1. Step 03 - Creating Azure DevOps Pipeline for Azure Kubernetes Cluster IAAC. 0:49 time stamp

Creation of service connection to Azure screen and values changed a bit.

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Use the details from the below two commands

ravisankarmunusamy@Ravisankars-MacBook-Pro devops-master-class % **az login**

A web browser has been opened at <https://login.microsoftonline.com/organizations/oauth2/v2.0/authorize>. Please continue the login in the web browser. If no web browser is available or if the web browser fails to open, use device code flow with `az login --use-device-code`.

[

  {

    "cloudName": "AzureCloud",

    "homeTenantId": "6b0b15f1-6154-4ba0-a306-81c3467ecdd4", **<Subscription Id>**

    "id": "e7739568-5276-40ea-a339-97ac853c9043",

    "isDefault": true,

    "managedByTenants": [],

    "name": "Ravi-demo-subscription", **<Subscription Name>**

    "state": "Enabled",

    "tenantId": "6b0b15f1-6154-4ba0-a306-81c3467ecdd4",

    "user": {

      "name": "ravisankar.munusamy@gmail.com",

      "type": "user"

    }

  }

]

[Survey] Help us improve Azure CLI by sharing your experience. This survey should take about 5 minutes. Run 'az survey' to open in browser. Learn more at <https://go.microsoft.com/fwlink/?linkid=2203309>

ravisankarmunusamy@Ravisankars-MacBook-Pro devops-master-class % **az ad sp create-for-rbac --role="Contributor" --scopes="/subscriptions/e7739568-5276-40ea-a339-97ac853c9043"**

Creating 'Contributor' role assignment under scope '/subscriptions/e7739568-5276-40ea-a339-97ac853c9043'

The output includes credentials that you must protect. Be sure that you do not include these credentials in your code or check the credentials into your source control. For more information, see <https://aka.ms/azadsp-cli>

{

  "appId": "7573ca3f-b48f-4891-87a1-b9f16c749c9a", **<Service Principle Id>**

  "displayName": "azure-cli-2023-04-27-05-32-03",

  "password": "I9PDxseS\_eT6LH7l~khPac-rJVuRbbWf", **<Service Principle Key>**

  "tenant": "6b0b15f1-6154-4ba0-a306-81c3467ecdd4" **<Tenant>**

}

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**152. Step 06 - Creating Azure DevOps Pipeline for Deploying Microservice to Azure AKS 1:30**

AKS Kubernetes service connection

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We need to use KubeConfig option instead of Azure Subscription Option because of the error you get in like this ("Could not find any secrets associated with the Service Account.")

More details given in the below links.

<https://learn.microsoft.com/en-us/answers/questions/1051970/aks-with-kubernetes-service-connection-returns-cou>

<https://devblogs.microsoft.com/devops/service-connection-guidance-for-aks-customers-using-kubernetes-tasks/>

How to solve this

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step 1 -- Do az login in your cmd.

step2 -- run az aks get-credentials --name k8stest\_dev --resource-group kubernetes\_dev --admin;

Here I am assuming that you followed the previous all videos of this tutorial and your resource group and cluster names are same.

step3 -- now run cat ~/.kube/config; this command will show you config file details.

step4 -- copy all content of files to notepad.

step5 -- go to your service connection and choose KubeConfig from top radio button.

step6 -- paste notepad's content in KubeConfig box.

step7 -- choose cluster context k8stest\_dev

step8 -- click on verify if its success then your job done.

step9 -- Give connection name and click on last checkbox for permission.

**159. Step 01 - Review Terraform Configuration for AWS EKS Cluster Creation**

Steps to create EKS cluster

Step 1 - Run the pipeline as given in the repo

Step 2 - Uncomment the code given in this block and commit. The pipeline should start and create the necessary policies

//>>Uncomment this section once EKS is created - Start

//>>Uncomment this section once EKS is created - End

**This is needed from Kubernetes 1.24. Currently I set it to 1.23**

**165. Step 06 - 02 - Configure AWS CLI and Setup Kubernetes Connection using Service A at time stamp 6:57 will not work any more because of the issues explained here** <https://itnext.io/big-change-in-k8s-1-24-about-serviceaccounts-and-their-secrets-4b909a4af4e0>

**There is a change in how to get the secret from Kubernetes. In the latest version of EKS secrets are not available by default. So the instructions given here will not work. Instead we need to create do something else.**

**Create a secret in Kubernetes using kubectl**

**Save the content below as secret.yaml**

apiVersion: v1

kind: Secret

type: kubernetes.io/service-account-token

metadata:

name: defaultsecret

annotations:

kubernetes.io/service-account.name: "default"

**Do kubectl apply -f secret.yaml and this will be applied**

Run this command then kubectl get secret defaultsecret -n default -o json. Copy the entire content in secret.

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