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1 DEPLOYING TO PILOT ENVIRONMENT (AZURE SUBSCRIPTION)

1.1 DEPLOYMENT STEPS

1. Create an Automation account with RunAs Service principal. Unfortunately ARM templates don't allow for creating AD service principals as yet, so this step is currently a manual.
    - Refer the blog https://azure.microsoft.com/en-us/documentation/articles/automation-sec-configure-azure-runas-account/ for the steps.
    - Creation of ServicePrincipal has a propensity to fail randomly. A basic verification whether it was successfully created is **mandatory**
2. Capture the AutomationAccount name and the resourcegroup. You will need them as parameters when you 'Deploy to Azure'
3. Deploy Arm template from this location

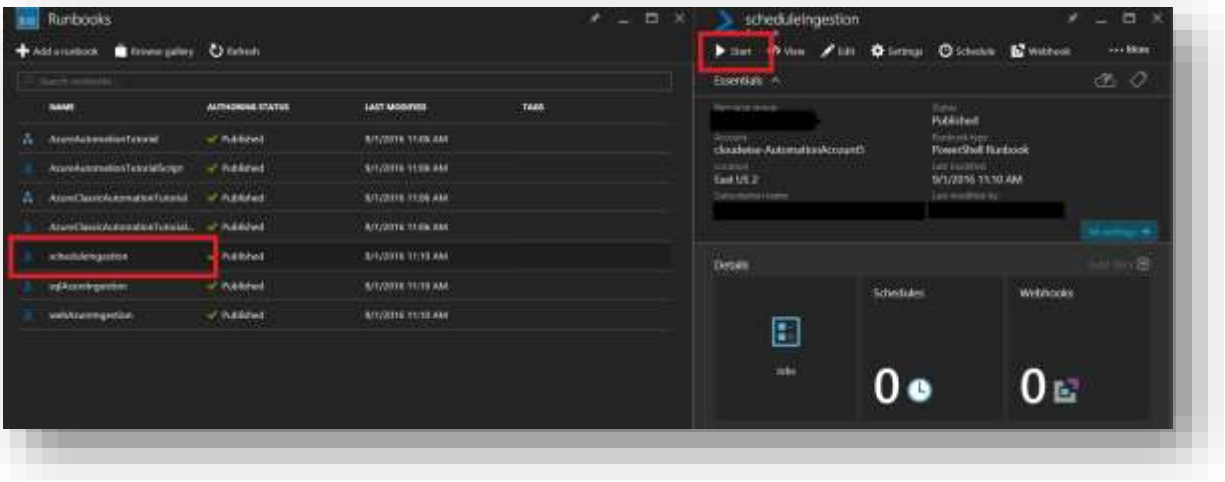
    https://github.com/AvyanConsultingCorp/azure-quickstart-templates/tree/master/azure-governance-cloudwise
4. Note the URL of the Cloudwise App Service

1.2 POST DEPLOYMENT STEPS

Congratulations !
You have now successfully deployed the application. You will have to do a few additional steps to have the application configured

(by a Service Admin only)

- Click open the scheduleIngestion runbook and click start to run the runbook. This step will kickstart the data ingestion to the OMS workspace specified.



- Create the AD application by running the ServicePrincipal.ps1.
  - Edit the serviceprincipal.ps1 (in Powershell_ise)
  - You will need to supply subscriptionName and the deployed URL of the CloudWise App Service. **PLEASE REFER TO PARAMETER DESCRIPTIONS IF YOU NEED MORE INFORMATION ON WHAT NEEDS TO BE PROVIDED AS AN INPUT.**

```
##### Why do you need this script?#######
## Refer article - https://azure.microsoft.com/en-us/documentation/articles/resource-group-authenticate-service-principal/

# STEPS TO MAKE THIS SCRIPT WORK FOR YOU
# 1) Ensure you pass the right subscription name. Parameter $subscriptionName
# 2) Run the ARM deployment and capture the Cloudwise App Service URL.
# 3) When prompted, signin with a Service Admin user for the subscription
# 4) usually that's all you have to do
#********************************************************************


# --MANDATORY PARAMETERS. WILL BE VERIFIED LATER IN THE SCRIPT AND WILL FAIL GRACIOUSLY IF NOT SUPPLIED
$subscriptionname = ""          # name of the Azure subscription
$cloudwiseAppServiceURL=""      # this is the Unique URL of the Cloudwise App Service deployed by the ARM script
# --END MANDATORY PARAMETERS
```

- Currently, one has to manually start the scheduleIngestion Runbook. This is a dependency on ARM template as one cannot currently schedule a run of the runbook
  Please navigate to your automation account. Click on Runbooks
- Configure AD App:

  a. In Azure Portal search for Azure Active directory. Open the “App Registrations” tab
  b. Open the AD Application that you just created. It should start with the name “CloudWise - Governance Advisory Portal”
  c. Configure the following permissions in the “Required Permissions” tab
  d. List of Permissions

Category	Permission

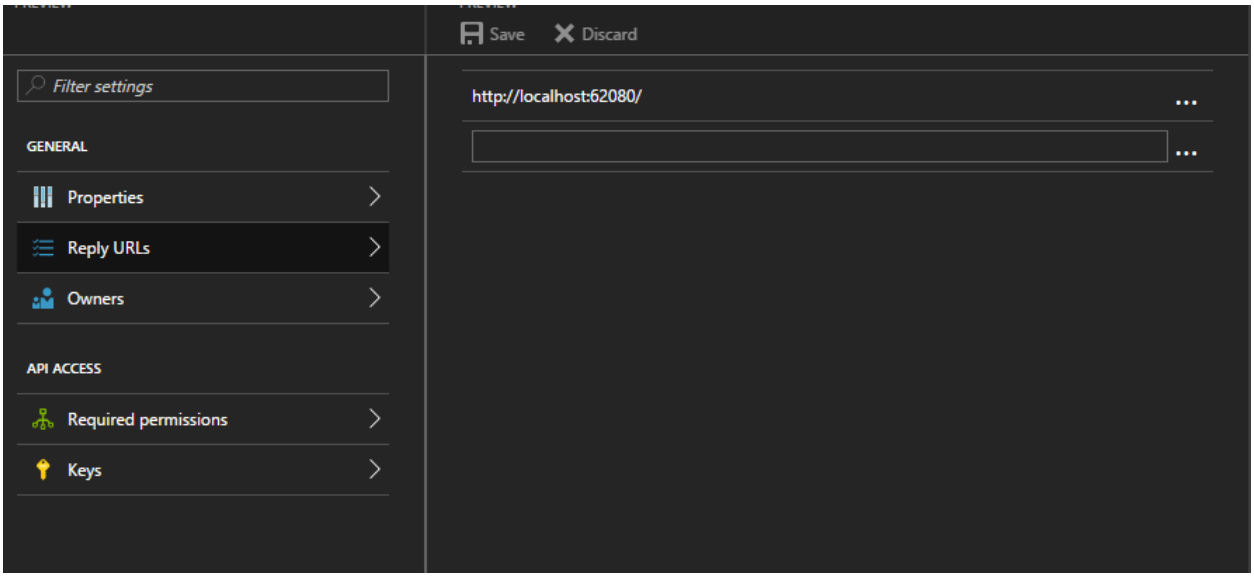
Windows Service Management API	
Microsoft.Azure. ActiveDirectory	
Microsoft Graph API	**Application Permissions**

Delegated Permissions

DELEGATED PERMISSIONS	REQUIRES ADMIN
Edit or delete items in all site collections	No
Read and write user and shared tasks	No
Read user and shared tasks	No
Read and write user and shared contacts	No
Read user and shared contacts	No
Read and write user and shared calendars	No
Read user and shared calendars	No
Send mail on behalf of others	No
Read and write user and shared mail	No
Read user and shared mail	No
Sign in and read user profile	No
Read and write access to user profile	No
Read all users' basic profiles	No
Read all users' full profiles	Yes
Read and write all users' full profiles	Yes
Read all groups	Yes
Read and write all groups	Yes
Read directory data	Yes
Read and write directory data	Yes
Access directory as the signed in user	Yes

1.3 SETTING UP THE WEB APPLICATION (BY A SERVICE ADMIN)

5. **Ensure**: Reply url of the application is configured in the AD application. If you have done the above steps, you don't have to do this. This is just a precautionary step for operations team who deploy multiple web applpications to the same AD Application.



6. Open Portal and then you get an initial screen where you need to put subscription id,Client APplicaion ID and Client secret and then press submit.
7. After submit you will be redirect to AD login page where you need to input your active directory url and then press GO.
8. After this you need to input your LiveID credentials and after successfully login you will be redirect to Rule page where you can see all rules and submit rules.

1.4 VERIFICATION OF DEPLOYMENT

1. Application Verification
    a. Login to the Azure portal
    b. Navigate to the App Service URL
    c. It should show the Settings screen
2. SQLIngestion jobs are running
3. Clicking on the OMS workspace opens the portal. The dashboards may not be configured as they are currently being worked between the OMS and the Avyan CloudWise team. We created a manual deployment if you know how to drag and drop the dashboards to the views. Location of the dashboards here
   https://github.com/AvyanConsultingCorp/azure-quickstart-templates/tree/master/azure-governance-cloudwise/OMSAzureDashboards

   Configure am OMS view. Refer link here
   https://blogs.technet.microsoft.com/msoms/2016/06/30/oms-view-designer-visualize-your-data-your-way/

2 DEPLOYING TO DEVELOPMENT ENVIRONMENT