Installing Azure ARC Data Controller on AKS Script

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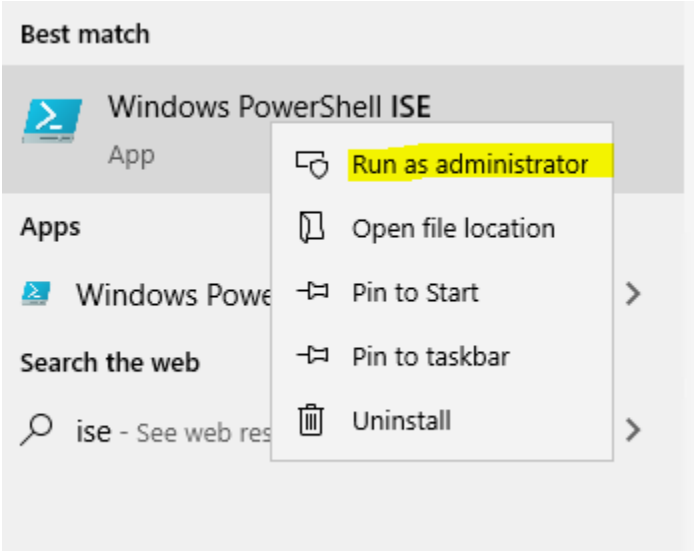
Installing in Direct Mode

WARNING – Running this PowerShell will deploy a 3 node AKS cluster each node being a standard_D8s_v3. If left running the total cost of this demo will be in excess of $840/mo.

When you are fished with your demo delete the Resource Group you create and a second networking Resource group created on your behalf called MC_<your.rg.name>_<your.aks.cluster.name>_eastus.

To run the deploy



Once you are in PowerShell check your execution policy with the following commands. You will need Unrestricted for LocalMachine.

Check your execution policy using the following command.

```
Get-ExecutionPolicy -list
```

If LocalMachine is not Unrestricted issue the following command.

```
Set-ExecutionPolicy -scope LocalMachine Unrestricted
```

No click file> Open and open the PowerShell Script called:

Deploy-arc-aks-direct-mode.ps1

You screen should look like this:

File Edit View Tools Debug Add-ons Help

deploy-arc-aks-direct-mode.ps1

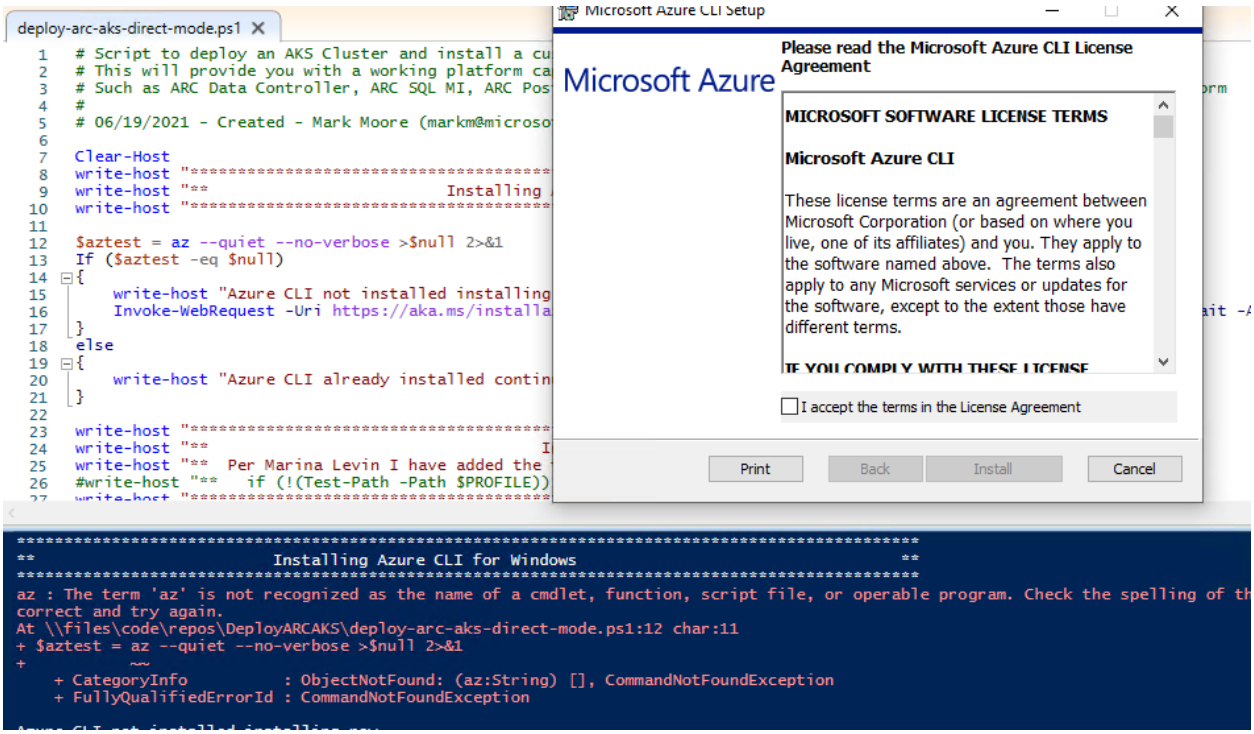
```
# Script to deploy an AKS Cluster and install a custom location and ARC for Kubernetes
# This will provide you with a working platform capable of hosting all of the ARC services that run on Kubernetes
# Such as ARC Data Controller, ARC SQL MI, ARC Postgres (Citus), ARC Azure ML.  More services are coming to this platform
#
# 06/19/2021 - Created - Mark Moore (markm@microsoft.com)

Clear-Host
write-host "*****************************************************************************************"
write-host "**                          Installing Azure CLI for Windows                           **"
write-host "*****************************************************************************************"

$aztest = az
If ($aztest -eq $null)
{
    write-host "Azure CLI not installed installing now"
    Invoke-WebRequest -Uri https://aka.ms/installazurecliwindows -OutFile .\AzureCLI.msi; Start-Process msiexec.exe -Wait -ArgumentList '/I AzureCLI.msi'
}
else
{
    write-host "Azure CLI already installed continuing to next step"
}

write-host "*****************************************************************************************"
write-host "**                                     Installing Helm                                 **"
write-host "**  Per Marina Levin I have added the following line to resolve issues install choco   **"
write-host "**   if (!(Test-Path -Path $PROFILE)) { New-Item -ItemType File -Path $PROFILE -Force }  **"
write-host "*****************************************************************************************"
```

```
PS C:\Windows\system32> Get-ExecutionPolicy -list

        Scope ExecutionPolicy
        ----- ---------------
MachinePolicy       Undefined
   UserPolicy       Undefined
      Process       Undefined
  CurrentUser       Undefined
 LocalMachine       Undefined


PS C:\Windows\system32> Set-ExecutionPolicy -scope LocalMachine Unrestricted

PS C:\Windows\system32> Get-ExecutionPolicy -list

        Scope ExecutionPolicy
        ----- ---------------
MachinePolicy       Undefined
   UserPolicy       Undefined
      Process       Undefined
  CurrentUser       Undefined
 LocalMachine    Unrestricted


PS C:\Windows\system32> |
```

Begin Executing the script by pressing the run button.

Installing Tools

This PowerShell script will install any tools required that you do not have. Seeing error messages that a tool is not installed is normal and is the result of me testing to see if the tool is present.



The script will download and install the required tool. Accept the license agreement and click install for each tool installed if prompted.

Once the tools are installed, a web browser will open and you will be prompted to login to your Azure Account.

Choose a Subscription

The PowerShell script will log you in to Azure using the AZ command. A browser windows will start and prompt you for your credentials.

Once you successfully login, you will be presented with a list of subscriptions you can access.

Choose the subscription by the number next to it.

	Subscription name	Subscription ID	Status
0	markm - Internal Consumption	[redacted]	Enabled
1	[redacted]	[redacted]	Enabled
2			Enabled
3			Enabled
4			Enabled
5			Enabled
6			Enabled
7			Enabled
8			Enabled
9			Enabled
10			Enabled
11			Enabled
12			Enabled
13			Enabled
14			Enabled
15			Enabled
16			Enabled
17			Enabled
18			Enabled
19			Enabled
20			Enabled
21			Enabled
22			Enabled
23			Enabled
24			Enabled
25			Enabled
26			Enabled
27			Enabled
28			Enabled
29			Enabled

Enter the number next to the subscription you would like to host AKS and all components for the demo: 0

The subscription you have chosen will be written to the console and you will be asked to confirm your selection.

Installing Kubernetes Extensions

Ignore warning messages about the extensions being in preview.

Creating a Resource Group

You are prompted to enter the name of the resource group you want to use for your AKS Cluster.

Check to ensure Operations Management is enabled in your subscription.

Create the AKS Cluster

Enter the name you would like to call your AKS cluster.

Installing Kubernetes Extensions

It will take a few minutes before you see additional output. If the Kubernetes extensions are not installed, you will see warning messages about them being in preview as they are installed.

Checking if Operations Management is enable in your subscription. If it is not it will be enabled.

Installing the AKS Cluster.

Creating the cluster will take some time. When it is complete you will see a description of your cluster written to the console as JSON it should look something like this:

```
Merged "ARCAKSclu2" as current context in C:\Users\markm\.kube\config
NAME                                STATUS   ROLES   AGE     VERSION
aks-nodepool1-36882054-vmss000000   Ready    agent   93s     v1.19.11
aks-nodepool1-36882054-vmss000001   Ready    agent   2m10s   v1.19.11
aks-nodepool1-36882054-vmss000002   Ready    agent   2m8s    v1.19.11
NAMESPACE     NAME                                  READY   STATUS    RESTARTS   AGE     IP            NODE                                NOMINATED NODE   READINESS GATES
kube-system   azure-ip-masq-agent-5lm6f             1/1     Running   0          2m8s    10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   azure-ip-masq-agent-mbfh2             1/1     Running   0          2m10s   10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   azure-ip-masq-agent-vmz9p             1/1     Running   0          93s     10.240.0.4    aks-nodepool1-36882054-vmss000000   <none>           <none>
kube-system   coredns-76c97c8599-4nwkl              1/1     Running   0          114s    10.244.1.5    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   coredns-76c97c8599-8zcb6              1/1     Running   0          3m12s   10.244.0.3    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   coredns-autoscaler-599949fd86-6d4ps   1/1     Running   0          3m7s    10.244.1.4    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   konnectivity-agent-947765fc4-6qxw6    1/1     Running   0          3m9s    10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   konnectivity-agent-947765fc4-6tgwp    1/1     Running   0          3m9s    10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   kube-proxy-2rb9t                      1/1     Running   0          2m10s   10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   kube-proxy-447dt                      1/1     Running   0          93s     10.240.0.4    aks-nodepool1-36882054-vmss000000   <none>           <none>
kube-system   kube-proxy-cj9r7                      1/1     Running   0          2m8s    10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   metrics-server-77c8679d7d-xdkc7       1/1     Running   0          3m12s   10.244.1.3    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   omsagent-7qsbb                        1/1     Running   0          2m10s   10.244.0.2    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   omsagent-cl4hg                        1/1     Running   0          2m8s    10.244.1.2    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   omsagent-rs-74c4f49f7f-d5j7r          1/1     Running   0          3m11s   10.244.0.4    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   omsagent-tlcm2                        1/1     Running   0          93s     10.244.2.2    aks-nodepool1-36882054-vmss000000   <none>           <none>
Press Enter to continue::
```

Installing a Custom Location

A Custom Location is a service you can install once Azure ARC for Kubernetes has been installed. I have chosen the custom location name of 'arcdemo'. You can modify the PowerShell script and insert your own name if you wish.

Creating a Service Principal

The Azure ARC Data Controller requires a service principal to use to upload data to azure. In this section I prompt you for the name you would prefer. This name must be unique for the entire tenant, not just your subscription so I generate a guid and append the first 4 characters of that guid to what ever name you choose to ensure it is unique.

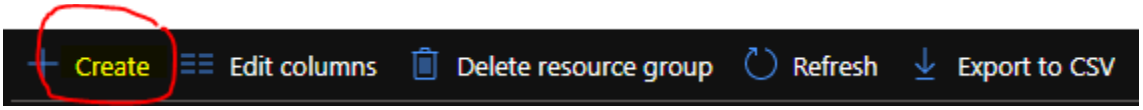
Installing the Data Controller

This section must be done via the portal. The product team does not yet support using the AZ command to install a Data Controller. This will change in the future. When it does I will update this script to create the Data Controller for you.

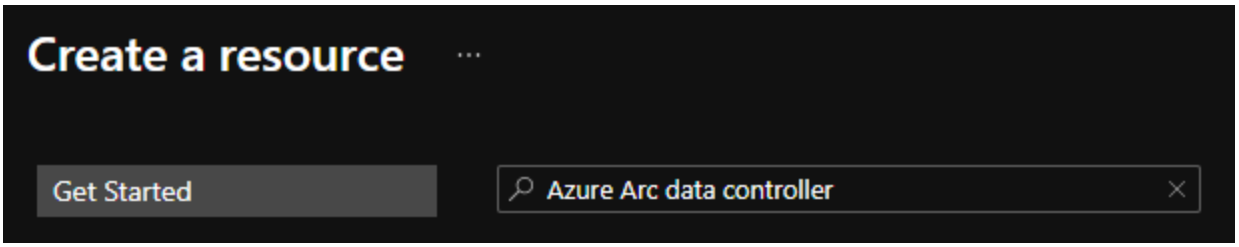
Go to https://portal.azure.com and login.

Go to the resource group you created in the PowerShell script.

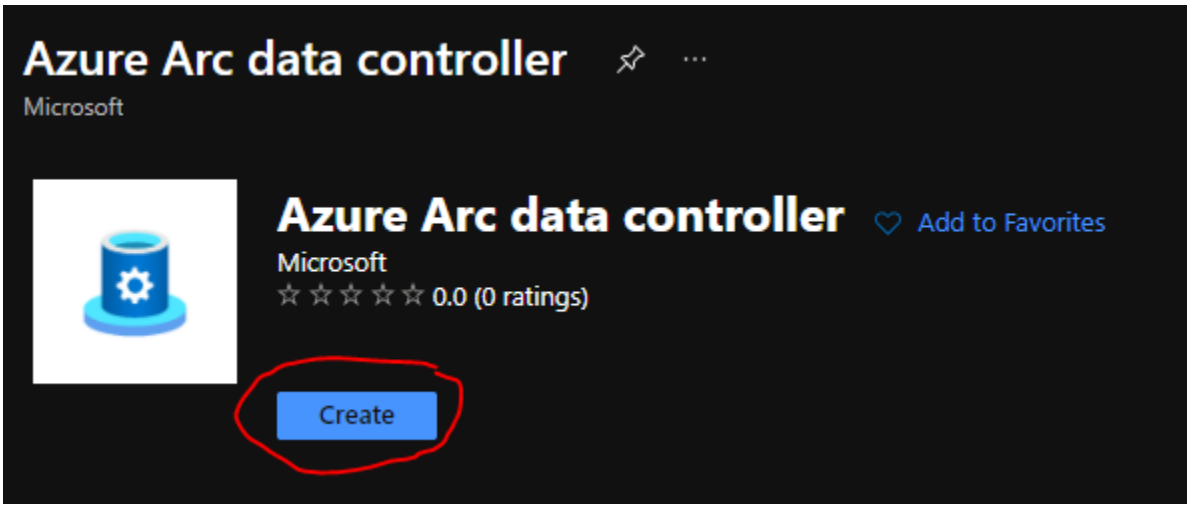
Click Create



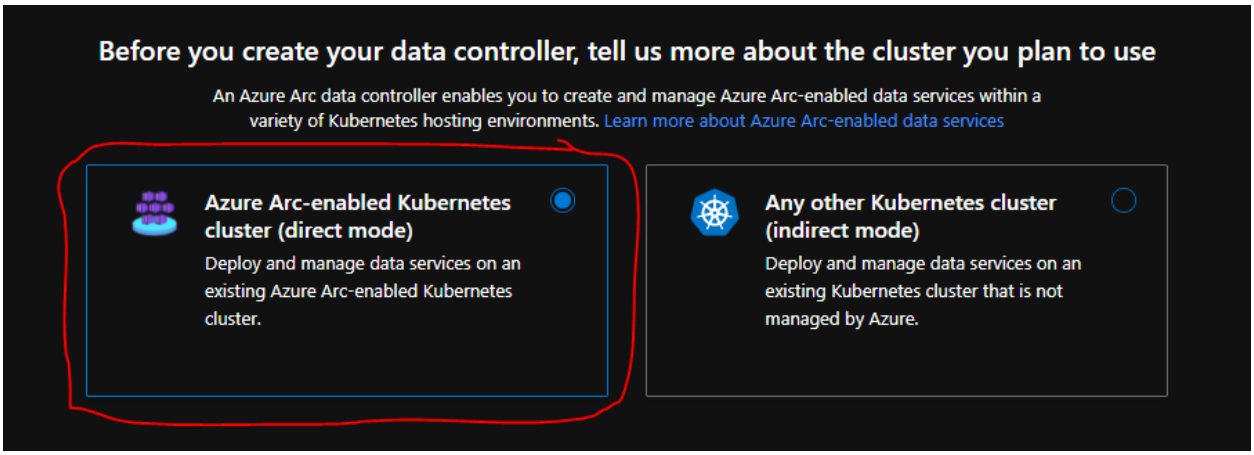
In the search box enter 'Azure Arc data controller' and select Azure ARC Data Controller and press enter.



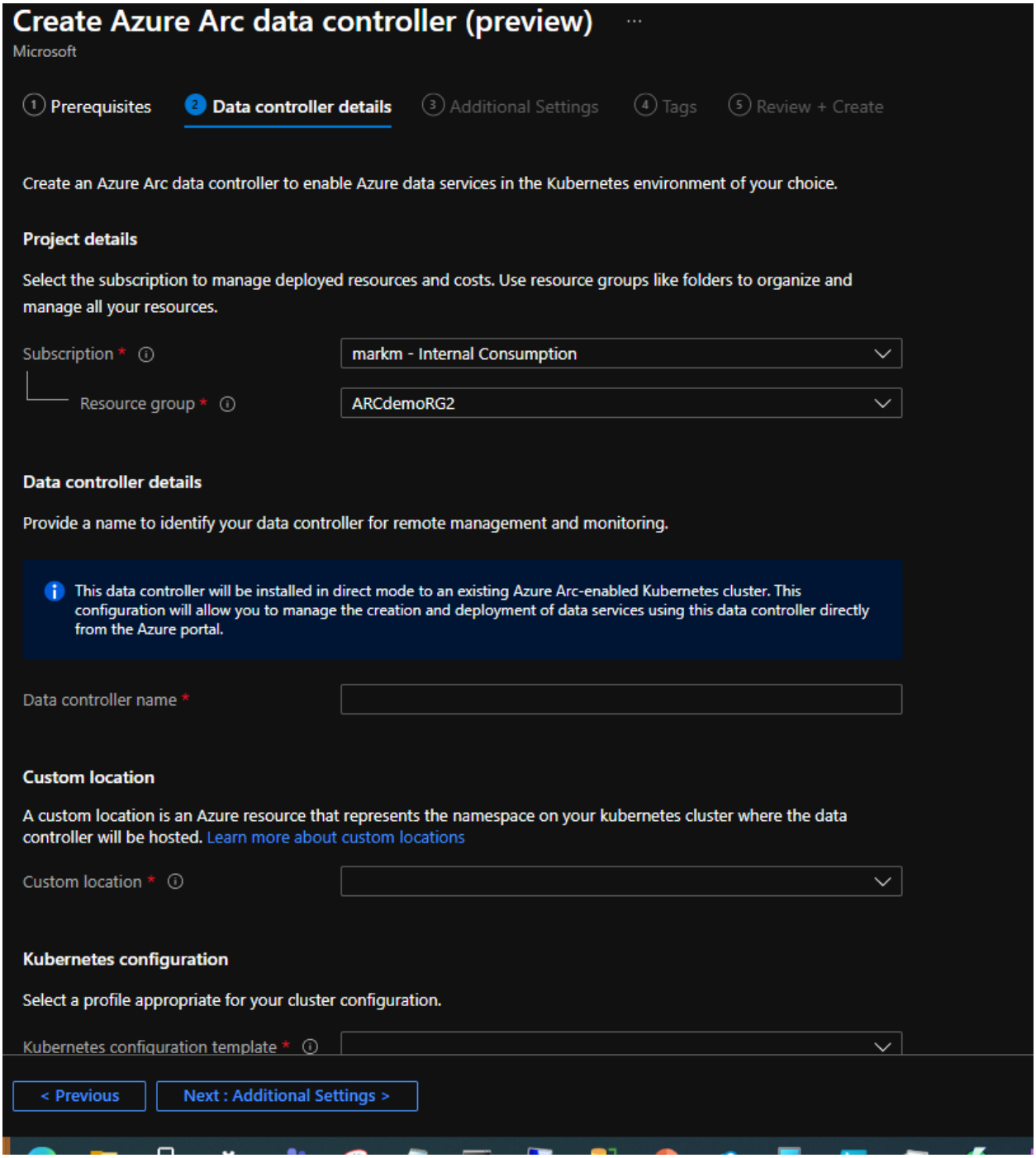
Click Create



Select direct mode and click Next: Data controller details >



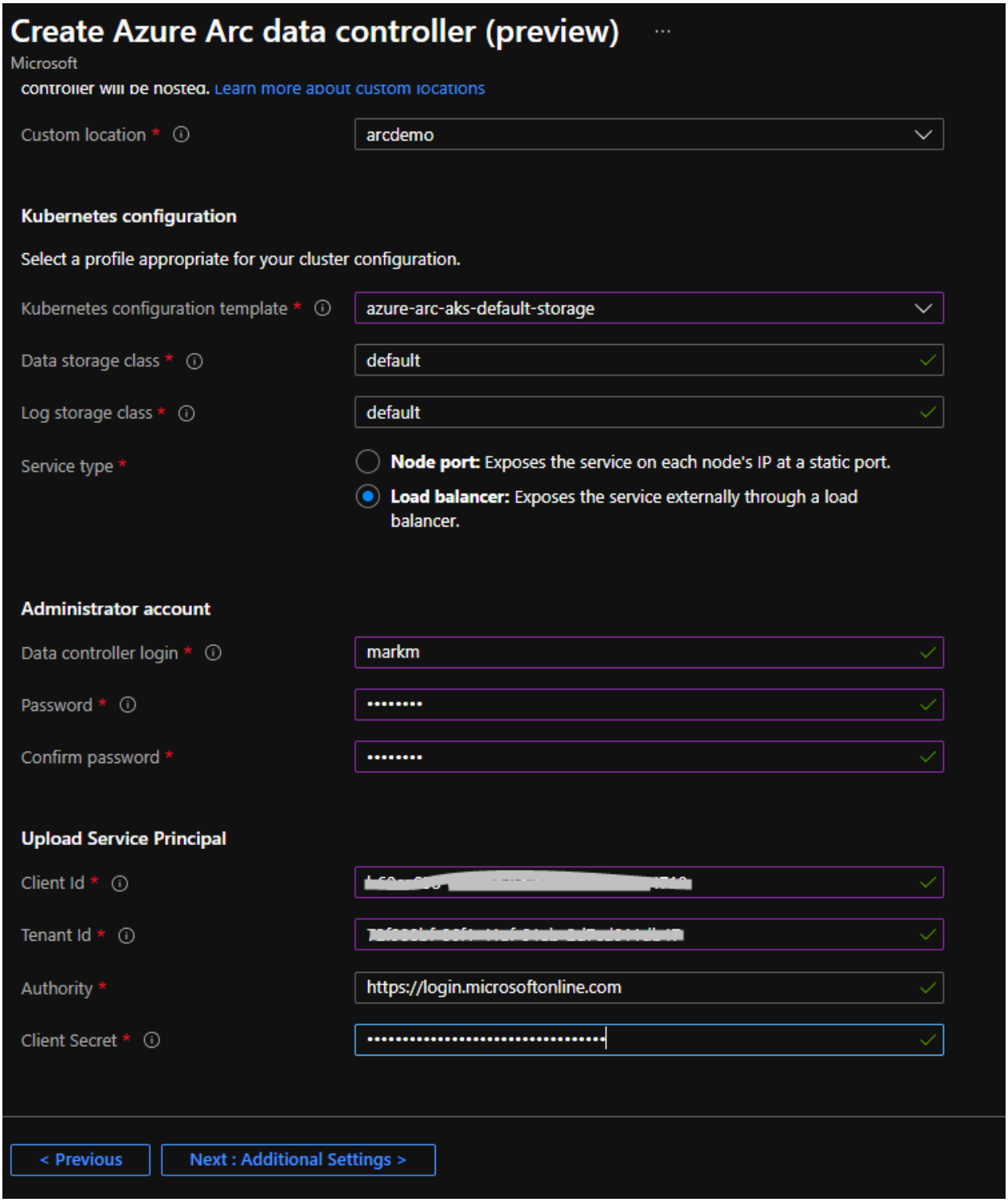
Your resource group should be pre-populated. If not select the resource group name you provided during the script.



Enter the name for your Data Controller.

For the custom location select arcdemo from the drop down.

Scroll down to the next section.

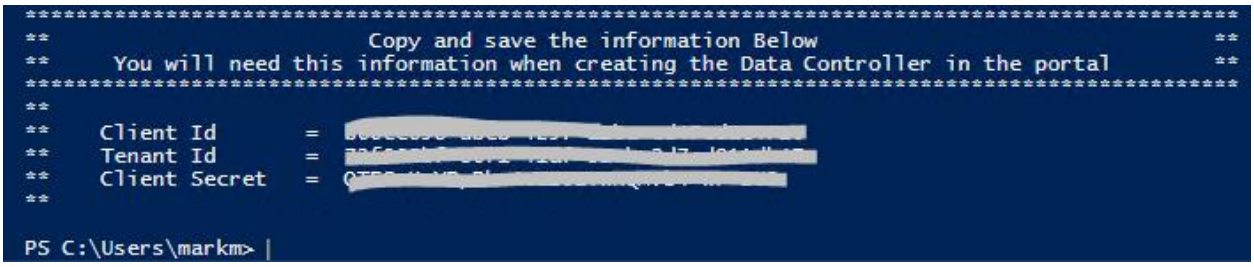


Choose 'azure-arc-aks-default-storage' for the configuration template.

Choose 'Load balancer' for the service type.

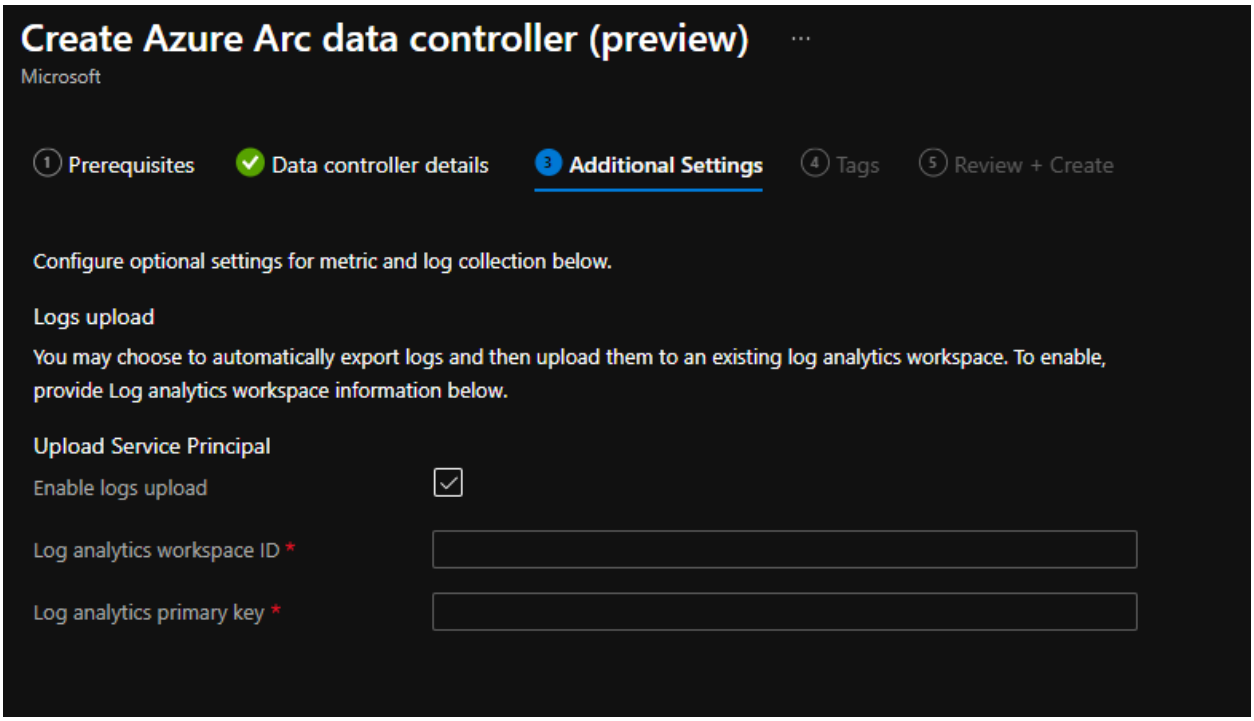
Enter a username and password.

The service Principle settings were provided to you at the end of the script. Just cut and paste the values into the portal.



Click Next: Additional Settings >

If you want to use Log Analytics for your log files, Enter the information below:



If you choose not to use Log Analytics simply uncheck the box next to Enable logs upload

Click Nets: Tags >

Enter any tags you would like to use and click

'Next: Review + Create >'

If everything looks good click 'Create'

Before you can create Data Controller resources such as SQL MI or Postgres Hyperscale, you will need to wait for the data controller deployment to complete.

You can monitor the deployment in a CMD windows.

CD to C:\Users\yourusersname\.azure-kubectl and enter the following command:

Kubectl get pods -A -o wide

You will see three namespaces.

Kube-system (This is your Kubernetes Cluster)

Azure-arc (This is Arc Enables Kubernetes)

Arc (This is your Data Controller)

It will look similar to this:

```
C:\Users\markm\.azure-kubectl>kubectl get pods -A -o wide
NAMESPACE     NAME                                          READY   STATUS    RESTARTS   AGE     IP            NODE                                NOMINATED NODE   READINESS GATES
arc           bootstrapper-9g794                            1/1     Running   0          51m     10.244.0.6    aks-nodepool1-36882054-vmss000001   <none>           <none>
arc           control-8t9zv                                 2/2     Running   0          5m53s   10.244.2.11   aks-nodepool1-36882054-vmss000000   <none>           <none>
arc           controldb-0                                   2/2     Running   0          4m24s   10.244.0.8    aks-nodepool1-36882054-vmss000001   <none>           <none>
arc           logsdb-0                                      1/1     Running   0          2m26s   10.244.1.11   aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           logsui-zpcvn                                  1/1     Running   0          2m27s   10.244.1.7    aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           metricsdb-0                                   1/1     Running   0          2m27s   10.244.1.10   aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           metricsdc-2vltp                               1/1     Running   0          2m26s   10.244.0.10   aks-nodepool1-36882054-vmss000001   <none>           <none>
arc           metricsdc-5vwrc                               1/1     Running   0          2m26s   10.244.1.8    aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           metricsdc-cvsfp                               1/1     Running   0          2m26s   10.244.2.12   aks-nodepool1-36882054-vmss000000   <none>           <none>
arc           metricsui-rvnp5                               1/1     Running   0          2m25s   10.244.1.9    aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           mgmtproxy-66mr4                               2/2     Running   0          2m27s   10.244.0.9    aks-nodepool1-36882054-vmss000001   <none>           <none>
azure-arc     cluster-metadata-operator-7cff574c4f-thjpv    2/2     Running   0          53m     10.244.2.3    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     clusterconnect-agent-6dfd867c68-wtjdf         3/3     Running   0          53m     10.244.2.5    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     clusteridentityoperator-fd498bf96-vqf4g       2/2     Running   0          53m     10.244.1.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
azure-arc     config-agent-5696bcffd9-5rlfw                 2/2     Running   0          53m     10.244.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
azure-arc     controller-manager-8676dcdc6-8mrvm            2/2     Running   0          53m     10.244.2.10   aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     extension-manager-6d7b7546c7-ck49w            2/2     Running   0          53m     10.244.2.4    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     flux-logs-agent-6596f58c56-m8twc              1/1     Running   0          53m     10.244.2.8    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     kube-aad-proxy-c9b84df8c-g57hb                2/2     Running   0          53m     10.244.2.9    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     metrics-agent-5b9b94754f-wsjhr                2/2     Running   0          53m     10.244.2.6    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     resource-sync-agent-f8c7c6b6b-c85rx           2/2     Running   0          53m     10.244.2.7    aks-nodepool1-36882054-vmss000000   <none>           <none>
kube-system   azure-ip-masq-agent-5lm6f                     1/1     Running   0          59m     10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   azure-ip-masq-agent-mbfh2                     1/1     Running   0          59m     10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   azure-ip-masq-agent-vmz9p                     1/1     Running   0          59m     10.240.0.4    aks-nodepool1-36882054-vmss000000   <none>           <none>
kube-system   coredns-76c97c8599-4nwkl                      1/1     Running   0          59m     10.244.1.5    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   coredns-76c97c8599-8zcb6                      1/1     Running   0          60m     10.244.0.3    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   coredns-autoscaler-599949fd86-6d4ps           1/1     Running   0          60m     10.244.1.4    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   konnectivity-agent-947765fc4-6qxw6            1/1     Running   0          60m     10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   konnectivity-agent-947765fc4-6tgwp            1/1     Running   0          60m     10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   kube-proxy-2rb9t                              1/1     Running   0          59m     10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   kube-proxy-447dt                              1/1     Running   0          59m     10.240.0.4    aks-nodepool1-36882054-vmss000000   <none>           <none>
kube-system   kube-proxy-cj9r7                              1/1     Running   0          59m     10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   metrics-server-77c8679d7d-xdkc7               1/1     Running   0          60m     10.244.1.3    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   omsagent-7qsbb                                1/1     Running   0          59m     10.244.0.2    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   omsagent-cl4hg                                1/1     Running   1          59m     10.244.1.2    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   omsagent-rs-74c4f49f7f-d5j7r                  1/1     Running   0          60m     10.244.0.4    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   omsagent-tlcm2                                1/1     Running   1          59m     10.244.2.2    aks-nodepool1-36882054-vmss000000   <none>           <none>

C:\Users\markm\.azure-kubectl>
```

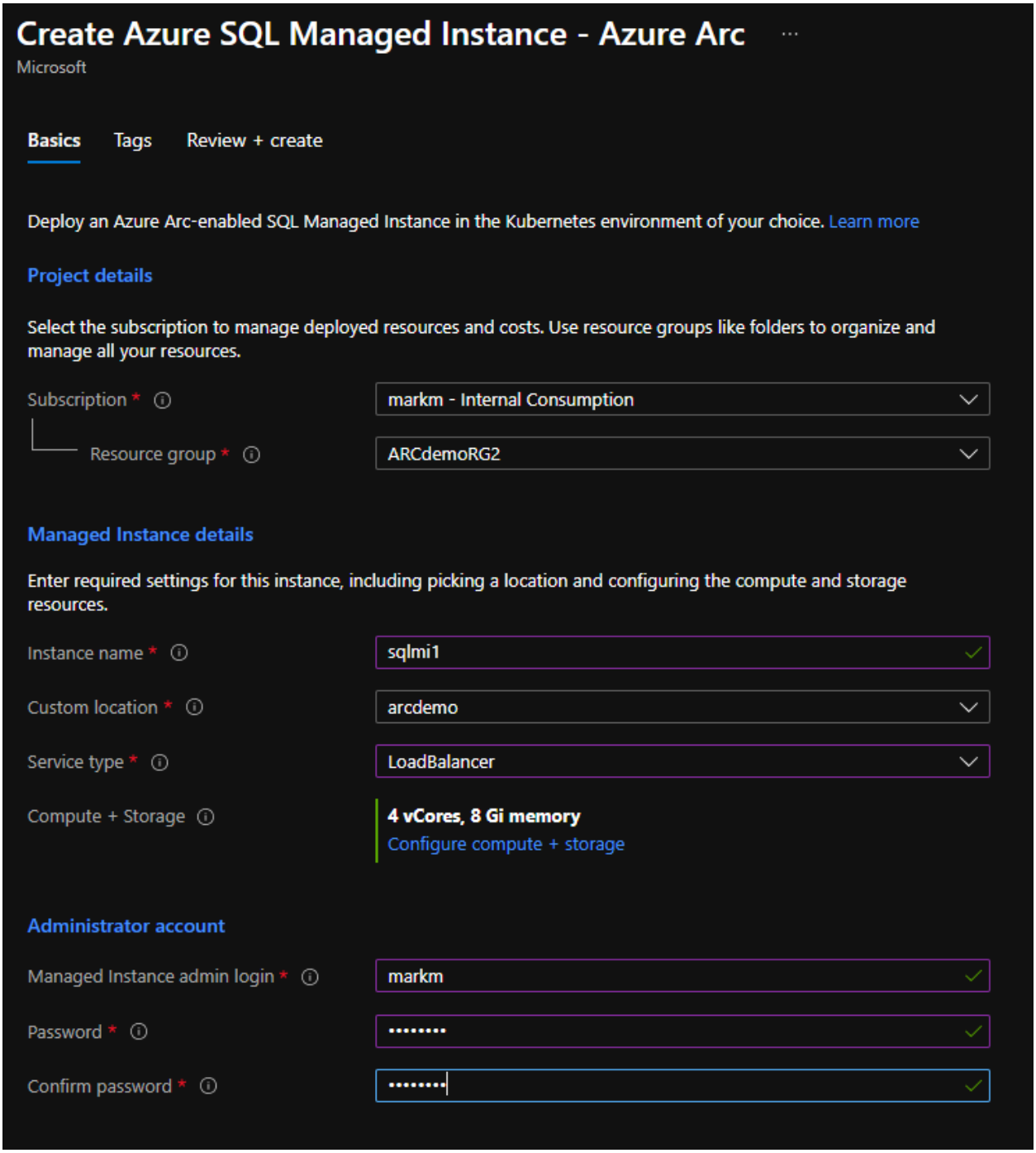
You will need to wait until all of the Pods have a running state before you create Data Controller Services.

Create a SQL Managed Instance

Go back to your resource group and click on create again.

In the search box enter 'Azure SQL Managed Instance – Azure Arc

Click Create



You resource group should be prepopulated, if it is not choose the resource group name you chose during script execution.

Enter a name for your SQL MI

Select arcdemo as the Custom Location

Choose Load Balancer

You can configure your compute and storage or leave the defaults

Choose a username / password combination for your SQL Instance. You can login to the instance using this username and password in SSMS when it is deployed.

You can check the deployment of the Managed Instance using kubectl again from the CMD prompt.

kubectl get pods -A -o wide

```
C:\Users\markm\.azure-kubectl>kubectl get pods -A -o wide
NAMESPACE     NAME                                          READY   STATUS    RESTARTS   AGE   IP            NODE                                NOMINATED NODE   READINESS GATES
arc           bootstrapper-9g794                            1/1     Running   0          63m   10.244.0.6    aks-nodepool1-36882054-vmss000001   <none>           <none>
arc           control-8t9zv                                 2/2     Running   0          17m   10.244.2.11   aks-nodepool1-36882054-vmss000000   <none>           <none>
arc           controldb-0                                   2/2     Running   0          15m   10.244.0.8    aks-nodepool1-36882054-vmss000001   <none>           <none>
arc           logsdb-0                                      1/1     Running   0          13m   10.244.1.11   aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           logsui-zpcvn                                  1/1     Running   0          13m   10.244.1.7    aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           metricsdb-0                                   1/1     Running   0          13m   10.244.1.10   aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           metricsdc-2vltp                               1/1     Running   0          13m   10.244.0.10   aks-nodepool1-36882054-vmss000001   <none>           <none>
arc           metricsdc-5vwrc                               1/1     Running   0          13m   10.244.1.8    aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           metricsdc-cvsfp                               1/1     Running   0          13m   10.244.2.12   aks-nodepool1-36882054-vmss000000   <none>           <none>
arc           metricsui-rvnp5                               1/1     Running   0          13m   10.244.1.9    aks-nodepool1-36882054-vmss000002   <none>           <none>
arc           mgmtproxy-66mr4                               2/2     Running   0          13m   10.244.0.9    aks-nodepool1-36882054-vmss000001   <none>           <none>
arc           sqlmi1-0                                      0/3     Pending   0          5s    <none>        <none>                              <none>           <none>
azure-arc     cluster-metadata-operator-7cff574c4f-thjpv    2/2     Running   0          65m   10.244.2.3    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     clusterconnect-agent-6dfd867c68-wtjdf         3/3     Running   0          65m   10.244.2.5    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     clusteridentityoperator-fd498bf96-vqf4g       2/2     Running   0          65m   10.244.1.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
azure-arc     config-agent-5696bcffd9-5rlfw                 2/2     Running   0          65m   10.244.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
azure-arc     controller-manager-8676dcdc6-8mrvm            2/2     Running   0          65m   10.244.2.10   aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     extension-manager-6d7b7546c7-ck49w            2/2     Running   0          65m   10.244.2.4    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     flux-logs-agent-6596f58c56-m8twc              1/1     Running   0          65m   10.244.2.8    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     kube-aad-proxy-c9b84df8c-g57hb                2/2     Running   0          65m   10.244.2.9    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     metrics-agent-5b9b94754f-wsjhr                2/2     Running   0          65m   10.244.2.6    aks-nodepool1-36882054-vmss000000   <none>           <none>
azure-arc     resource-sync-agent-f8c7c6b6b-c85rx           2/2     Running   0          65m   10.244.2.7    aks-nodepool1-36882054-vmss000000   <none>           <none>
kube-system   azure-ip-masq-agent-5lm6f                     1/1     Running   0          71m   10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   azure-ip-masq-agent-mbfh2                     1/1     Running   0          71m   10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   azure-ip-masq-agent-vmz9p                     1/1     Running   0          70m   10.240.0.4    aks-nodepool1-36882054-vmss000000   <none>           <none>
kube-system   coredns-76c97c8599-4nwkl                      1/1     Running   0          71m   10.244.1.5    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   coredns-76c97c8599-8zcb6                      1/1     Running   0          72m   10.244.0.3    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   coredns-autoscaler-599949fd86-6d4ps           1/1     Running   0          72m   10.244.1.4    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   konnectivity-agent-947765fc4-6qxw6            1/1     Running   0          72m   10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   konnectivity-agent-947765fc4-6tgwp            1/1     Running   0          72m   10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   kube-proxy-2rb9t                              1/1     Running   0          71m   10.240.0.5    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   kube-proxy-447dt                              1/1     Running   0          70m   10.240.0.4    aks-nodepool1-36882054-vmss000000   <none>           <none>
kube-system   kube-proxy-cj9r7                              1/1     Running   0          71m   10.240.0.6    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   metrics-server-77c8679d7d-xdkc7               1/1     Running   0          72m   10.244.1.3    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   omsagent-7qsbb                                1/1     Running   0          71m   10.244.0.2    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   omsagent-cl4hg                                1/1     Running   1          71m   10.244.1.2    aks-nodepool1-36882054-vmss000002   <none>           <none>
kube-system   omsagent-rs-74c4f49f7f-d5j7r                  1/1     Running   0          72m   10.244.0.4    aks-nodepool1-36882054-vmss000001   <none>           <none>
kube-system   omsagent-tlcm2                                1/1     Running   1          70m   10.244.2.2    aks-nodepool1-36882054-vmss000000   <none>           <none>
```

You will see your SQL MI pod in a pending state. Under the Ready column you will see 0/3, 1/3 or 2/3 when the state is pending. This means the SQL MI pod consist of 3 containers and you can see how many containers have been deployed.

Once you see 3/3 the state will be Running and you can login to your Managed Instance is SSMS.

Go to your resource group with the Kubernetes cluster and click on the Managed Instance Resource.

You can connect to your managed Instance with SSMS using the External Endpoint.

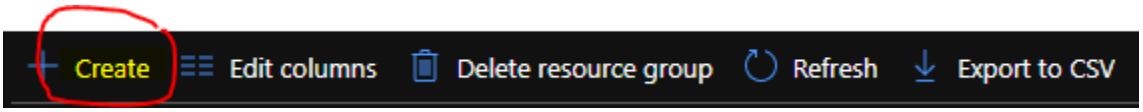
Delete Feedback

Essentials

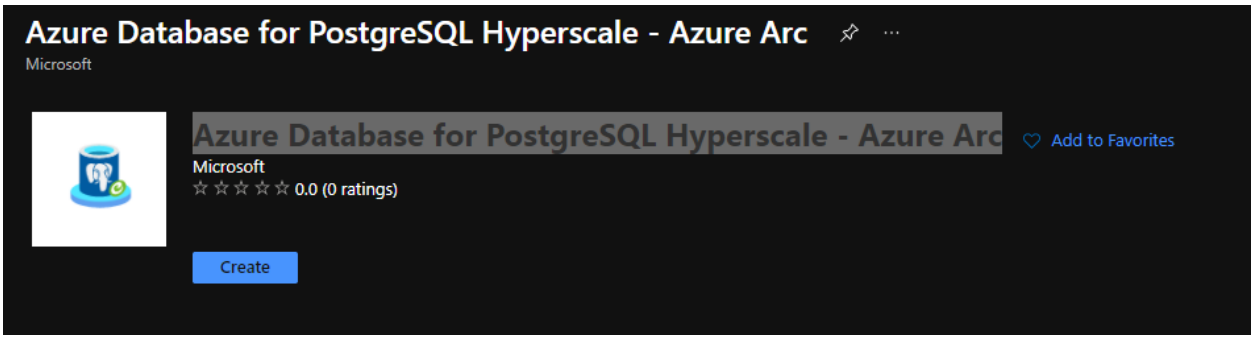
Resource group	: ARCdemoRG2	Data controller	: arcdc
Location	: East US	Namespace	: arc
Subscription	: markm - Internal Consumption	External endpoint	: 52.146.84.43,1433
Subscription ID	: 9ac817f3-c68f-4899-89cb-f64c8cde9fd3	Last upload	: a minute ago

Create a Postgres Hyperscale Instance

Go to your resource group, and click on Create



Azure Database for PostgresSQL Hyperscale – Azure ARC in the search bar.



Click Create

Home > ARCdemoRG2 > Create a resource > Azure Database for PostgreSQL Hyperscale - Azure Arc >

Create an Azure Arc-enabled PostgreSQL Hyperscale server group

Azure Arc-enabled PostgreSQL Hyperscale

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * markm - Internal Consumption

Resource group * ARCdemoRG2

PostgreSQL Hyperscale server group details

Enter required settings for this instance, including picking a location and configuring the compute and storage resources.

Azure Arc-enabled PostgreSQL Hyperscale Name * pg1

Custom location * arcdemo

Only custom locations to which you have access and for which a data controller has been configured are shown. Learn more.

Service type * LoadBalancer

Compute + Storage **2 workers, vCores, 0.25 Gib memory**
Configure compute + storage

Extensions citus

Administrator account

Password * ••••••••

Confirm password * ••••••••

Review + create | Previous | Next: Tags

The resource group should be prepopulated with the one you created during script execution. If it is not select it.

Name your Postgres Instance

Select arcdemo as the custom location.

Select Load Balancer.

You can select the default configuration. I chose 2 workers in the example above.

Note: workers are used for Hyperscale. If you choose 0 workers you will have a single Postgres Pod running on one node. Since we only have a 3 node cluster I would not choose more than 2 workers. More than that will just deploy on nodes that already have a worker.

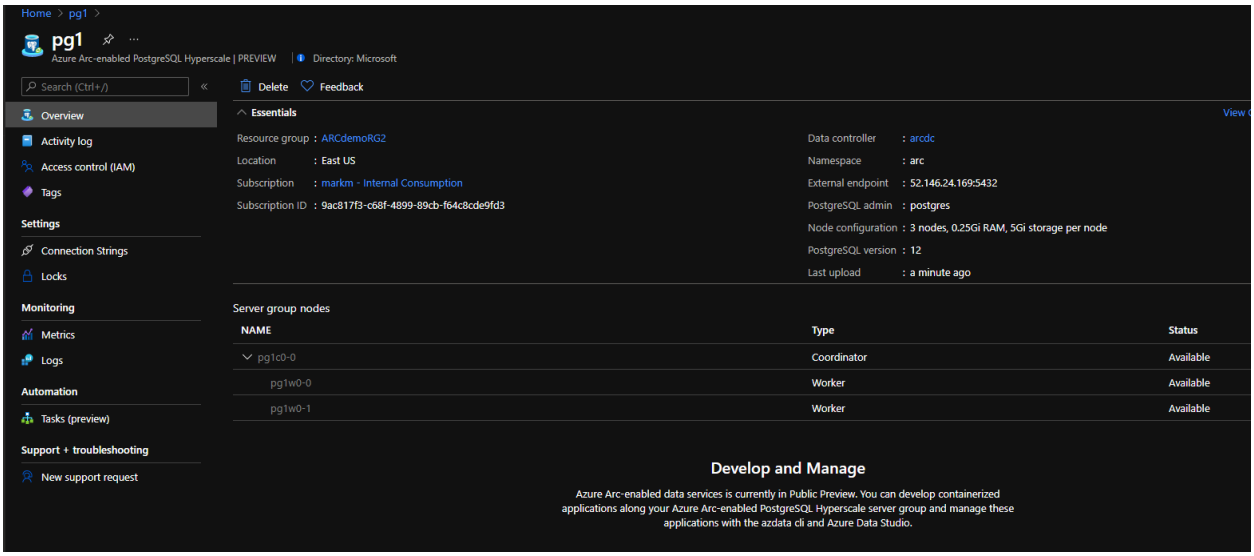
Enter a Password for you Postgres Instance.

Click Review + Create

Click Create

You can check the status of the deployment as shown in the SQL MI deployment.

Go to the deployed Postgres Instance to get your public endpoint to connect to the instance in your tool of choice. Azure Data Studio will work.



Install Indirect Mode

Documentation will be provided in the future. Required input is at a minimum, you will still need to login by entering credentials, choose a subscription and provide user names and passwords for the data controller and Postgres Instance.