

ArgoCD

February 20, 2025



1 What?

2 How?

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What?

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

How?

- ① Monitors Git repo for changes

How?

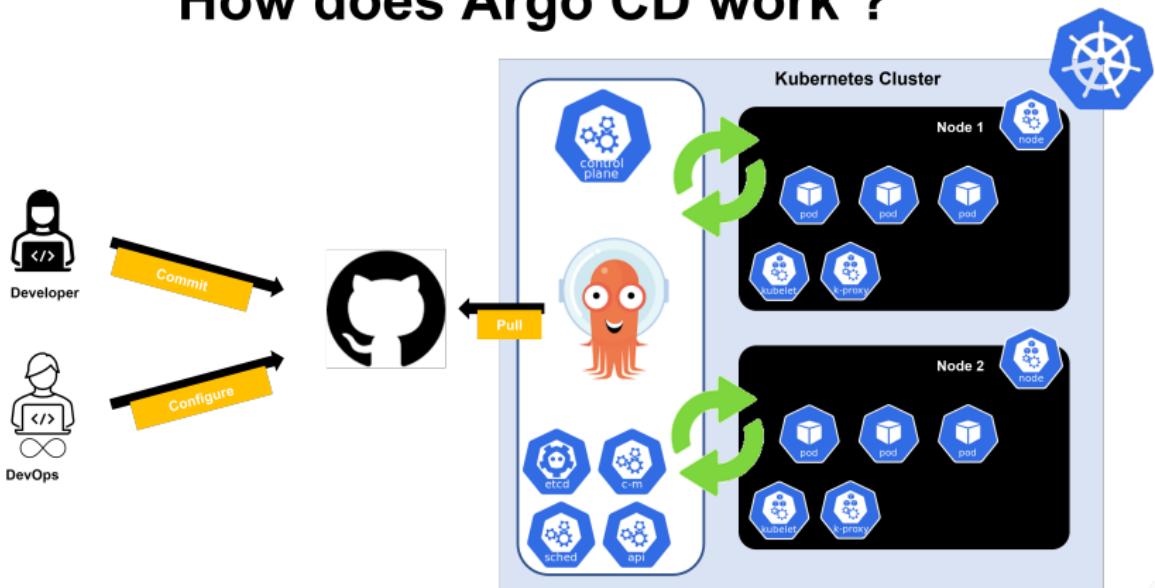
- ① Monitors Git repo for changes
- ② Compare against current state

How?

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

How?

How does Argo CD work ?



How?

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

The screenshot shows the ArgoCD web interface with the URL <https://argocd.justwatch.com>. The left sidebar includes links for Applications, Settings, User Info, Documentation, Favorites Only, SYNC STATUS, and HEALTH STATUS. The main content area displays six application cards in a grid:

- argocd-applications**
 - Project: default
 - Labels: app.kubernetes.io/managed-by=argocd, app.k...
 - Status: Healthy OutOfSync
 - Repository: git@github.com:justwatch/jw-k8s.git
 - Target Rev.: 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)

SYNC **REFRESH** **DELETE**
- prod.1password.operator**
 - Project: default
 - Labels: argocd.argoproj.io/instance=argocd-applications
 - Status: Healthy OutOfSync
 - Repository: git@github.com:justwatch/jw-k8s.git
 - Target Rev.: 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)

SYNC **REFRESH** **DELETE**
- prod.elasticsearch-8.cluster**
 - Project: default
 - Labels: managed-by=argocd
 - Status: Healthy OutOfSync
 - Repository: git@github.com:justwatch/jw-k8s.git
 - Target Rev.: 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)

SYNC **REFRESH** **DELETE**
- prod.infra.gcp-quota-exporter**
 - Project: default
 - Labels: managed-by=argocd
 - Status: Healthy OutOfSync
 - Repository: git@github.com:justwatch/jw-k8s.git
 - Target Rev.: 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)

SYNC **REFRESH** **DELETE**
- prod.infra.github-actions-exporter**
 - Project: default
 - Labels: managed-by=argocd
 - Status: Healthy OutOfSync
 - Repository: git@github.com:justwatch/jw-k8s.git
 - Target Rev.: 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)

SYNC **REFRESH** **DELETE**
- prod.infra.jw-steward**
 - Project: default
 - Labels: managed-by=argocd
 - Status: Healthy OutOfSync
 - Repository: git@github.com:justwatch/jw-k8s.git
 - Target Rev.: 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)

SYNC **REFRESH** **DELETE**

Applications

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

Why?

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- Track changes in git history

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- Prevent undesired side effects

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