1. Create a git repository and commit our yaml files.
2. git add .

A black screen with many small squares

Description automatically generated with medium confidence

1. git commit -m "initial commit"

A black screen with white text

Description automatically generated

1. git push

A computer screen shot of a black background

Description automatically generated

1. Repository URL :-

<https://github.com/shahnoorbaga/ICA5.git>

1. Use the same Wordpress stack with Nginx reverse proxy we used before
2. Create [**helm charts**](https://moodle.cestarcollege.com/moodle/mod/resource/view.php?id=1737841) (including templates for deployments, service, configmap, secrets, etc.) for each component for this stack (Nginx proxy, Wordpress app & Database)
3. Set up a **GitOps tool** (Argo CD) to manage automatic deployment of each component
4. Deploy argocd on GKE cluster with below command

*kubectl apply -n argocd -f install.yaml*

A screen shot of a computer program

Description automatically generated

1. Use the external service IP to open frontend of argocd server

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1. Retrieve admin credentials with below command



1. Login to argocd with retrieved credentials

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1. Go to settings - > Repository -> Connect Repo

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Description automatically generated

1. Provide repository URL and set project as default and click on connect

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1. Deploy the application into a Kubernetes cluster using GitOps
2. Application deployed using ArgoCD

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1. Demonstrate the automatic deployment via a Git commits to your K8s manifests (say updating the deployment with a new image tag)
2. Application deployed using git commit

A screenshot of a computer

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