

ArgoCD

February 19, 2025



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What?

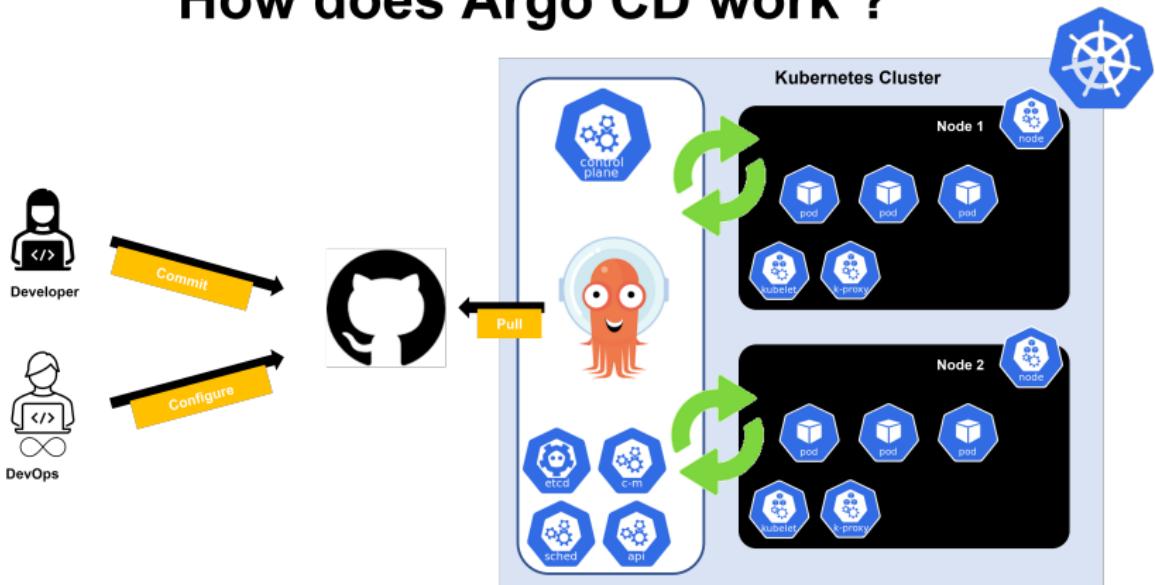
ArgoCD is a **declarative**, **GitOps**-based continuous delivery tool for Kubernetes.

How?

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

How?

How does Argo CD work ?



How?

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

The screenshot shows the ArgoCD web interface with several application cards displayed. The sidebar on the left includes links for Applications, Settings, User Info, Documentation, Favorites Only, SYNC STATUS, and HEALTH STATUS. The main area displays six application cards:

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