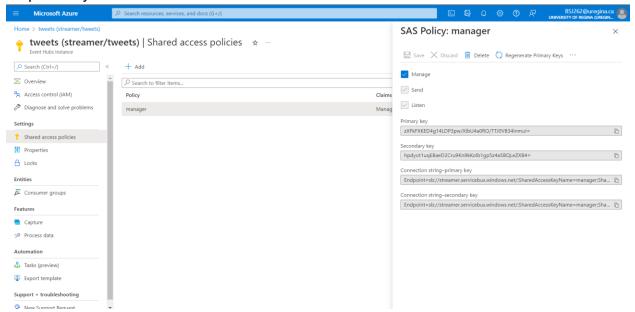
# **Appendices**

### Azure Event hub

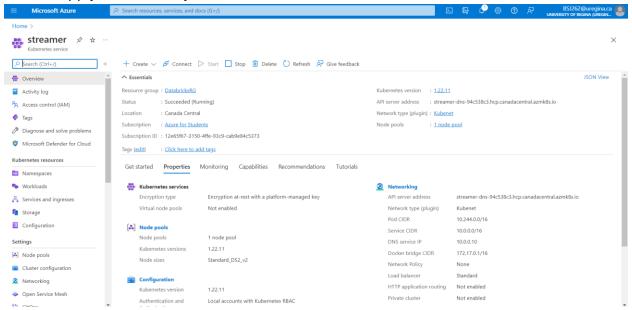
- 1. Follow the steps below to create an eventhub <a href="https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-create">https://docs.microsoft.com/en-us/azure/event-hubs-create</a>
- 2. After creating the eventhub go to shared access policies and create a policy with manager access.
- The primary/secondary connection string generated after creating the policy is used for both producing and consuming the data in the streamer and notebooks respectively.



### **Kubernetes Service**

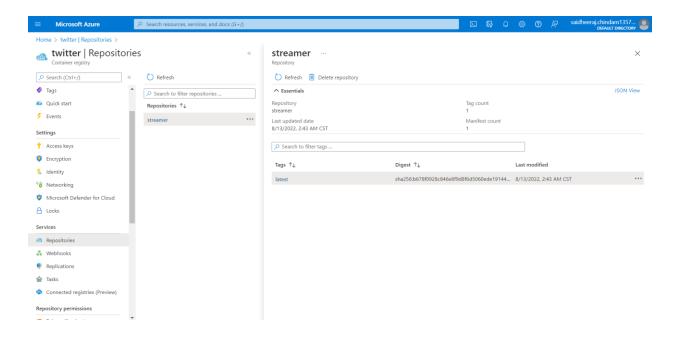
- Follow the steps below to create an AKS cluster until the nodes are up and running with the change of adding the container registry that you created in the integrations <a href="https://docs.microsoft.com/en-us/azure/aks/learn/quick-kubernetes-deploy-portal?tabs=azure-cli">https://docs.microsoft.com/en-us/azure/aks/learn/quick-kubernetes-deploy-portal?tabs=azure-cli</a>
- Copy the streamer.yml file to the Azure Cloud Shell and apply the file using the command, before applying change the connection string and name in the environment variable

#### kubectl apply -f streamer.yml



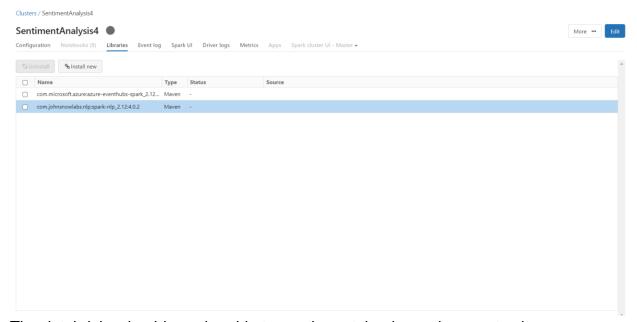
## Container Registry

- Follow the steps below just until the creation of registry
   https://docs.microsoft.com/en-us/azure/container-registry/container-registry-get-started-portal?tabs=azure-cli
- Go to access keys and enable admin-user
- Use the following command with the username and password displayed on the portal to login to the registry, the first word will change depending on the name you provided
  - docker login twitter.azurecr.io
- 4. Build the streamer image using the command docker build . -t twitter.azurecr.io/streamer:latest
- 5. Push the image using the command docker push twitter.azurecr.io/streamer:latest



### **Databricks**

- 1. Follow the steps below until the databricks cluster is created.
- Go to libraries and with library source as maven install the packages on the following Maven coordinates one by one com.microsoft.azure:azure-eventhubs-spark\_2.12:2.3.22 com.johnsnowlabs.nlp:spark-nlp\_2.12:4.0.2



The databricks should now be able to run the notebooks, make sure to change the configurations for things like storage account and event hub connection strings.

## **Azure Storage Account**

- 1. Use the steps below to create a Storage Account <a href="https://docs.microsoft.com/en-us/azure/storage/common/storage-account-create?tabs=azure-portal">https://docs.microsoft.com/en-us/azure/storage/common/storage-account-create?tabs=azure-portal</a>
- 2. Use the steps below to create a container <a href="https://docs.microsoft.com/en-us/azure/storage/blobs/storage-quickstart-blobs-portal#create-a-container">https://docs.microsoft.com/en-us/azure/storage/blobs/storage-quickstart-blobs-portal#create-a-container</a>
- 3. Use the access key from the access keys tab to configure the notebooks

