AKS

muhammad@Azure:~$ az aks create --resource-group MyKubernetes --name Cluster01 --node-count 1 --generate-ssh-keys

{

"aadProfile": null,

"addonProfiles": null,

"agentPoolProfiles": [

{

"availabilityZones": null,

"count": 1,

"enableAutoScaling": false,

"enableEncryptionAtHost": false,

"enableFips": false,

"enableNodePublicIp": false,

"enableUltraSsd": false,

"gpuInstanceProfile": null,

"kubeletConfig": null,

"kubeletDiskType": "OS",

"linuxOsConfig": null,

"maxCount": null,

"maxPods": 110,

"minCount": null,

"mode": "System",

"name": "nodepool1",

"nodeImageVersion": "AKSUbuntu-1804gen2containerd-2021.10.23",

"nodeLabels": null,

"nodePublicIpPrefixId": null,

"nodeTaints": null,

"orchestratorVersion": "1.20.9",

"osDiskSizeGb": 128,

"osDiskType": "Managed",

"osSku": "Ubuntu",

"osType": "Linux",

"podSubnetId": null,

"powerState": {

"code": "Running"

},

"provisioningState": "Succeeded",

"proximityPlacementGroupId": null,

"scaleDownMode": null,

"scaleSetEvictionPolicy": null,

"scaleSetPriority": null,

"spotMaxPrice": null,

"tags": null,

"type": "VirtualMachineScaleSets",

"upgradeSettings": null,

"vmSize": "Standard\_DS2\_v2",

"vnetSubnetId": null

}

],

"apiServerAccessProfile": null,

"autoScalerProfile": null,

"autoUpgradeProfile": null,

"azurePortalFqdn": "cluster01-mykubernetes-5d2deb-d2b553fa.portal.hcp.westus2.azmk8s.io",

"disableLocalAccounts": false,

"diskEncryptionSetId": null,

"dnsPrefix": "Cluster01-MyKubernetes-5d2deb",

"enablePodSecurityPolicy": null,

"enableRbac": true,

"extendedLocation": null,

"fqdn": "cluster01-mykubernetes-5d2deb-d2b553fa.hcp.westus2.azmk8s.io",

"fqdnSubdomain": null,

"httpProxyConfig": null,

"id": "/subscriptions/5d2deb94-44c1-4f65-88dc-22e6a9841a7f/resourcegroups/MyKubernetes/providers/Microsoft.ContainerService/managedClusters/Cluster01",

"identity": {

"principalId": "786f0d4d-9aba-4a8e-827e-70e8c4afbbbe",

"tenantId": "69b51b68-b4cd-40fa-ac55-79544376c330",

"type": "SystemAssigned",

"userAssignedIdentities": null

},

"identityProfile": {

"kubeletidentity": {

"clientId": "09829631-0b7c-43c9-960a-f38473a68eed",

"objectId": "f53eb369-c396-4e83-a07a-e52828451344",

"resourceId": "/subscriptions/5d2deb94-44c1-4f65-88dc-22e6a9841a7f/resourcegroups/MC\_MyKubernetes\_Cluster01\_westus2/providers/Microsoft.ManagedIdentity/userAssignedIdentities/Cluster01-agentpool"

}

},

"kubernetesVersion": "1.20.9",

"linuxProfile": {

"adminUsername": "azureuser",

"ssh": {

"publicKeys": [

{

"keyData": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDCcqompJ0vD4RHriqi+ym6CrzOXPPA1QtCxOTwTqt2v4mZz/6Oik5brwFGeY52AmkA8Xs8yixTRhKf9uRs/w/SYNOl1q40AkvGsx+rz5EuToYu0uX61POPmf+FhH6H9cbuDA51emcsFgtdMU/XfB3f8Y/hfIuUccg9+5wanYTFru4qhRhUzHN94SWdjcBpEdjyaFsUkTEPpuMEuefT41NiS+uyYDBm5/vyhckTa8dILV7UYeO3A93hgMrJmBJdMwxIPyouc2bblfesAeR/joK4Q8Jo7IPr5KpGndWcjqfhBOLZY6EGFmynDLA0x19ZnNfb4ZeD4gR06Unhx54NkVG9 muhammad@cc-d3695dba-66fbb5ddc6-dj65l\n"

}

]

}

},

"location": "westus2",

"maxAgentPools": 100,

"name": "Cluster01",

"networkProfile": {

"dnsServiceIp": "10.0.0.10",

"dockerBridgeCidr": "172.17.0.1/16",

"loadBalancerProfile": {

"allocatedOutboundPorts": null,

"effectiveOutboundIPs": [

{

"id": "/subscriptions/5d2deb94-44c1-4f65-88dc-22e6a9841a7f/resourceGroups/MC\_MyKubernetes\_Cluster01\_westus2/providers/Microsoft.Network/publicIPAddresses/628f822c-1233-4e73-b80b-755827f82985",

"resourceGroup": "MC\_MyKubernetes\_Cluster01\_westus2"

}

],

"idleTimeoutInMinutes": null,

"managedOutboundIPs": {

"count": 1

},

"outboundIPs": null,

"outboundIpPrefixes": null

},

"loadBalancerSku": "Standard",

"natGatewayProfile": null,

"networkMode": null,

"networkPlugin": "kubenet",

"networkPolicy": null,

"outboundType": "loadBalancer",

"podCidr": "10.244.0.0/16",

"serviceCidr": "10.0.0.0/16"

},

"nodeResourceGroup": "MC\_MyKubernetes\_Cluster01\_westus2",

"podIdentityProfile": null,

"powerState": {

"code": "Running"

},

"privateFqdn": null,

"privateLinkResources": null,

"provisioningState": "Succeeded",

"resourceGroup": "MyKubernetes",

"securityProfile": null,

"servicePrincipalProfile": {

"clientId": "msi",

"secret": null

},

"sku": {

"name": "Basic",

"tier": "Free"

},

"tags": null,

"type": "Microsoft.ContainerService/ManagedClusters",

"windowsProfile": null

}

muhammad@Azure:~$

ahsan@u20srv:~$ az aks list -o table

Name Location ResourceGroup KubernetesVersion ProvisioningState Fqdn

--------- ---------- --------------- ------------------- ------------------- ------------------------------------------------------------

Cluster01 westus2 MyKubernetes 1.20.9 Succeeded cluster01-mykubernetes-5d2deb-d2b553fa.hcp.westus2.azmk8s.io

mahsan@u20srv:~$

mahsan@u20srv:~$ az aks list -o table

Name Location ResourceGroup KubernetesVersion ProvisioningState Fqdn

--------- ---------- --------------- ------------------- ------------------- ------------------------------------------------------------

Cluster01 westus2 MyKubernetes 1.20.9 Succeeded cluster01-mykubernetes-5d2deb-d2b553fa.hcp.westus2.azmk8s.io

mahsan@u20srv:~$ az aks browse --name Cluster01 --resource-group MyKubernetes

Kubernetes resources view on https://portal.azure.com/#resource/subscriptions/5d2deb94-44c1-4f65-88dc-22e6a9841a7f/resourceGroups/MyKubernetes/providers/Microsoft.ContainerService/managedClusters/Cluster01/workloads

"Kubernetes resources view on https://portal.azure.com/#resource/subscriptions/5d2deb94-44c1-4f65-88dc-22e6a9841a7f/resourceGroups/MyKubernetes/providers/Microsoft.ContainerService/managedClusters/Cluster01/workloads"

mahsan@u20srv:~$

mahsan@u20srv:~$ az aks get-credentials --resource-group MyKubernetes --name Cluster01

Merged "Cluster01" as current context in /home/mahsan/.kube/config

mahsan@u20srv:~$

mahsan@u20srv:~$ kubectl config get-contexts

CURRENT NAME CLUSTER AUTHINFO NAMESPACE

\* Cluster01 Cluster01 clusterUser\_MyKubernetes\_Cluster01

mahsan@u20srv:~$

mahsan@u20srv:~$

mahsan@u20srv:~$ kubectl get all

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

service/kubernetes ClusterIP 10.0.0.1 <none> 443/TCP 38m

mahsan@u20srv:~$ kubectl get all --all-namespaces

NAMESPACE NAME READY STATUS RESTARTS AGE

kube-system pod/azure-ip-masq-agent-vhc6d 1/1 Running 0 37m

kube-system pod/coredns-58567c6d46-9cqkb 1/1 Running 0 37m

kube-system pod/coredns-58567c6d46-k8g2q 1/1 Running 0 37m

kube-system pod/coredns-autoscaler-54d55c8b75-dvh72 1/1 Running 0 37m

kube-system pod/konnectivity-agent-586899678d-fstsl 1/1 Running 0 37m

kube-system pod/kube-proxy-n2gf9 1/1 Running 0 37m

kube-system pod/metrics-server-569f6547dd-4m76j 1/1 Running 1 37m

NAMESPACE NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

default service/kubernetes ClusterIP 10.0.0.1 <none> 443/TCP 38m

kube-system service/kube-dns ClusterIP 10.0.0.10 <none> 53/UDP,53/TCP 37m

kube-system service/metrics-server ClusterIP 10.0.170.4 <none> 443/TCP 37m

NAMESPACE NAME DESIRED CURRENT READY UP-TO-DATE AVAILABLE NODE SELECTOR AGE

kube-system daemonset.apps/azure-ip-masq-agent 1 1 1 1 1 beta.kubernetes.io/os=linux 37m

kube-system daemonset.apps/kube-proxy 1 1 1 1 1 beta.kubernetes.io/os=linux 37m

NAMESPACE NAME READY UP-TO-DATE AVAILABLE AGE

kube-system deployment.apps/coredns 2/2 2 2 37m

kube-system deployment.apps/coredns-autoscaler 1/1 1 1 37m

kube-system deployment.apps/konnectivity-agent 1/1 1 1 37m

kube-system deployment.apps/metrics-server 1/1 1 1 37m

NAMESPACE NAME DESIRED CURRENT READY AGE

kube-system replicaset.apps/coredns-58567c6d46 2 2 2 37m

kube-system replicaset.apps/coredns-autoscaler-54d55c8b75 1 1 1 37m

kube-system replicaset.apps/konnectivity-agent-586899678d 1 1 1 37m

kube-system replicaset.apps/metrics-server-569f6547dd 1 1 1 37m

mahsan@u20srv:~$

mahsan@u20srv:~$ kubectl cluster-info

Kubernetes master is running at https://cluster01-mykubernetes-5d2deb-d2b553fa.hcp.westus2.azmk8s.io:443

CoreDNS is running at https://cluster01-mykubernetes-5d2deb-d2b553fa.hcp.westus2.azmk8s.io:443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy

Metrics-server is running at https://cluster01-mykubernetes-5d2deb-d2b553fa.hcp.westus2.azmk8s.io:443/api/v1/namespaces/kube-system/services/https:metrics-server:/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

mahsan@u20srv:~$

mahsan@u20srv:~$ kubectl run nginx --image=nginx --port=80

pod/nginx created

mahsan@u20srv:~$ kubectl get pods

NAME READY STATUS RESTARTS AGE

nginx 0/1 ContainerCreating 0 5s

mahsan@u20srv:~$ kubectl get pods

NAME READY STATUS RESTARTS AGE

nginx 0/1 ContainerCreating 0 8s

mahsan@u20srv:~$ kubectl get pods

NAME READY STATUS RESTARTS AGE

nginx 1/1 Running 0 9s

mahsan@u20srv:~$ kubectl exec -it nginx -- ls

bin docker-entrypoint.d home media proc sbin tmp

boot docker-entrypoint.sh lib mnt root srv usr

dev etc lib64 opt run sys var

mahsan@u20srv:~$

mahsan@u20srv:~$ kubectl expose pod nginx --port=8080

service/nginx exposed

mahsan@u20srv:~$ kubectl get svc

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

kubernetes ClusterIP 10.0.0.1 <none> 443/TCP 43m

nginx ClusterIP 10.0.205.91 <none> 8080/TCP 7s

mahsan@u20srv:~$

mahsan@u20srv:~$ kubectl create deploy msa --image=nginx

deployment.apps/msa created

mahsan@u20srv:~$ kubectl get deploy

NAME READY UP-TO-DATE AVAILABLE AGE

msa 1/1 1 1 4s

mahsan@u20srv:~$ kubectl expose deploy msa --port=80 --target-port=80 --type=LoadBalancer

service/msa exposed

mahsan@u20srv:~$ kubectl get svc

mahsan@u20srv:~$ kubectl get svc

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

kubernetes ClusterIP 10.0.0.1 <none> 443/TCP 50m

msa LoadBalancer 10.0.132.81 20.80.153.202 80:31453/TCP 26s

nginx ClusterIP 10.0.205.91 <none> 8080/TCP 7m

mahsan@u20srv:~$ ~

mahsan@u20srv:/tmp$ curl -O https://raw.githubusercontent.com/helm/helm/master/scripts/get-helm-3

% Total % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

100 11148 100 11148 0 0 65192 0 --:--:-- --:--:-- --:--:-- 64813

mahsan@u20srv:/tmp$ ls -ltr

total 28

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-timesyncd.service-eNPahh

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-resolved.service-jk9DQh

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-logind.service-Gc4GTi

drwx------ 3 root root 4096 Nov 11 16:23 snap.lxd

-rw-rw-r-- 1 mahsan mahsan 11148 Nov 11 19:10 get-helm-3

mahsan@u20srv:/tmp$ bash ./get-helm-3

Downloading https://get.helm.sh/helm-v3.7.1-linux-amd64.tar.gz

Verifying checksum... Done.

Preparing to install helm into /usr/local/bin

[sudo] password for mahsan:

helm installed into /usr/local/bin/helm

mahsan@u20srv:/tmp$ helm version

version.BuildInfo{Version:"v3.7.1", GitCommit:"1d11fcb5d3f3bf00dbe6fe31b8412839a96b3dc4", GitTreeState:"clean", GoVersion:"go1.16.9"}

mahsan@u20srv:/tmp$ helm search hub wordpress

URL CHART VERSION APP VERSION DESCRIPTION

https://artifacthub.io/packages/helm/kube-wordp... 0.1.0 1.1 this is my wordpress package

https://artifacthub.io/packages/helm/riftbit/wo... 12.1.16 5.8.1 Web publishing platform for building blogs and ...

https://artifacthub.io/packages/helm/bitnami-ak... 12.1.18 5.8.1 Web publishing platform for building blogs and ...

https://artifacthub.io/packages/helm/bitnami/wo... 12.1.28 5.8.2 Web publishing platform for building blogs and ...

mahsan@u20srv:/tmp$ kubectl create serviceaccount --namespace kube-system tiller

serviceaccount/tiller created

mahsan@u20srv:/tmp$ kubectl get sa

NAME SECRETS AGE

default 1 68m

mahsan@u20srv:/tmp$ kubectl get sa -n kube-system

replication-controller 1 68m

resourcequota-controller 1 68m

root-ca-cert-publisher 1 68m

route-controller 1 68m

service-account-controller 1 68m

service-controller 1 68m

statefulset-controller 1 68m

tiller 1 12s

token-cleaner 1 68m

ttl-controller 1 68m

mahsan@u20srv:/tmp$ kubectl get sa -n kube-system | grep tiller

tiller 1 36s

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ kubectl create clusterrolebinding tiller-cluster-rule \

> --clusterrole=cluster-admin \

> --serviceaccount=kube-system:tiller

clusterrolebinding.rbac.authorization.k8s.io/tiller-cluster-rule created

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm repo add azure \

> https://kubernetescharts.blob.core.windows.net/azure

"azure" has been added to your repositories

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm repo list

NAME URL

azure https://kubernetescharts.blob.core.windows.net/azure

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm repo update

Hang tight while we grab the latest from your chart repositories...

...Successfully got an update from the "azure" chart repository

Update Complete. ⎈Happy Helming!⎈

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm search hub wordpress

URL CHART VERSION APP VERSION DESCRIPTION

https://artifacthub.io/packages/helm/kube-wordp... 0.1.0 1.1 this is my wordpress package

https://artifacthub.io/packages/helm/riftbit/wo... 12.1.16 5.8.1 Web publishing platform for building blogs and ...

https://artifacthub.io/packages/helm/bitnami-ak... 12.1.18 5.8.1 Web publishing platform for building blogs and ...

https://artifacthub.io/packages/helm/bitnami/wo... 12.1.28 5.8.2 Web publishing platform for building blogs and ...

https://artifacthub.io/packages/helm/groundhog2... 0.4.2 5.8.1-apache A Helm chart for Wordpress on Kubernetes

https://artifacthub.io/packages/helm/mcouliba/w... 0.1.0 1.16.0 A Helm chart for Kubernetes

https://artifacthub.io/packages/helm/homeenterp... 0.1.0 5.8.0-php8.0-apache Blog server

https://artifacthub.io/packages/helm/securecode... 3.3.1 4.0 Insecure & Outdated Wordpress Instance: Ne ver e...

https://artifacthub.io/packages/helm/wordpressm... 1.0.0 This is the Helm Chart that creates the Wo rdpre...

https://artifacthub.io/packages/helm/bitpoke/wo... 0.11.0-rc.2 0.11.0-rc.2 Bitpoke WordPress Operator Helm Chart

https://artifacthub.io/packages/helm/presslabs/... 0.11.0-alpha.3 0.11.0

mahsan@u20srv:/tmp$ helm repo add stable https://charts.helm.sh/stable

"stable" has been added to your repositories

mahsan@u20srv:/tmp$ helm list repo

Error: "helm list" accepts no arguments

Usage: helm list [flags]

mahsan@u20srv:/tmp$ helm repo list

NAME URL

azure https://kubernetescharts.blob.core.windows.net/azure

stable https://charts.helm.sh/stable

mahsan@u20srv:/tmp$ helm search repo stable

NAME CHART VERSION APP VERSION DESCRIPTION

stable/acs-engine-autoscaler 2.2.2 2.1.1 DEPRECATED Scales worker nodes within agent pools

stable/aerospike 0.3.5 v4.5.0.5 DEPRECATED A Helm chart for Aerospike in Kubern...

stable/airflow 7.13.3 1.10.12 DEPRECATED - please use: https://github.com/air...

stable/ambassador 5.3.2 0.86.1 DEPRECATED A Helm chart for Datawire Ambassador

stable/anchore-engine 1.7.0 0.7.3 Anchore container analysis and policy evaluatio...

stable/apm-server 2.1.7 7.0.0 DEPRECATED The server receives data from the El...

stable/ark 4.2.2 0.10.2 DEPRECATED A Helm chart for ark

stable/artifactory 7.3.2 6.1.0 DEPRECATED Universal Repository Manager support...

stable/artifactory-ha 0.4.2 6.2.0 DEPRECATED Universal Repository Manager support...

stable/atlantis 3.12.4 v0.14.0 DEPRECATED A Helm chart for Atlantis https://ww...

stable/auditbeat 1.1.2 6.7.0 DEPRECATED A lightweight shipper to audit the a...

stable/aws-cluster-autoscaler 0.3.4 DEPRECATED Scales worker nodes within autoscali...

stable/aws-iam-authenticator 0.1.5 1.0 DEPRECATED A Helm chart for aws-iam-authenticator

stable/bitcoind 1.0.2 0.17.1 DEPRECATED Bitcoin is an innovative payment net...

stable/bookstack 1.2.

mahsan@u20srv:/tmp$ helm show chart stable/docker-registry

apiVersion: v1

appVersion: 2.7.1

deprecated: true

description: DEPRECATED A Helm chart for Docker Registry

home: https://hub.docker.com/\_/registry/

icon: https://hub.docker.com/public/images/logos/mini-logo.svg

name: docker-registry

sources:

- https://github.com/docker/distribution-library-image

version: 1.9.6

mahsan@u20srv:/tmp$

ahsan@u20srv:/tmp$ helm install registry stable/docker-registry

WARNING: This chart is deprecated

NAME: registry

LAST DEPLOYED: Thu Nov 11 19:53:34 2021

NAMESPACE: default

STATUS: deployed

REVISION: 1

TEST SUITE: None

NOTES:

1. Get the application URL by running these commands:

export POD\_NAME=$(kubectl get pods --namespace default -l "app=docker-registry,release=registry" -o jsonpath="{.items[0].metadata.name}")

echo "Visit http://127.0.0.1:8080 to use your application"

kubectl -n default port-forward $POD\_NAME 8080:5000

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm list

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

registry default 1 2021-11-11 19:53:34.767374998 +0000 UTC deployed docker-registry-1.9.6 2.7.1

mahsan@u20srv:/tmp$ helm status registry

NAME: registry

LAST DEPLOYED: Thu Nov 11 19:53:34 2021

NAMESPACE: default

STATUS: deployed

REVISION: 1

TEST SUITE: None

NOTES:

1. Get the application URL by running these commands:

export POD\_NAME=$(kubectl get pods --namespace default -l "app=docker-registry,release=registry" -o jsonpath="{.items[0].metadata.name}")

echo "Visit http://127.0.0.1:8080 to use your application"

kubectl -n default port-forward $POD\_NAME 8080:5000

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm install stable/wordpress --generate-name

WARNING: This chart is deprecated

NAME: wordpress-1636660664

LAST DEPLOYED: Thu Nov 11 19:57:49 2021

NAMESPACE: default

STATUS: deployed

REVISION: 1

NOTES:

This Helm chart is deprecated

Given the `stable` deprecation timeline (https://github.com/helm/charts#deprecation-timeline), the Bitnami maintained Helm chart is now located at bitnami/charts (https://github.com/bitnami/charts/).

The Bitnami repository is already included in the Hubs and we will continue providing the same cadence of updates, support, etc that we've been keeping here these years. Installation instructions are very similar, just adding the \_bitnami\_ repo and using it during the installation (`bitnami/<chart>` instead of `stable/<chart>`)

```bash

$ helm repo add bitnami https://charts.bitnami.com/bitnami

$ helm install my-release bitnami/<chart> # Helm 3

$ helm install --name my-release bitnami/<chart> # Helm 2

```

To update an exisiting \_stable\_ deployment with a chart hosted in the bitnami repository you can execute

```bash

$ helm repo add bitnami https://charts.bitnami.com/bitnami

$ helm upgrade my-release bitnami/<chart>

```

Issues and PRs related to the chart itself will be redirected to `bitnami/charts` GitHub repository. In the same way, we'll be happy to answer questions related to this migration process in this issue (https://github.com/helm/charts/issues/20969) created as a common place for discussion.

\*\* Please be patient while the chart is being deployed \*\*

To access your WordPress site from outside the cluster follow the steps below:

1. Get the WordPress URL by running these commands:

NOTE: It may take a few minutes for the LoadBalancer IP to be available.

Watch the status with: 'kubectl get svc --namespace default -w wordpress-1636660664'

export SERVICE\_IP=$(kubectl get svc --namespace default wordpress-1636660664 --template "{{ range (index .status.loadBalancer.ingress 0) }}{{.}}{{ end }}")

echo "WordPress URL: http://$SERVICE\_IP/"

echo "WordPress Admin URL: http://$SERVICE\_IP/admin"

2. Open a browser and access WordPress using the obtained URL.

3. Login with the following credentials below to see your blog:

echo Username: user

echo Password: $(kubectl get secret --namespace default wordpress-1636660664 -o jsonpath="{.data.wordpress-password}" | base64 --decode)

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm ls

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

registry default 1 2021-11-11 19:53:34.767374998 +0000 UTC deployed docker-registry-1.9.6 2.7.1

wordpress-1636660664 default 1 2021-11-11 19:57:49.276606176 +0000 UTC deployed wordpress-9.0.3 5.3.2

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm status wordpress-1636660664

NAME: wordpress-1636660664

LAST DEPLOYED: Thu Nov 11 19:57:49 2021

NAMESPACE: default

STATUS: deployed

REVISION: 1

NOTES:

This Helm chart is deprecated

Given the `stable` deprecation timeline (https://github.com/helm/charts#deprecation-timeline), the Bitnami maintained Helm chart is now located at bitnami/charts (https://github.com/bitnami/charts/).

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```bash

$ helm repo add bitnami https://charts.bitnami.com/bitnami

$ helm install my-release bitnami/<chart> # Helm 3

$ helm install --name my-release bitnami/<chart> # Helm 2

```

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```bash

$ helm repo add bitnami https://charts.bitnami.com/bitnami

$ helm upgrade my-release bitnami/<chart>

```

Issues and PRs related to the chart itself will be redirected to `bitnami/charts` GitHub repository. In the same way, we'll be happy to answer questions related to this migration process in this issue (https://github.com/helm/charts/issues/20969) created as a common place for discussion.

\*\* Please be patient while the chart is being deployed \*\*

To access your WordPress site from outside the cluster follow the steps below:

1. Get the WordPress URL by running these commands:

NOTE: It may take a few minutes for the LoadBalancer IP to be available.

Watch the status with: 'kubectl get svc --namespace default -w wordpress-1636660664'

export SERVICE\_IP=$(kubectl get svc --namespace default wordpress-1636660664 --template "{{ range (index .status.loadBalancer.ingress 0) }}{{.}}{{ end }}")

echo "WordPress URL: http://$SERVICE\_IP/"

echo "WordPress Admin URL: http://$SERVICE\_IP/admin"

2. Open a browser and access WordPress using the obtained URL.

3. Login with the following credentials below to see your blog:

echo Username: user

echo Password: $(kubectl get secret --namespace default wordpress-1636660664 -o jsonpath="{.data.wordpress-password}" | base64 --decode)

mahsan@u20srv:/tmp$

hsan@u20srv:/tmp$ kubectl get deploy

NAME READY UP-TO-DATE AVAILABLE AGE

msa 1/1 1 1 67m

registry-docker-registry 1/1 1 1 8m39s

wordpress-1636660664 0/1 1 0 4m24s

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ kubectl get svc

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

kubernetes ClusterIP 10.0.0.1 <none> 443/TCP 117m

msa LoadBalancer 10.0.132.81 20.80.153.202 80:31453/TCP 67m

nginx ClusterIP 10.0.205.91 <none> 8080/TCP 73m

registry-docker-registry ClusterIP 10.0.98.130 <none> 5000/TCP 9m7s

wordpress-1636660664 LoadBalancer 10.0.171.222 20.99.185.187 80:31958/TCP,443:31545/TCP 4m52s

wordpress-1636660664-mariadb ClusterIP 10.0.81.225 <none> 3306/TCP 4m52s

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm ls

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

registry default 1 2021-11-11 19:53:34.767374998 +0000 UTC deployed docker-registry-1.9.6 2.7.1

wordpress-1636660664 default 1 2021-11-11 19:57:49.276606176 +0000 UTC deployed wordpress-9.0.3 5.3.2

mahsan@u20srv:/tmp$ helm remove wordpress-1636660664

Error: unknown command "remove" for "helm"

Did you mean this?

uninstall

Run 'helm --help' for usage.

mahsan@u20srv:/tmp$ helm delete wordpress-1636660664

release "wordpress-1636660664" uninstalled

mahsan@u20srv:/tmp$

Run 'helm --help' for usage.

mahsan@u20srv:/tmp$ helm delete wordpress-1636660664

release "wordpress-1636660664" uninstalled

mahsan@u20srv:/tmp$ helm ls

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

registry default 1 2021-11-11 19:53:34.767374998 +0000 UTC deployed docker-registry-1.9.6 2.7.1

mahsan@u20srv:/tmp$

Use "helm show [command] --help" for more information about a command.

mahsan@u20srv:/tmp$ helm repo add bitnami https://charts.bitnami.com/bitnami

"bitnami" has been added to your repositories

mahsan@u20srv:/tmp$ helm repolist

Error: unknown command "repolist" for "helm"

Run 'helm --help' for usage.

mahsan@u20srv:/tmp$ helm repo list

NAME URL

azure https://kubernetescharts.blob.core.windows.net/azure

stable https://charts.helm.sh/stable

bitnami https://charts.bitnami.com/bitnami

mahsan@u20srv:/tmp$ helm install my-release bitnami/mariadb

NAME: my-release

LAST DEPLOYED: Thu Nov 11 21:08:46 2021

NAMESPACE: default

STATUS: deployed

REVISION: 1

TEST SUITE: None

NOTES:

CHART NAME: mariadb

CHART VERSION: 9.8.1

APP VERSION: 10.5.13

\*\* Please be patient while the chart is being deployed \*\*

Tip:

Watch the deployment status using the command: kubectl get pods -w --namespace default -l app.kubernetes.io/instance=my-release

Services:

echo Primary: my-release-mariadb.default.svc.cluster.local:3306

Administrator credentials:

Username: root

Password : $(kubectl get secret --namespace default my-release-mariadb -o jsonpath="{.data.mariadb-root-password}" | base64 --decode)

To connect to your database:

1. Run a pod that you can use as a client:

kubectl run my-release-mariadb-client --rm --tty -i --restart='Never' --image docker.io/bitnami/mariadb:10.5.13-debian-10-r0 --namespace default --command -- bash

2. To connect to primary service (read/write):

mysql -h my-release-mariadb.default.svc.cluster.local -uroot -p my\_database

To upgrade this helm chart:

1. Obtain the password as described on the 'Administrator credentials' section and set the 'auth.rootPassword' parameter as shown below:

ROOT\_PASSWORD=$(kubectl get secret --namespace default my-release-mariadb -o jsonpath="{.data.mariadb-root-password}" | base64 --decode)

helm upgrade --namespace default my-release bitnami/mariadb --set auth.rootPassword=$ROOT\_PASSWORD

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm ls

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

my-release default 1 2021-11-11 21:08:46.233234844 +0000 UTC deployed mariadb-9.8.1 10.5.13

registry default 1 2021-11-11 19:53:34.767374998 +0000 UTC deployed docker-registry-1.9.6 2.7.1

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ helm create chart-MSA

Creating chart-MSA

mahsan@u20srv:/tmp$ helm ls

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

my-release default 1 2021-11-11 21:08:46.233234844 +0000 UTC deployed mariadb-9.8.1 10.5.13

registry default 1 2021-11-11 19:53:34.767374998 +0000 UTC deployed docker-registry-1.9.6 2.7.1

mahsan@u20srv:/tmp$ tree chart-MSA/

Command 'tree' not found, but can be installed with:

sudo apt install tree

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ ll

total 60

drwxrwxrwt 12 root root 4096 Nov 11 21:12 ./

drwxr-xr-x 20 root root 4096 Nov 4 04:54 ../

drwxr-xr-x 4 mahsan mahsan 4096 Nov 11 21:12 chart-MSA/

drwxrwxrwt 2 root root 4096 Nov 11 16:22 .font-unix/

-rw-rw-r-- 1 mahsan mahsan 11148 Nov 11 19:10 get-helm-3

drwxrwxrwt 2 root root 4096 Nov 11 16:22 .ICE-unix/

drwx------ 3 root root 4096 Nov 11 16:23 snap.lxd/

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-logind.service-Gc4GTi/

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-resolved.service-jk9DQh/

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-timesyncd.service-eNPahh/

drwxrwxrwt 2 root root 4096 Nov 11 16:22 .Test-unix/

drwxrwxrwt 2 root root 4096 Nov 11 16:22 .X11-unix/

drwxrwxrwt 2 root root 4096 Nov 11 16:22 .XIM-unix/

mahsan@u20srv:/tmp$ find chart-MSA/

chart-MSA/

chart-MSA/templates

chart-MSA/templates/hpa.yaml

chart-MSA/templates/service.yaml

chart-MSA/templates/ingress.yaml

chart-MSA/templates/\_helpers.tpl

chart-MSA/templates/tests

chart-MSA/templates/tests/test-connection.yaml

chart-MSA/templates/serviceaccount.yaml

chart-MSA/templates/NOTES.txt

chart-MSA/templates/deployment.yaml

chart-MSA/.helmignore

chart-MSA/charts

chart-MSA/values.yaml

chart-MSA/Chart.yaml

mahsan@u20srv:/tmp$

####

mahsan@u20srv:/tmp$ helm delete chart-MSA/

Error: uninstall: Release name is invalid: chart-MSA/

########

mahsan@u20srv:/tmp/myhelm$ helm install --dry-run --debug ../myhelm --generate-name

install.go:178: [debug] Original chart version: ""

install.go:199: [debug] CHART PATH: /tmp/myhelm

NAME: myhelm-1636668471

LAST DEPLOYED: Thu Nov 11 22:07:52 2021

NAMESPACE: default

STATUS: pending-install

REVISION: 1

USER-SUPPLIED VALUES:

{}

COMPUTED VALUES:

affinity: {}

autoscaling:

enabled: false

maxReplicas: 100

minReplicas: 1

targetCPUUtilizationPercentage: 80

fullnameOverride: ""

image:

pullPolicy: IfNotPresent

repository: nginx

tag: ""

imagePullSecrets: []

ingress:

annotations: {}

className: ""

enabled: false

hosts:

- host: chart-example.local

paths:

- path: /

pathType: ImplementationSpecific

tls: []

nameOverride: ""

nodeSelector: {}

podAnnotations: {}

podSecurityContext: {}

replicaCount: 1

resources: {}

securityContext: {}

service:

port: 80

type: ClusterIP

serviceAccount:

annotations: {}

create: true

name: ""

tolerations: []

HOOKS:

---

# Source: myhelm/templates/tests/test-connection.yaml

apiVersion: v1

kind: Pod

metadata:

name: "myhelm-1636668471-test-connection"

labels:

helm.sh/chart: myhelm-0.1.0

app.kubernetes.io/name: myhelm

app.kubernetes.io/instance: myhelm-1636668471

app.kubernetes.io/version: "1.15.2"

app.kubernetes.io/managed-by: Helm

annotations:

"helm.sh/hook": test

spec:

containers:

- name: wget

image: busybox

command: ['wget']

args: ['myhelm-1636668471:80']

restartPolicy: Never

MANIFEST:

---

# Source: myhelm/templates/serviceaccount.yaml

apiVersion: v1

kind: ServiceAccount

metadata:

name: myhelm-1636668471

labels:

helm.sh/chart: myhelm-0.1.0

app.kubernetes.io/name: myhelm

app.kubernetes.io/instance: myhelm-1636668471

app.kubernetes.io/version: "1.15.2"

app.kubernetes.io/managed-by: Helm

---

# Source: myhelm/templates/service.yaml

apiVersion: v1

kind: Service

metadata:

name: myhelm-1636668471

labels:

helm.sh/chart: myhelm-0.1.0

app.kubernetes.io/name: myhelm

app.kubernetes.io/instance: myhelm-1636668471

app.kubernetes.io/version: "1.15.2"

app.kubernetes.io/managed-by: Helm

spec:

type: ClusterIP

ports:

- port: 80

targetPort: http

protocol: TCP

name: http

selector:

app.kubernetes.io/name: myhelm

app.kubernetes.io/instance: myhelm-1636668471

---

# Source: myhelm/templates/deployment.yaml

apiVersion: apps/v1

kind: Deployment

metadata:

name: myhelm-1636668471

labels:

helm.sh/chart: myhelm-0.1.0

app.kubernetes.io/name: myhelm

app.kubernetes.io/instance: myhelm-1636668471

app.kubernetes.io/version: "1.15.2"

app.kubernetes.io/managed-by: Helm

spec:

replicas: 1

selector:

matchLabels:

app.kubernetes.io/name: myhelm

app.kubernetes.io/instance: myhelm-1636668471

template:

metadata:

labels:

app.kubernetes.io/name: myhelm

app.kubernetes.io/instance: myhelm-1636668471

spec:

serviceAccountName: myhelm-1636668471

securityContext:

{}

containers:

- name: myhelm

securityContext:

{}

image: "nginx:1.15.2"

imagePullPolicy: IfNotPresent

ports:

- name: http

containerPort: 80

protocol: TCP

livenessProbe:

httpGet:

path: /

port: http

readinessProbe:

httpGet:

path: /

port: http

resources:

{}

NOTES:

1. Get the application URL by running these commands:

export POD\_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=myhelm,app.kubernetes.io/instance=myhelm-1636668471" -o jsonpath="{.items[0].metadata.name}")

export CONTAINER\_PORT=$(kubectl get pod --namespace default $POD\_NAME -o jsonpath="{.spec.containers[0].ports[0].containerPort}")

echo "Visit http://127.0.0.1:8080 to use your application"

kubectl --namespace default port-forward $POD\_NAME 8080:$CONTAINER\_PORT

mahsan@u20srv:/tmp/myhelm$

mahsan@u20srv:/tmp/myhelm$ helm install ../myhelm --generate-name

NAME: myhelm-1636668711

LAST DEPLOYED: Thu Nov 11 22:11:52 2021

NAMESPACE: default

STATUS: deployed

REVISION: 1

NOTES:

1. Get the application URL by running these commands:

export POD\_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=myhelm,app.kubernetes.io/instance=myhelm-1636668711" -o jsonpath="{.itemsta.name}")

export CONTAINER\_PORT=$(kubectl get pod --namespace default $POD\_NAME -o jsonpath="{.spec.containers[0].ports[0].containerPort}")

echo "Visit http://127.0.0.1:8080 to use your application"

kubectl --namespace default port-forward $POD\_NAME 8080:$CONTAINER\_PORT

mahsan@u20srv:/tmp/myhelm$ helm ls

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

my-release default 1 2021-11-11 21:08:46.233234844 +0000 UTC deployed mariadb-9.8.1 10.5.13

myhelm-1636668711 default 1 2021-11-11 22:11:52.368471846 +0000 UTC deployed myhelm-0.1.0 1.15.2

registry default 1 2021-11-11 19:53:34.767374998 +0000 UTC deployed docker-registry-1.9.6 2.7.1

mahsan@u20srv:/tmp/myhelm$

mahsan@u20srv:/tmp/myhelm$ kubectl get deploy

NAME READY UP-TO-DATE AVAILABLE AGE

msa 1/1 1 1 3h18m

myhelm-1636668711 1/1 1 1 77s

registry-docker-registry 1/1 1 1 139m

mahsan@u20srv:/tmp/myhelm$ kubectl get all

NAME READY STATUS RESTARTS AGE

pod/msa-7cbd796f7-mqzt2 1/1 Running 0 3h18m

pod/my-release-mariadb-0 1/1 Running 0 64m

pod/myhelm-1636668711-687cc4f5d7-d8p5k 1/1 Running 0 89s

pod/registry-docker-registry-cdc5ff589-tpgxv 1/1 Running 0 139m

pod/test-pd 1/1 Running 0 3h9m

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

service/kubernetes ClusterIP 10.0.0.1 <none> 443/TCP 4h8m

service/msa LoadBalancer 10.0.132.81 20.80.153.202 80:31453/TCP 3h17m

service/my-release-mariadb ClusterIP 10.0.232.38 <none> 3306/TCP 64m

service/myhelm-1636668711 ClusterIP 10.0.49.115 <none> 80/TCP 89s

service/nginx ClusterIP 10.0.205.91 <none> 8080/TCP 3h24m

service/registry-docker-registry ClusterIP 10.0.98.130 <none> 5000/TCP 139m

NAME READY UP-TO-DATE AVAILABLE AGE

deployment.apps/msa 1/1 1 1 3h18m

deployment.apps/myhelm-1636668711 1/1 1 1 89s

deployment.apps/registry-docker-registry 1/1 1 1 139m

NAME DESIRED CURRENT READY AGE

replicaset.apps/msa-7cbd796f7 1 1 1 3h18m

replicaset.apps/myhelm-1636668711-687cc4f5d7 1 1 1 89s

replicaset.apps/registry-docker-registry-cdc5ff589 1 1 1 139m

NAME READY AGE

statefulset.apps/my-release-mariadb 1/1 64m

mahsan@u20srv:/tmp/myhelm$

mahsan@u20srv:/tmp$ wget https://azuredraft.blob.core.windows.net/draft/draft-v0.15.0-linux-amd64.tar.gz

--2021-11-11 22:20:39-- https://azuredraft.blob.core.windows.net/draft/draft-v0.15.0-linux-amd64.tar.gz

Resolving azuredraft.blob.core.windows.net (azuredraft.blob.core.windows.net)... 20.60.2.36

Connecting to azuredraft.blob.core.windows.net (azuredraft.blob.core.windows.net)|20.60.2.36|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 14321597 (14M) [application/x-tar]

Saving to: ‘draft-v0.15.0-linux-amd64.tar.gz’

draft-v0.15.0-linux-amd64.tar.gz 100%[============================================================================>] 13.66M 4.46MB/s in 3.1s

2021-11-11 22:20:42 (4.46 MB/s) - ‘draft-v0.15.0-linux-amd64.tar.gz’ saved [14321597/14321597]

mahsan@u20srv:/tmp$ ls ltr

ls: cannot access 'ltr': No such file or directory

mahsan@u20srv:/tmp$ ls -ltr

total 14032

-rw-rw-r-- 1 mahsan mahsan 14321597 May 29 2018 draft-v0.15.0-linux-amd64.tar.gz

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-timesyncd.service-eNPahh

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-resolved.service-jk9DQh

drwx------ 3 root root 4096 Nov 11 16:22 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-systemd-logind.service-Gc4GTi

drwx------ 3 root root 4096 Nov 11 16:23 snap.lxd

-rw-rw-r-- 1 mahsan mahsan 11148 Nov 11 19:10 get-helm-3

drwxr-xr-x 4 mahsan mahsan 4096 Nov 11 21:12 chart-MSA

drwx------ 3 root root 4096 Nov 11 21:15 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-fwupd.service-GS9F4i

drwx------ 3 root root 4096 Nov 11 21:15 systemd-private-a00647e2f86a4ad4b9b8f9adeb3e4039-upower.service-NVoqAh

drwxr-xr-x 4 mahsan mahsan 4096 Nov 11 22:03 myhelm

mahsan@u20srv:/tmp$ sudo tar xf draft-v0.15.0-linux-amd64.tar.gz --strip=1 -C /usr/local/bin linux-amd64/draft

mahsan@u20srv:/tmp$ draft init

Installing default plugins...

Downloading https://azuredraft.blob.core.windows.net/draft/pack-repo-v0.4.2-linux-amd64.tar.gz

% Total % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

100 3286k 100 3286k 0 0 1994k 0 0:00:01 0:00:01 --:--:-- 1995k

Preparing to install into /home/mahsan/.draft/plugins/draft-pack-repo

draft-pack-repo installed into /home/mahsan/.draft/plugins/draft-pack-repo/draft-pack-repo

Installed plugin: pack-repo

Installation of default plugins complete

Installing default pack repositories...

Installing pack repo from https://github.com/Azure/draft

Installed pack repository github.com/Azure/draft

Installation of default pack repositories complete

$DRAFT\_HOME has been configured at /home/mahsan/.draft.

Happy Sailing!

mahsan@u20srv:/tmp$ draft version

&version.Version{SemVer:"v0.15.0", GitCommit:"9d73889a1318a435d126bc5df846610d30cfbe7f", GitTreeState:"clean"}

mahsan@u20srv:/tmp$

###ACURE container registry ACR###

mahsan@u20srv:/tmp$ az group list -o table

Name Location Status

--------------------------------- ------------- ---------

msagroup2 canadacentral Succeeded

cloud-shell-storage-westus westus Succeeded

NetworkWatcherRG westus2 Succeeded

msagroup westus2 Succeeded

MyKubernetes westus2 Succeeded

MC\_MyKubernetes\_Cluster01\_westus2 westus2 Succeeded

mahsan@u20srv:/tmp$ az acr create --resource-group MyKubernetes --name LinuxStarACR --sku Basic

Resource provider 'Microsoft.ContainerRegistry' used by this operation is not registered. We are registering for you.

mahsan@u20srv:/tmp$ az acr create --resource-group MyKubernetes --name MsaStarACR --sku Basic

{

"adminUserEnabled": false,

"anonymousPullEnabled": false,

"creationDate": "2021-11-12T00:18:31.405878+00:00",

"dataEndpointEnabled": false,

"dataEndpointHostNames": [],

"encryption": {

"keyVaultProperties": null,

"status": "disabled"

},

"id": "/subscriptions/5d2deb94-44c1-4f65-88dc-22e6a9841a7f/resourceGroups/MyKubernetes/providers/Microsoft.ContainerRegistry/registries/MsaStarACR",

"identity": null,

"location": "westus2",

"loginServer": "msastaracr.azurecr.io",

"name": "MsaStarACR",

"networkRuleBypassOptions": "AzureServices",

"networkRuleSet": null,

"policies": {

"exportPolicy": {

"status": "enabled"

},

"quarantinePolicy": {

"status": "disabled"

},

"retentionPolicy": {

"days": 7,

"lastUpdatedTime": "2021-11-12T00:18:32.090506+00:00",

"status": "disabled"

},

"trustPolicy": {

"status": "disabled",

"type": "Notary"

}

},

"privateEndpointConnections": [],

"provisioningState": "Succeeded",

"publicNetworkAccess": "Enabled",

"resourceGroup": "MyKubernetes",

"sku": {

"name": "Basic",

"tier": "Basic"

},

"status": null,

"systemData": {

"createdAt": "2021-11-12T00:18:31.405878+00:00",

"createdBy": "nixmsa@outlook.com",

"createdByType": "User",

"lastModifiedAt": "2021-11-12T00:18:31.405878+00:00",

"lastModifiedBy": "nixmsa@outlook.com",

"lastModifiedByType": "User"

},

"tags": {},

"type": "Microsoft.ContainerRegistry/registries",

"zoneRedundancy": "Disabled"

}

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ az acr login --name MsaStarACR

Uppercase characters are detected in the registry name. When using its server url in docker commands, to avoid authentication errors, use all lowercase.

Login Succeeded

mahsan@u20srv:/tmp$

\*\*\* Draf have issues will check later \*\*\*

#####################

az aks list --query "[].kubernetesVersion"

[

"1.20.9"

]

mahsan@u20srv:/tmp$ az aks get-versions --location westus2 --output table

KubernetesVersion Upgrades

------------------- ----------------------------------------

1.22.2(preview) None available

1.22.1(preview) 1.22.2(preview)

1.21.2 1.22.1(preview), 1.22.2(preview)

1.21.1 1.21.2, 1.22.1(preview), 1.22.2(preview)

1.20.9 1.21.1, 1.21.2

1.20.7 1.20.9, 1.21.1, 1.21.2

1.19.13 1.20.7, 1.20.9

1.19.11 1.19.13, 1.20.7, 1.20.9

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ az aks upgrade --resource-group MyKubernetes \

> --name Cluster01 \

> --kubernetes-version 1.21.1 --yes --no-wait

mahsan@u20srv:/tmp$ az aks list --query "[].kubernetesVersion"

[

"1.21.1"

]

mahsan@u20srv:/tmp$

\*\* Creating Strorage account for persistant volume \*\*\*

mahsan@u20srv:/tmp$ az group list^C

mahsan@u20srv:/tmp$ az storage account create --resource-group MyKubernetes --name mystorageest1 --sku Standard\_LRS

{

"accessTier": "Hot",

"allowBlobPublicAccess": true,

"allowCrossTenantReplication": null,

"allowSharedKeyAccess": null,

"azureFilesIdentityBasedAuthentication": null,

"blobRestoreStatus": null,

"creationTime": "2021-11-12T01:58:05.283713+00:00",

"customDomain": null,

"defaultToOAuthAuthentication": null,

"enableHttpsTrafficOnly": true,

"enableNfsV3": null,

"encryption": {

"encryptionIdentity": null,

"keySource": "Microsoft.Storage",

"keyVaultProperties": null,

"requireInfrastructureEncryption": null,

"services": {

"blob": {

"enabled": true,

"keyType": "Account",

"lastEnabledTime": "2021-11-12T01:58:05.377470+00:00"

},

"file": {

"enabled": true,

"keyType": "Account",

"lastEnabledTime": "2021-11-12T01:58:05.377470+00:00"

},

"queue": null,

"table": null

}

},

"extendedLocation": null,

"failoverInProgress": null,

"geoReplicationStats": null,

"id": "/subscriptions/5d2deb94-44c1-4f65-88dc-22e6a9841a7f/resourceGroups/MyKubernetes/providers/Microsoft.Storage/storageAccounts/mystorageest1",

"identity": null,

"immutableStorageWithVersioning": null,

"isHnsEnabled": null,

"keyCreationTime": {

"key1": "2021-11-12T01:58:05.377470+00:00",

"key2": "2021-11-12T01:58:05.377470+00:00"

},

"keyPolicy": null,

"kind": "StorageV2",

"largeFileSharesState": null,

"lastGeoFailoverTime": null,

"location": "westus2",

"minimumTlsVersion": "TLS1\_0",

"name": "mystorageest1",

"networkRuleSet": {

"bypass": "AzureServices",

"defaultAction": "Allow",

"ipRules": [],

"resourceAccessRules": null,

"virtualNetworkRules": []

},

"primaryEndpoints": {

"blob": "https://mystorageest1.blob.core.windows.net/",

"dfs": "https://mystorageest1.dfs.core.windows.net/",

"file": "https://mystorageest1.file.core.windows.net/",

"internetEndpoints": null,

"microsoftEndpoints": null,

"queue": "https://mystorageest1.queue.core.windows.net/",

"table": "https://mystorageest1.table.core.windows.net/",

"web": "https://mystorageest1.z5.web.core.windows.net/"

},

"primaryLocation": "westus2",

"privateEndpointConnections": [],

"provisioningState": "Succeeded",

"publicNetworkAccess": null,

"resourceGroup": "MyKubernetes",

"routingPreference": null,

"sasPolicy": null,

"secondaryEndpoints": null,

"secondaryLocation": null,

"sku": {

"name": "Standard\_LRS",

"tier": "Standard"

},

"statusOfPrimary": "available",

"statusOfSecondary": null,

"tags": {},

"type": "Microsoft.Storage/storageAccounts"

}

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ vim azure-storage.yaml

mahsan@u20srv:/tmp$ kubectl create -f azure-storage.yaml

storageclass.storage.k8s.io/storageforapp created

mahsan@u20srv:/tmp$ cat azure-storage.yaml

apiVersion: storage.k8s.io/v1

kind: StorageClass

metadata:

name: storageforapp

provisioner: kubernetes.io/azure-disk

parameters:

storageaccounttype: Standard\_LRS

location: westus2

storageAccount: mystorageest1

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ kubectl get storageclass

NAME PROVISIONER RECLAIMPOLICY VOLUMEBINDINGMODE ALLOWVOLUMEEXPANSION AGE

azurefile kubernetes.io/azure-file Delete Immediate true 8h

azurefile-csi file.csi.azure.com Delete Immediate true 17m

azurefile-csi-premium file.csi.azure.com Delete Immediate true 17m

azurefile-premium kubernetes.io/azure-file Delete Immediate true 8h

default (default) disk.csi.azure.com Delete WaitForFirstConsumer true 17m

managed kubernetes.io/azure-disk Delete WaitForFirstConsumer true 17m

managed-csi disk.csi.azure.com Delete WaitForFirstConsumer true 17m

managed-csi-premium disk.csi.azure.com Delete WaitForFirstConsumer true 17m

managed-premium kubernetes.io/azure-disk Delete WaitForFirstConsumer true 8h

storageforapp kubernetes.io/azure-disk Delete Immediate false 80s

mahsan@u20srv:/tmp$

mahsan@u20srv:/tmp$ kubectl create -f azure-persistant.yaml

persistentvolumeclaim/claim-storage-for-app created

mahsan@u20srv:/tmp$ kubectl get pvc

NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS AGE

claim-storage-for-app Pending storageforapp 5s

data-my-release-mariadb-0 Bound pvc-71d42b1a-7612-4347-a690-73247d7eae39 8Gi RWO default 5h13m

data-wordpress-1636660664-mariadb-0 Bound pvc-796c3ec4-88e2-4e4a-8dab-7a74f5e52818 8Gi RWO default 6h24m

mahsan@u20srv:/tmp$ cat azure-persistant.yaml

apiVersion: v1

kind: PersistentVolumeClaim

metadata:

name: claim-storage-for-app

spec:

accessModes:

- ReadWriteOnce

storageClassName: storageforapp

resources:

requests:

storage: 5Gi

mahsan@u20srv:/tmp$

####

mahsan@u20srv:/tmp$ az group list -o table

Name Location Status

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msagroup2 canadacentral Succeeded

cloud-shell-storage-westus westus Succeeded

NetworkWatcherRG westus2 Succeeded

msagroup westus2 Succeeded

MyKubernetes westus2 Succeeded

MC\_MyKubernetes\_Cluster01\_westus2 westus2 Succeeded

mahsan@u20srv:/tmp$ az group delete --name myResourceGroup --yes --no-wait

(ResourceGroupNotFound) Resource group 'myResourceGroup' could not be found.

Code: ResourceGroupNotFound

Message: Resource group 'myResourceGroup' could not be found.

mahsan@u20srv:/tmp$ az group delete --name MyKubernetes --yes --no-wait

mahsan@u20srv:/tmp$ az group delete --name MC\_MyKubernetes\_Cluster01\_westus2 --yes --no-wait

mahsan@u20srv:/tmp$ az group list -o table

Name Location Status

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msagroup2 canadacentral Succeeded

cloud-shell-storage-westus westus Succeeded

NetworkWatcherRG westus2 Succeeded

msagroup westus2 Succeeded

MyKubernetes westus2 Deleting

MC\_MyKubernetes\_Cluster01\_westus2 westus2 Deleting

mahsan@u20srv:/tmp$