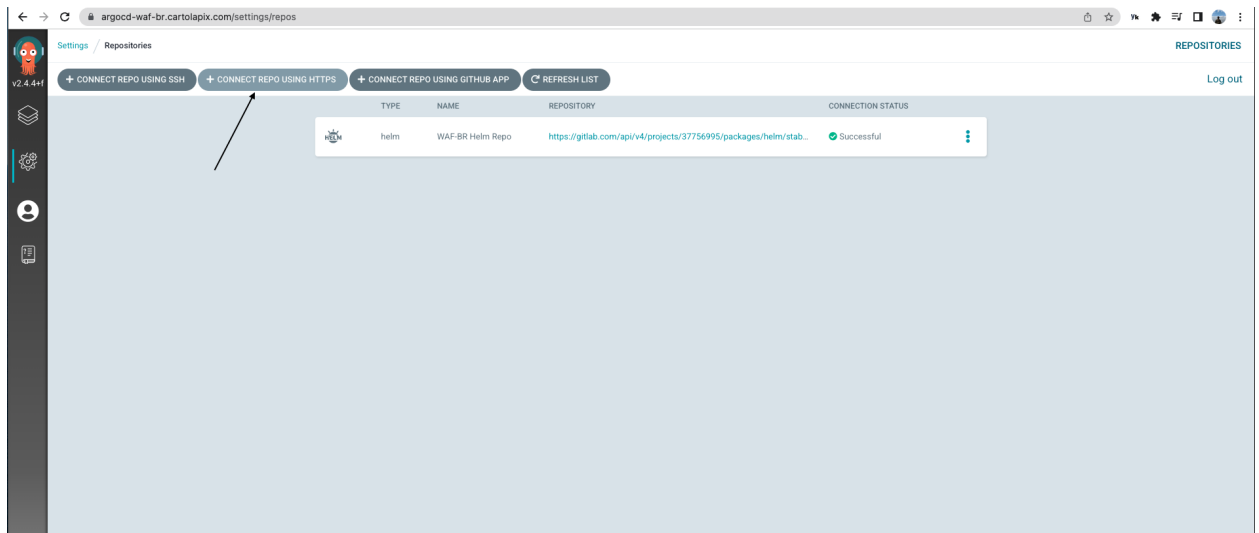
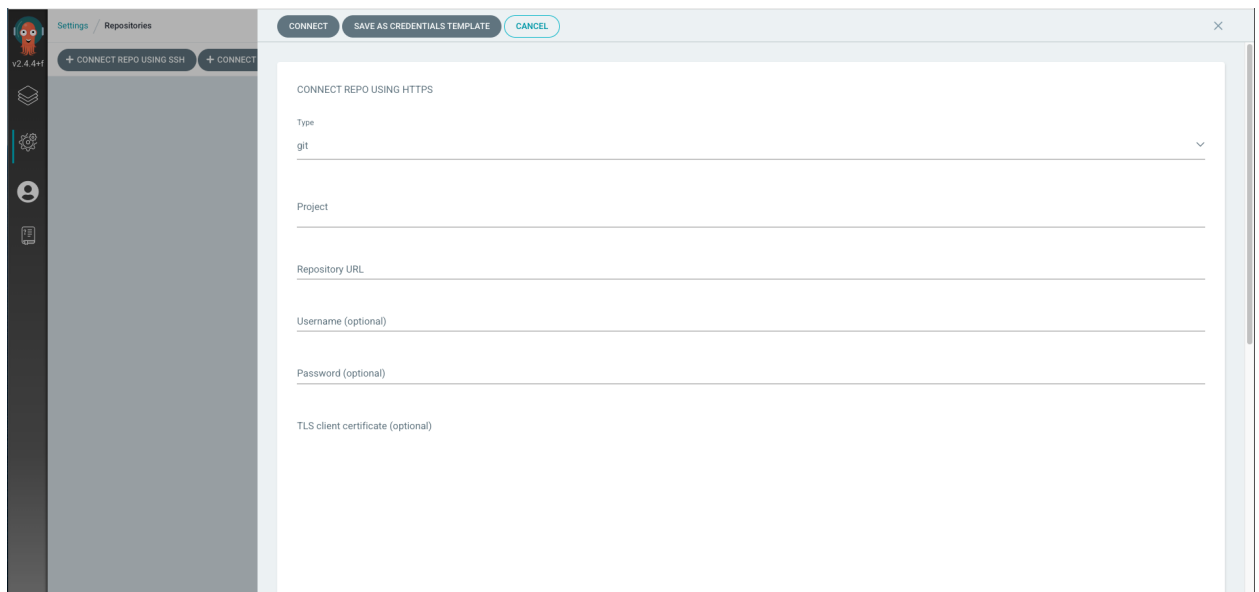


- 1) Add a Repo :- We can add either Git Repo or Helm repo as our desired code for our application.



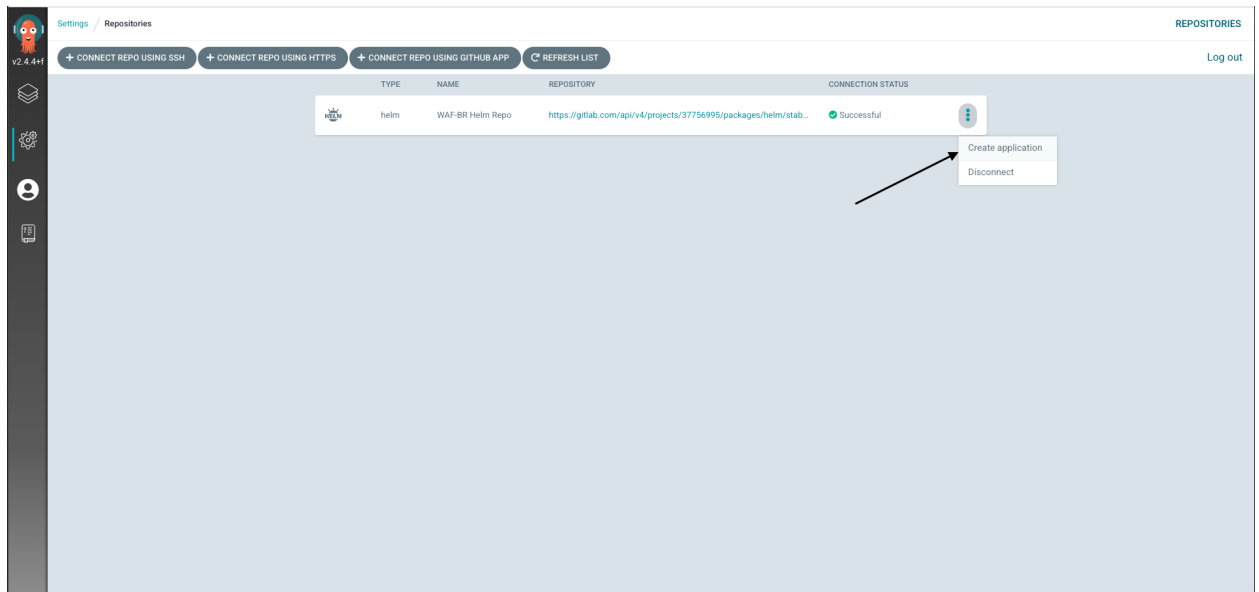
We can connect our repo either by ssh or by https.



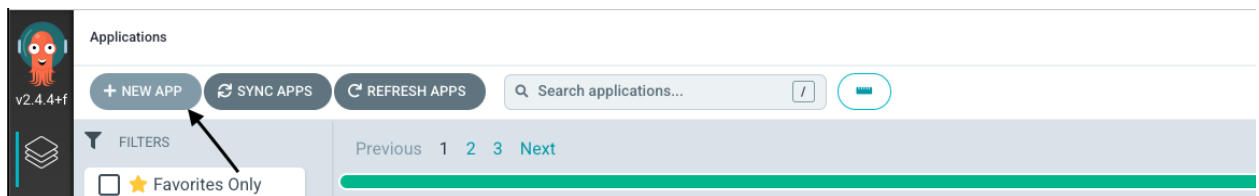
After that we need to select the type of our repo (Git / helm), add project name, add repo url (if the repo is private then add username and password). Now we can click on connect and our repo will be added.

Note :- These steps are to add git repo, for helm repo we need to make a few more changes.

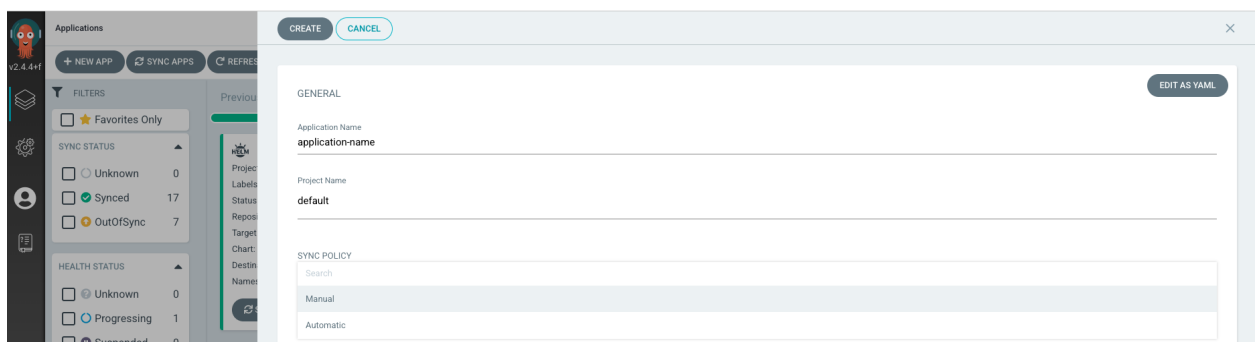
2) We can create applications by 2 ways using web-ui, either directly from the repo,



Or from the Main page.



Now create an application



Add application name, project name, and select sync policy.

Sync policy : Argo CD has the ability to automatically sync an application when it detects differences between the desired manifests in Git or in helm, and the live state in the cluster.

In Auto-sync there are two things which need to be taken care of 1) PRUNE RESOURCES 2) SELF HEAL.

- PRUNE RESOURCES : By default (and as a safety mechanism), automated sync will not delete resources when Argo CD detects the resource is no longer defined in Git.
- SELF HEAL : By default, changes that are made to the live cluster will not trigger automated sync. To enable automatic sync when the live cluster's state deviates from the state defined in Git.

We can set this sync policy to manual as well, this can be done when we want to check every time before making any changes in our live cluster.

In manual sync argocd will change the state of our application to outofsync, which means that there is some difference between desired manifests and our cluster.

The screenshot shows the Argo CD web interface. On the left sidebar, the 'HEALTH STATUS' section is expanded, showing a list of application health states: Synced (17), OutOfSync (7), Unknown (0), Progressing (1), Suspended (0), Healthy (23), Degraded (0), and Missing (0). The main content area is titled 'SOURCE' and contains the following fields: 'Repository URL' with a dropdown menu set to 'GIT', 'Revision' with a dropdown menu set to 'HEAD', and 'Path'.

Add Repo url (which is already already added), and path.

The screenshot shows the Argo CD web interface. On the left sidebar, the 'SYNC STATUS' section is expanded, showing a list of application sync states: Unknown (0), Synced (17), and OutOfSync (7). The main content area is titled 'DESTINATION' and contains the following fields: 'Cluster URL' with a dropdown menu set to 'URL', 'Namespace', and 'Directory' with a dropdown menu. Below these fields, there is a section titled 'DIRECTORY' with a checkbox labeled 'DIRECTORY RECURSE'.

Add cluster url (which is already already added), and namespace.

To track subdirectories in a specified path we need to enable DIRECTORY RECURSE.

Now create Application.

