



# **Set up Dask with RAPIDS deployment on AKS using Helm**

NetApp Solutions

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# Set up Dask with RAPIDS deployment on AKS using Helm

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To set up Dask with RAPIDS deployment on AKS using Helm, complete the following steps:

1. Create a namespace for installing Dask with RAPIDS.

```
kubectl create namespace rapids-dask
```

2. Create a PVC to store the click-through rate dataset:
  - a. Save the following YAML content to a file to create a PVC.

```
kind: PersistentVolumeClaim
apiVersion: v1
metadata:
  name: pvc-criteo-data
spec:
  accessModes:
    - ReadWriteMany
  resources:
    requests:
      storage: 1000Gi
  storageClassName: azurenetappfiles
```

- b. Apply the YAML file to your Kubernetes cluster.

```
kubectl -n rapids-dask apply -f <your yaml file>
```

3. Clone the rapidsai git repository ( <https://github.com/rapidsai/helm-chart> ).

```
git clone https://github.com/rapidsai/helm-chart helm-chart
```

4. Modify `values.yaml` and include the PVC created earlier for workers and Jupyter workspace.
  - a. Go to the rapidsai directory of the repository.

```
cd helm-chart/rapidsai
```

- b. Update the `values.yaml` file and mount the volume using PVC.

```

dask:
  ...
  worker:
    name: worker
    ...
  mounts:
    volumes:
      - name: data
        persistentVolumeClaim:
          claimName: pvc-criteo-data
    volumeMounts:
      - name: data
        mountPath: /data
    ...
  jupyter:
    name: jupyter
    ...
  mounts:
    volumes:
      - name: data
        persistentVolumeClaim:
          claimName: pvc-criteo-data
    volumeMounts:
      - name: data
        mountPath: /data
    ...

```

5. Go to the repository's home directory and deploy Dask with three worker nodes on AKS using Helm.

```

cd ..
helm dep update rapidsai
helm install rapids-dask --namespace rapids-dask rapidsai

```

Next: [Azure NetApp Files performance tiers.](#)

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