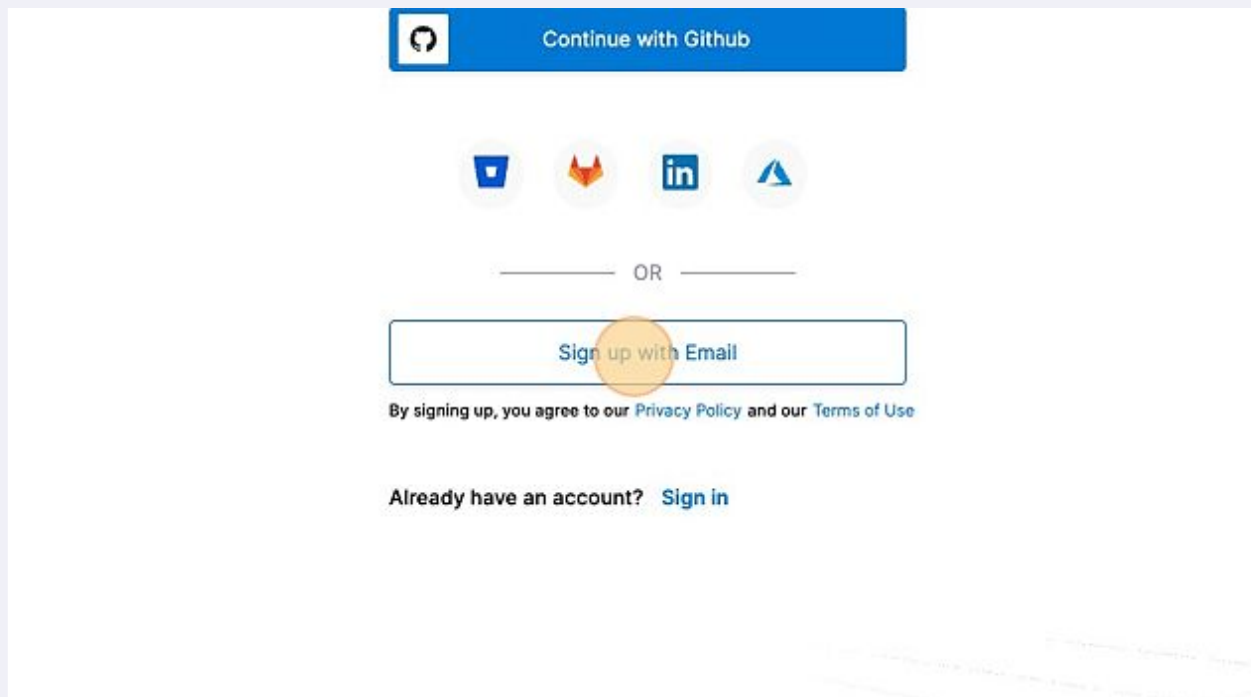


Setting up a Harness Deployment Pipeline: A Visual Step-by-Step Guide

1 Navigate to app.harness.io/auth/#/signup/?module=cd

2 Click "Sign up with Email"



3 Enter Email and Password. Click "Sign up"

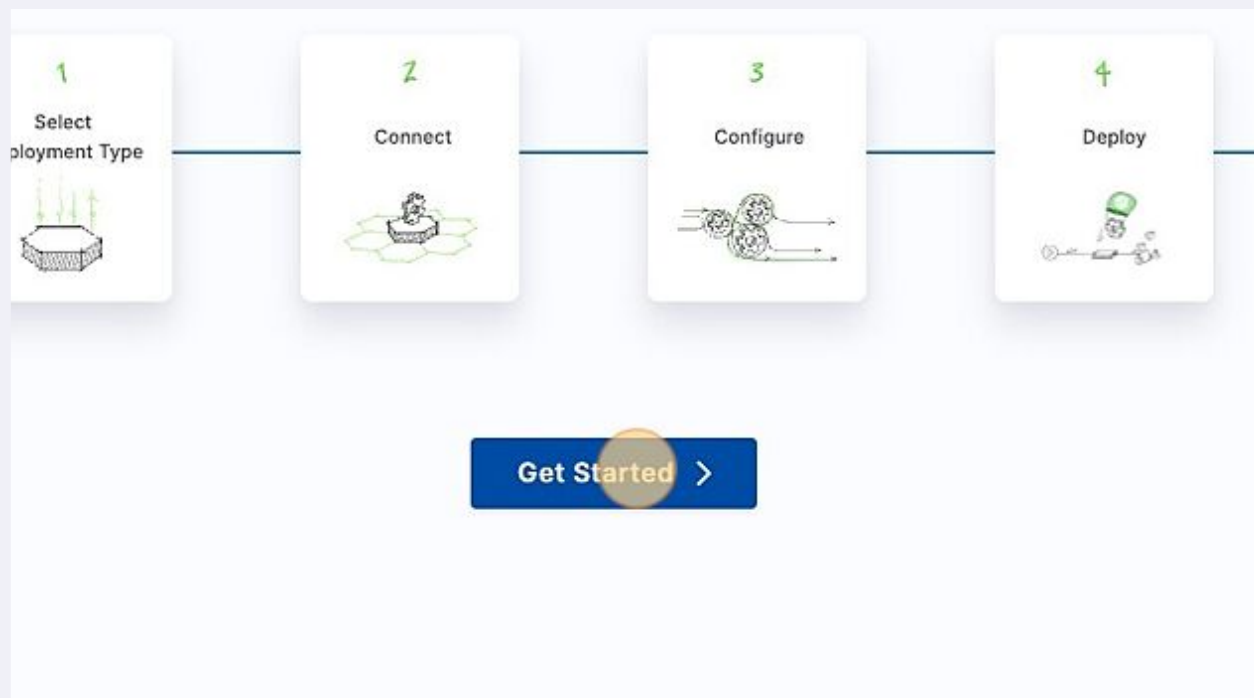
The screenshot shows a sign-up form with the following elements:

- Email:** A text input field containing the email address "ompragash+cdguide@harness.io".
- Password:** A password input field with masked characters (dots) and a toggle icon for visibility.
- Sign up:** A blue button with the text "Sign up". A yellow circle highlights this button.
- Agreement:** Text stating "By signing up, you agree to our [Privacy Policy](#) and our [Terms of Use](#)".
- Sign in:** Text stating "Already have an account? [Sign in](#)".

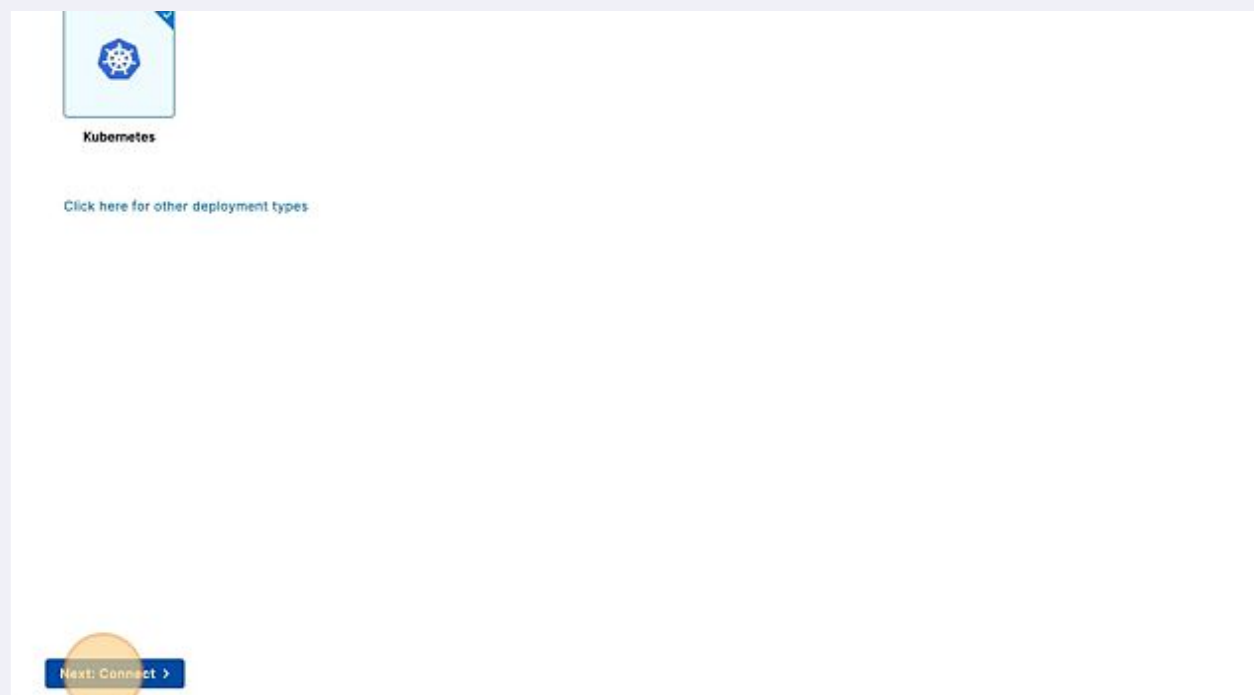
4 Verify your Email address and then continue

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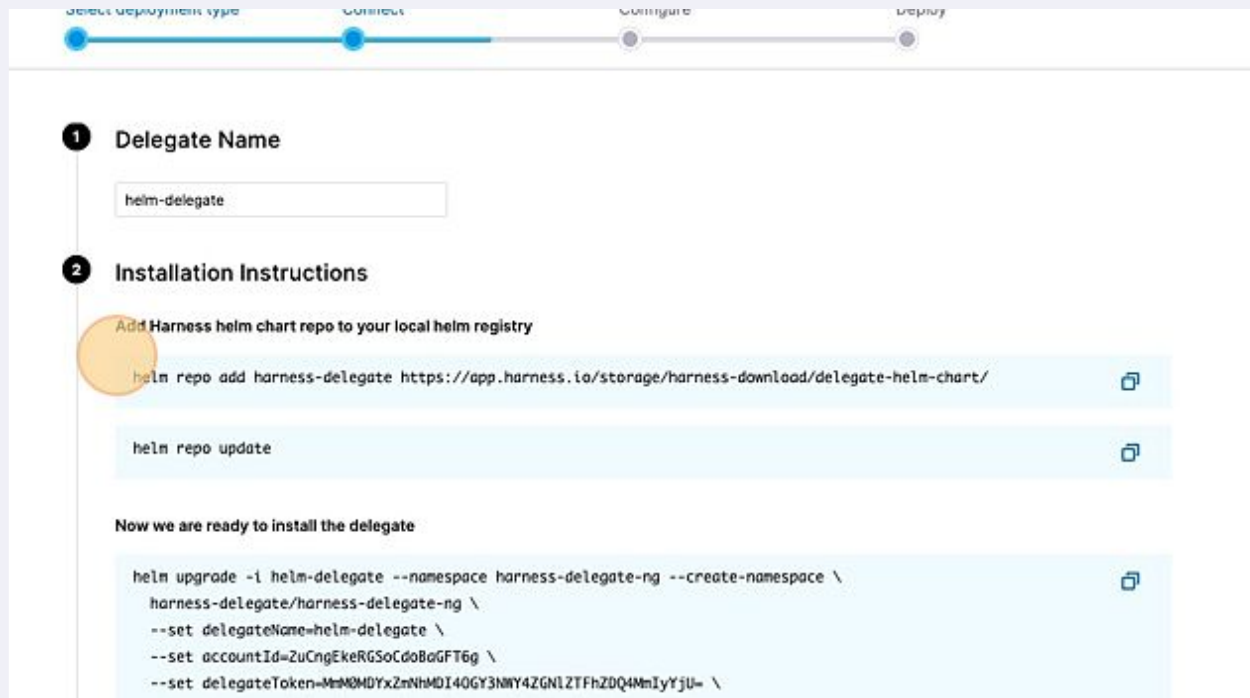
5 Click "Get Started" from CD Onboarding page



6 Kubernetes is great to start with as deployment type!
Click "Next: Connect"



7 Connect Harness to your environment by installing Delegate via helm



The screenshot shows the Harness console interface with a progress bar at the top. The first step, 'Delegate Name', has a text input field containing 'helm-delegate'. The second step, 'Installation Instructions', contains the following text and code blocks:

Add Harness helm chart repo to your local helm registry

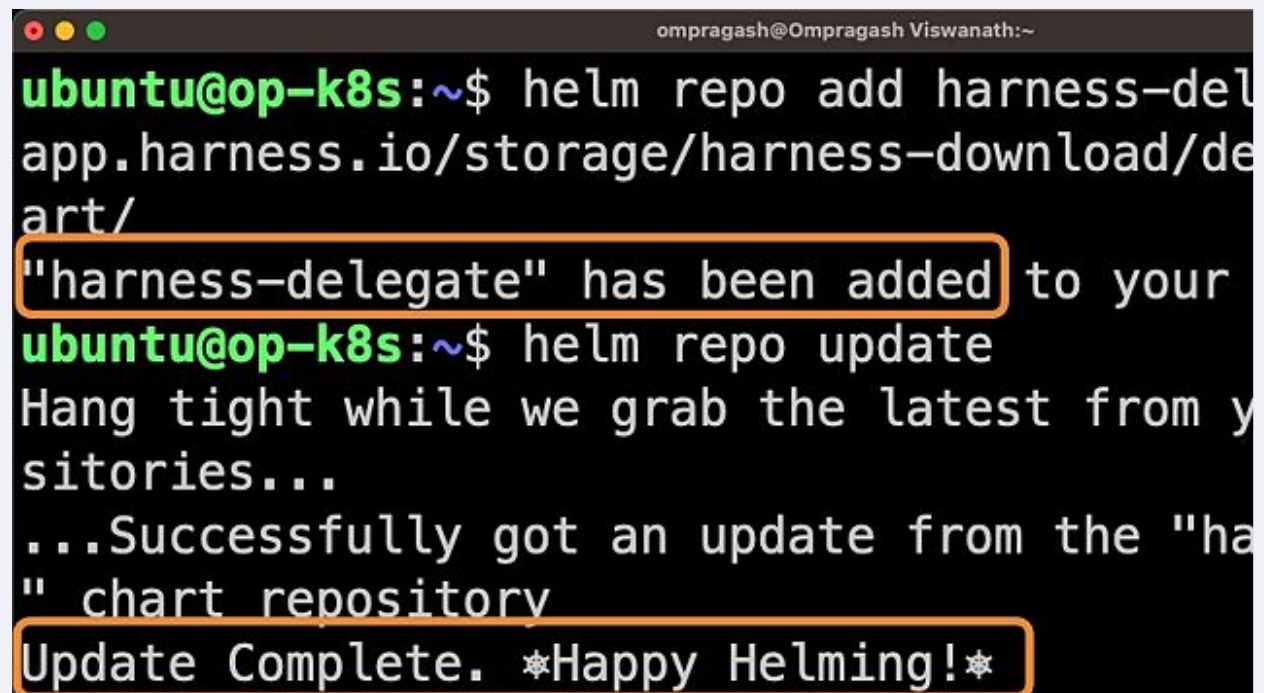
```
helm repo add harness-delegate https://app.harness.io/storage/harness-download/delegate-helm-chart/
```

```
helm repo update
```

Now we are ready to install the delegate

```
helm upgrade -i helm-delegate --namespace harness-delegate-ng --create-namespace \
harness-delegate/harness-delegate-ng \
--set delegateName=helm-delegate \
--set accountId=ZuCngEkeRGSoCdoBaGFT6g \
--set delegateToken=MEM0MDYxZmNhMDI4OGY3NMY4ZGNlZTFhZDQ4MmIyYjU= \
```

8 Add "delegate-helm-chart" to your local helm registry



```
ompragash@Ompragash Viswanath:~$ helm repo add harness-del
app.harness.io/storage/harness-download/de
art/
"harness-delegate" has been added to your
ubuntu@op-k8s:~$ helm repo update
Hang tight while we grab the latest from y
sitories...
...Successfully got an update from the "ha
" chart repository
Update Complete. ✨Happy Helming!✨
```

- 9 Now, copy the "helm upgrade" command

Add Harness helm chart repo to your local helm registry

```
helm repo add harness-delegate https://app.harness.io/storage/harness-download/delegate-helm-
```

```
helm repo update
```

Now we are ready to install the delegate

```
helm upgrade -i helm-delegate --namespace harness-delegate-ng --create-namespace \
harness-delegate/harness-delegate-ng \
--set delegateName=helm-delegate \
--set accountId=ZuCngEkeRGSoCdoBaGFT6g \
--set delegateToken=MmM0MDYxZmNhMDI4OGY3NWY4ZGNlZTFhZDQ4MmIyYjU= \
--set managerEndpoint=https://app.harness.io/gratis \
--set delegateDockerImage=harness/delegate:23.02.78306 \
--set replicas=1 --set upgrader.enabled=false
```

- 10 On successful install, you should see the status as "deployed"

```
Release "helm-delegate" does not exist. Installing it
NAME: helm-delegate
LAST DEPLOYED: Tue Feb 28 05:51:34 2023
NAMESPACE: harness-delegate-ng
STATUS: deployed
REVISION: 1
TEST SUITE: None
ubuntu@op-k8s:~$
```

11 Click "Verify"

```
helm upgrade -i helm-delegate --namespace harness-delegate-ng --create-namespace \
harness-delegate/harness-delegate-ng \
--set delegateName=helm-delegate \
--set accountId=ZuCngEkeRGSoCdoBaGFT6g \
--set delegateToken=MmM0MDYxZmNhMDI4OGY3NWY4ZGZlZTFhZDQ4MmIyYjU= \
--set managerEndpoint=https://app.harness.io/gratis \
--set delegateDockerImage=harness/delegate:23.02.78306 \
--set replicas=1 --set upgrader.enabled=false
```

3 Verify Delegate connection to Harness Manager

Verify

Verify once you have completed the steps above to make sure its installed properly

< Back

Next: Configure Service >

12 If the Delegate is installed properly, it will send a heartbeat to the Harness Manager and then click "Next: Configure Service"

3 Verify Delegate connection to Harness Manager

✔ Heartbeat received ✔ Delegate initialized



Great! You have successfully installed the Delegate.



Environment details

The following Harness entities have automatically been created for you:

Connector: K8s Cluster

Delegate: helm-delegate

Environment: dev

Infrastructure: dev-cluster

Namespace: default

< Back

Next: Configure Service >

13

For starters, let's use the Harness provided manifests from Harness File Store. Additionally, click on the 'eye' icon to view the contents of each file

manifest location

Sample manifest GitHub GitLab Bitbucket

Sample Manifests
Use the Harness provided manifests from your Harness account file store

namespace.yaml	👁
service.yaml	👁
deployment.yaml	👁
values.yaml	👁

Select your artifact repository

Docker Registry Artifactory ECR ACR

14

Optionally, you can connect your GitHub account and use your own manifests

Manifest location

Sample manifest **GitHub** GitLab Bitbucket

Connect to a GitHub

1 Select your Authentication method

GitHub Account URL

Please provide a repository to test the credentials. This is required just for checking connectivity. The connector will still be created at account level.

Test Repository

- 15 Click "Test Connection" under "Connect to a Docker Registry"

Connect to a Docker Registry

1 Select an authentication method

Provider Type ⓘ

☒ DockerHub ☐ Harbor ☐ Quay ☐ Other (Docker V2 compliant)

Docker Registry URL ⓘ

https://registry.hub.docker.com/v2/

Authentication ⓘ Anonymous (no credentials required) ▾

Test Connection

< Back Next: Create a Pipeline >

- 16 Check the "Connection Successful" message and the values of "Image Path" & "Tag" fields. Finally, click "Next: Create a Pipeline"

Authentication ⓘ Anonymous (no credentials required) ▾

2 Image Path

Image Path ⓘ

harness/todolist-sample

☒ Value ☐ Regex

Tag ⓘ

latest

Connection Successful

< Back Next: Create a Pipeline >

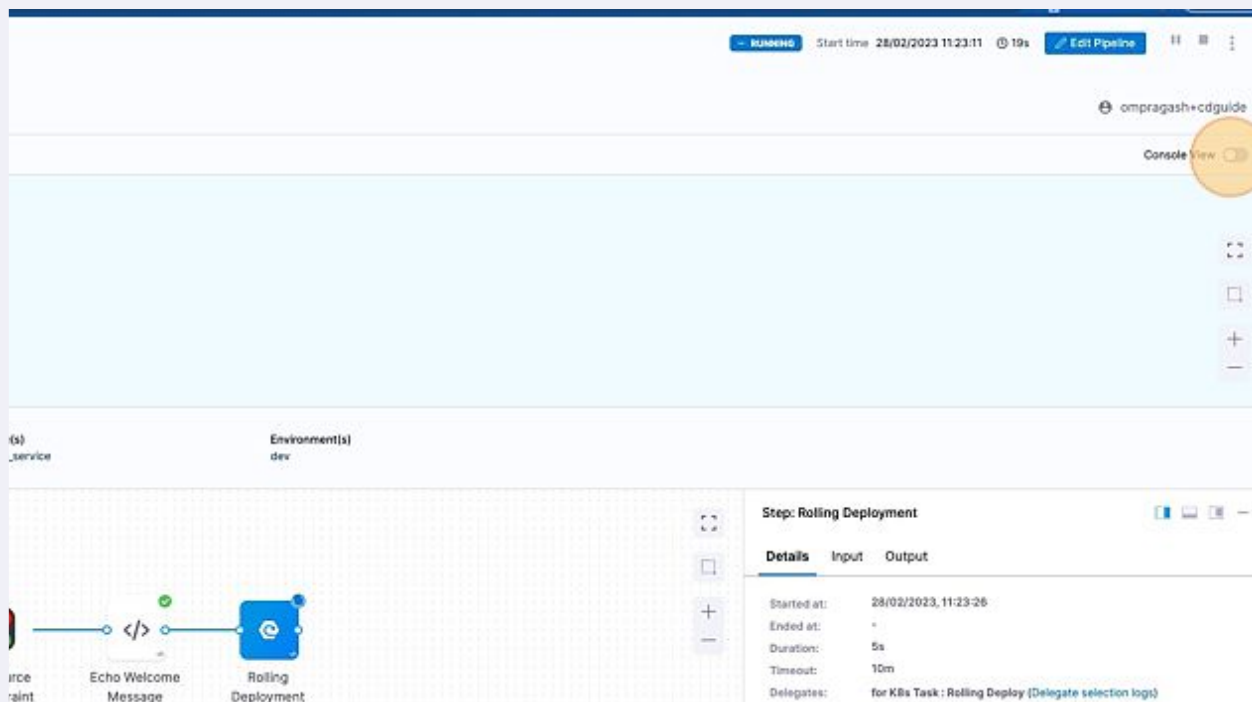
17 Yay! Your Pipeline is ready for launch Hit "Run Pipeline"

The screenshot shows a configuration page titled "Your pipeline is ready to go!". It contains several sections: "Deployment type" set to "Kubernetes", "Connect to Environment" with a "Success" status, "Delegate run as" set to "K8sCluster" with a "Not Connected" status, "Environment details" (Connector: K8s Cluster, Environment: dev, Infrastructure: dev-cluster, Namespace: default), and "Service Configuration" with a "Success" status. The service configuration includes: Service name: sample_service, Manifest type: K8sManifest, Manifest storage: Harness, and Artifact storage: DockerRegistry. A green "Run Pipeline" button is highlighted with a yellow circle. A "< Back" button is at the bottom left.

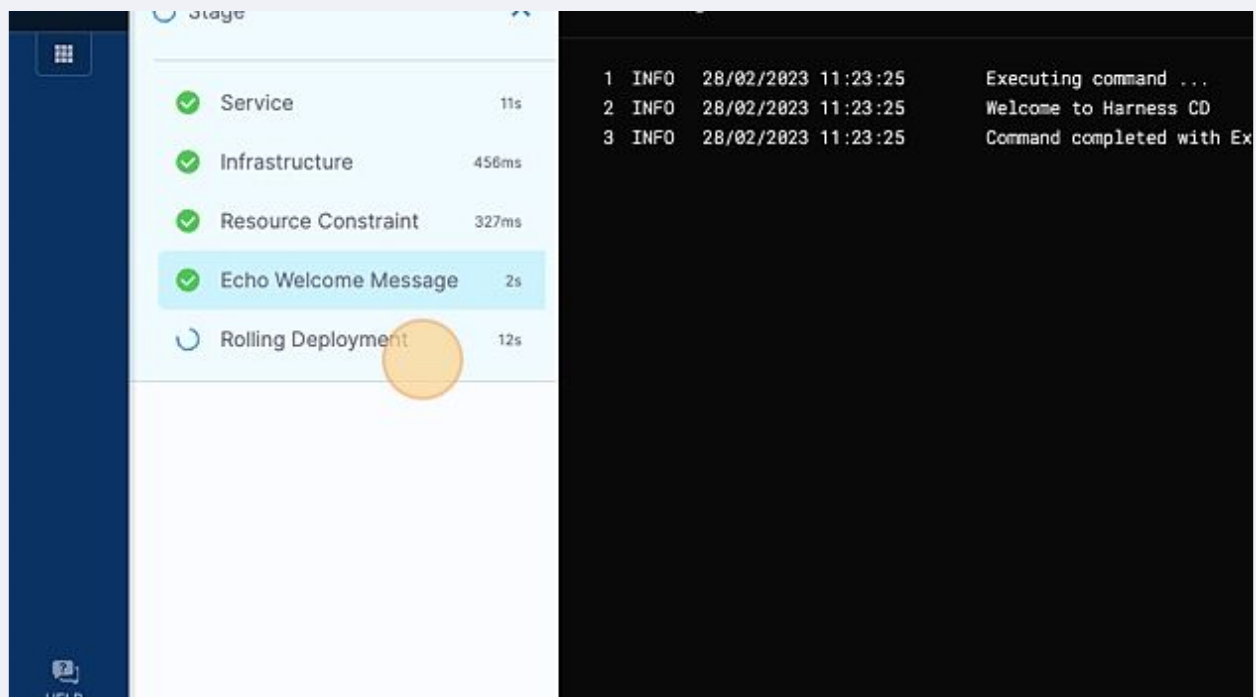
18 Pipeline started successfully

The screenshot shows the "Deploy_Sample_Pipeline" execution page. At the top, there's a green notification banner that says "✓ Pipeline started successfully". The page title is "Deploy_Sample_Pipeline (Execution id: 1)". Below the title, there are tabs for "Pipeline", "Inputs", and "Resilience". The "Pipeline" tab is active, showing a visual representation of the pipeline with a single stage. The stage is labeled "Stage" and has a duration of 6s. The stage details section shows "Started at: 28/02/2023, 11:23:11" and "Duration: 6s". The "Service(s)" and "Environment(s)" sections are empty. The bottom of the page shows a list of logs.

19 Toggle "Console View" to see the complete execution log



20 Console Log view



- 21 Run "kubectl get pods" to view the pods deployed by Harness CD

```
ubuntu@op-k8s: ~$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
harness-example-deployment-7b5bbb55cd-m846x	1/1	Running	0	54s

```
ubuntu@op-k8s: ~$
```

- 22 Congratulation on creating and running your first Deployment Pipeline!🎉

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