# **Dynatrace Azure Monitor Integration Guide**

### Prerequisites:

1. An environment ActiveGate with the Azure module enabled and connectivity to reach below Azure APIs:

https://management.azure.com/

https://login.microsoftonline.com/

https://management.core.windows.net/

1. The Azure Setup requires Azure Administrator permissions. The Dynatrace Setup portion requires that you are using an account that has change monitoring settings ability.
2. If not using the reader role in Azure, create and upload a custom role in the Access Control (IAM) section of the given subscription/management group.

### Azure Setup – 2 Options:

1. Azure CLI
   1. Login to Azure Portal (need to be an Azure Admin).
   2. Open an Azure Cloud Shell to access the Azure CLI.
   3. Run the following after editing the placeholders for the service principal, custom role, and subscription id / management group:

az ad sp create-for-rbac --name <YourServicePrincipalName> --role <YourCustomRole> --scopes /providers/Microsoft.Management/managementGroups/<ManagementGroupDetails> --query "{ClientID:appId,TenantID:tenant,SecretKey:password}"

* 1. Copy the output containing the client id, secretkey, and tenant id information to a safe location. These details will be used to configure Dynatrace to connect to your Azure account.

1. Azure Portal
   1. Login to Azure Portal (need to be an Azure Admin).
   2. Navigate to “Microsoft Entra ID” (formerly Azure Active Directory).
   3. Copy the value of Tenant ID and save it as Tenant ID for future retrieval. This is required to configure Dynatrace to connect to your Azure account.
   4. Select “Add” followed by “App Registration”.
   5. Supply a descriptive name for the App Registration then register.
   6. Copy the value of Application (client) ID and save it as App ID for future retrieval. This is required to configure Dynatrace to connect to your Azure account.
   7. Select “Add a certificate or secret”.
   8. Select “New client secret”.
   9. Give the secret a descriptive name and expiry details followed by selecting “Add”.
   10. Copy the value of the secret returned and save it as the secret key for future retrieval. This value can only be seen once and is required to configure Dynatrace to connect to your Azure account.
   11. Navigate to the management group or subscription followed by accessing the “Access Control (IAM)” blade on the lefthand side.
   12. Select “Add” followed by “Role Assignment” (need to have the pre-req for uploading the custom role done for this step).
   13. On the role tab, search and select the custom role.
   14. On the members tab, click “Select members” and search/pick the name of the App Registration created in step e.
   15. Select and then proceed to “Review + Assign” the custom role assignment.

### Dynatrace Setup:

1. Login to Dynatrace (ensure you are using elevated account that has the change monitoring settings permission).
2. Navigate to Settings -> Cloud and Virtualization -> Azure.
3. Select “Connect new instance".
4. Give the integration a descriptive connection name and fill out the tenant id, secret, and app id with the details collected from the Azure Setup portion of the document.
5. Select “Connect”. An initial connection validation will be done following, ensuring the ActiveGate can connect to Azure with the provided details.
6. After a successful connection, you can edit the connection configuration adding additional Azure supporting services to collect metrics for on-top of the base infra metrics. If using a custom role in Azure, the role needs to allow the specific permissions associated with the supporting service.

### Validation:

1. Login to Dynatrace.
2. After the Azure integration connection details have been setup in Dynatrace, wait roughly 5-10 minutes.
3. Navigate to the “Azure” section from the Dynatrace lefthand side global navigation, under Infrastructure Observability.
4. Validate the subscriptions populating and underlying entities and metrics being reported.
5. Another easy way to see all the metrics coming back from the integration is navigating to the “Metrics” page via the Dynatrace lefthand side global navigation and search “azure“. Ensure the toggle is enabled for only showing metrics reporting in the timeframe specified. Can then validate the metrics and chart further using the data explorer.

### Troubleshooting:

1. Check the following documentation for troubleshooting FAQ - <https://docs.dynatrace.com/docs/shortlink/troubleshoot-azure-platform>
2. Collect an ActiveGate archive and review the logging, particularly the dynatracegateway\* log files.

Example archive/logfile path:

\SupportArchive86A53356\COLLECTOR\0x00000000620294a6\log\dynatracegateway\_Debug.0.0

<https://docs.dynatrace.com/docs/shortlink/activegate-diagnostics>