in git history
- Prevent undesired side effects
- Reproducible environments