

ArgoCD

- Argo CD is implemented as a Kubernetes controller which continuously monitors running applications and compares the current, live state against the desired target state (as specified in the Git repo).
 - It automates the deployment of the desired application states in the specified target environments.
 - Any modifications made to the desired target state in the Git repo can be automatically applied and reflected in the specified target environments.
 - A deployed application whose live state deviates from the target state is considered OutOfSync.
 - Argo CD reports & visualizes the differences, while providing facilities to automatically or manually sync the live state back to the desired target state.
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Features of ArgoCD

- ArgoCD works on **Pulling** mechanism.
 - No need to give cluster access to every team member as manifests files are applied by ArgoCD thus enhancing security.
 - Even if team member applies any changes manually, ArgoCD will override it to match **GitHub state as a desired state** thus keeping **GitHub as a single source of truth**.
 - Also has functionality to rollback to previous commits if necessary.
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Installation and Steps to login

Follow this [link](#) to install argo cd in the cluster.

Application file

- Click on [application.yml](#) for ArgoCD template.
 - If the Git repository is private, create a secret containing GitHub Username and GitHub Password. Click [secret.yml](#) for reference.
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