
Micro Focus Security ArcSight SmartConnectors

SmartConnector for Microsoft Azure Monitor Event Hub Configuration Guide

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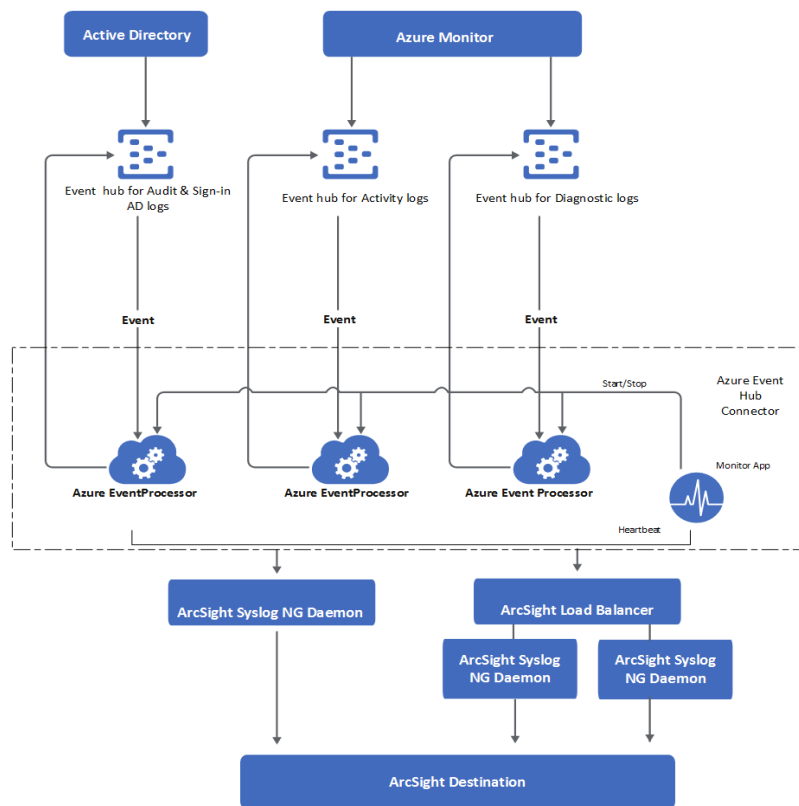
Introduction

The Azure Monitor Event Hub connector helps you monitor the activities on Microsoft Azure Cloud services.

This connector collects events and logs from Azure Active Directory and Azure Monitor, normalizes the events to Common Event Format (CEF), and then sends them to either ArcSight Syslog NG Daemon SmartConnector (SmartConnector) or to ArcSight Load Balancer. If the events are sent to ArcSight Load Balancer, these are consequently sent to Syslog NG Daemon SmartConnector.

Understanding Data Collection

The following diagram provides a high-level overview of how the Azure Monitor Event Hub connector collects and sends data to ArcSight's destination.



The Azure Monitor Event Hub connector collects the following event logs from Active Directory and Azure Monitor in Azure:

- **Active Directory Logs**
 - **Audit logs:** Provides records of system activities for compliance.
 - **Sign-in logs:** Provides information related to user logins.

Note: To export Active Directory sign-in logs, you must have one of P1 or P2 premium editions of Azure Active Directory.

- **Azure Monitor Logs**

- **Activity logs:** Provides data related to write operations that were performed on resources in your subscription.
- **Diagnostic logs:** Provides data related to operations performed by your resource.

On installation, the connector first creates event hubs for both Active Directory and Azure Monitor. The connector then automatically configures the above mentioned log types to be forwarded to the following event hubs: Active Directory, Activity, and Diagnostics. For detailed information about event hubs, see the Azure documentation.

The Azure Event Processor collects logs in JSON format and then converts these to CEF format.

The Azure Event Processor then forwards these CEF events to an ArcSight Syslog NG Daemon SmartConnector or Load Balancer through a secured communication channel using TLS 1.2.

The connector establishes a TLS 1.2 connection by accepting a server certificate from ArcSight Syslog NG Daemon SmartConnector or ArcSight Load Balancer.

The Monitor App continuously monitors the heartbeat of the Syslog NG Daemon SmartConnector or Load Balancer to ensure that it is up and running to receive events. If the Syslog NG Daemon SmartConnector or Load Balancer is down due to an unexpected shutdown of the machine or network issues, this connector stops further processing of events from the event hub. The unprocessed events are sent back to the event hub to avoid data loss. Once the Syslog NG Daemon SmartConnector or Load Balancer is up and running, the connector continues to send the events to the Syslog NG Daemon SmartConnector. However, the Monitor App will not monitor Syslog NG Daemon SmartConnectors connected to the Load Balancer.

The Syslog NG Daemon SmartConnector then sends the events to the ArcSight destination.

Deploying the Connector

This section provides information about deploying the connector to collect and forward events from Azure Cloud Services to a Syslog NG Daemon SmartConnector or to a Load Balancer, then the events can be sent to an ArcSight destination.

["Prerequisites" below](#)

["Deploying the Connector" on page 9](#)

["Post-Deployment Configurations" on page 11](#)

Prerequisites

["Certified Platforms for Azure Event Hubs Deployment " below](#)

["Setting User Permissions in Azure " below](#)

["Opening Ports " on the next page](#)

["Enabling Windows PowerShell to Run Scripts" on page 8](#)

Certified Platforms for Azure Event Hubs Deployment

- **Operating System:** Microsoft Windows Server 2012 (in the cloud with Azure).

Setting User Permissions in Azure

In Azure, users must be associated with a subscription to provide them with access to resources such as virtual machine, storage account, virtual network, and so on. Therefore, you must determine the subscription you want to use for the connector and add users to the required subscription. You must also assign users to a role, to define their permission to perform tasks. Only a user with the **"Owner"** role, can deploy and configure the connector.

To set user permissions:

1. Log in to Microsoft Azure as a user with administrator privileges.
2. To add users for this connector:
 - a. Click Azure Active Directory Users > All Users > New User.
 - b. Update user details.
 - c. Select Directory Role
 - d. Assign one of the following roles: Global administrator, Security administrator, Security reader, Reports reader.

3. Click All services > Subscriptions and select the subscription you want for this connector.
4. Set the user you created in Step 2 as the **Owner** of the selected subscription:
 - a. Click Access Control (IAM) > Add.
 - b. Add the user who will deploy the connector and assign the Role as Owner.
 - c. (Conditional) If you have multiple subscriptions and want to monitor the services under all your subscriptions, repeat this procedure for all the subscriptions.

Opening Ports

You must ensure that the ports on the server on which you installed the Syslog NG Daemon SmartConnector is accessible from Azure. The procedure to open ports varies based on whether you have installed Syslog NG Daemon SmartConnector on a virtual or non-virtual machine.

Opening Ports on a Non-Virtual Machine

If you installed Syslog NG Daemon SmartConnector on a physical, non-virtual machine, ensure that the ports on which you installed it are accessible to Azure.

Opening Ports on a Virtual Machine

If you have installed the Syslog NG Daemon SmartConnector on a virtual machine in Azure cloud, ensure that the ports on which you installed Syslog NG Daemon SmartConnector are open in both Azure and the virtual machine.

To open inbound ports on Azure:

1. Log in to Microsoft Azure as a user with administrator privileges.
2. Click Virtual Machines > Virtual machine name > Networking > Add inbound port.
3. Enter the same port or port range on which you installed the Syslog NG Daemon SmartConnector.
4. Update other fields and click Add.

To open ports in the virtual server:

1. Log in to the virtual Microsoft Windows Server 2012 machine.
2. Open Microsoft Windows Server 2012 Firewall.
3. Click Inbound Rules > New Rule > Port > Next > TCP > Specific local ports
4. Enter the same port or port range on which you installed the Syslog NG Daemon SmartConnector.
5. Click Next > Allow the connection > Next > Profile > Next.
6. Name the rule,
7. Click Finish.

Enabling Windows PowerShell to Run Scripts

To deploy the connector, you must run a script in Windows PowerShell. Ensure that Windows Powershell is enabled to run scripts on the machine where you want to deploy the connector. This procedure needs to be done only once on the machine.

To enable Windows PowerShell to run scripts:

1. Upgrade the Windows PowerShell version to 5.0 or later.
2. Click Start and search for Windows PowerShell. Right-click Windows PowerShell and click Run as administrator.
3. Check the current script execution policy:
`Get-ExecutionPolicy`
4. If the current script execution policy is Restricted, change the script execution policy to Unrestricted
`Set-ExecutionPolicy unrestricted`
Enter `Yes to All` when prompted.
5. Run the `Get-ExecutionPolicy` command to ensure that PowerShell is now Unrestricted.
6. Install the Azure Resource Manager modules from the PowerShell Gallery:
`Install-Module -Name AzureRM -AllowClobber`
For more information about installing, see the Azure documentation.
7. When prompted to install NuGet, enter Yes.
8. When prompted to install modules from the untrusted sites (PowerShell gallery), enter `Yes to All`.

You should now be able to run scripts in PowerShell.

Deploying the Connector

Deploying the connector will automatically deploy and configure the required components in your Azure Cloud.

When you deploy the connector against a subscription, you can monitor the events emitted from the services registered to the subscription. If you have multiple subscriptions and you want to monitor the services under all your subscriptions, you must deploy this connector against each of the subscriptions separately. The connector gets deployed directly into the Azure cloud and you do not need to set up a virtual machine in the cloud to deploy the connector.

To deploy the connector:

1. On the machine from where you want to deploy the connector, download `arcsight-azurecloud-emitter.zip`.
2. Extract the `arcsight-azure-cloud-emitter.zip` files to the desired location.
3. Configure the application properties of this connector:
 - a. Edit the `app.properties` file.
 - b. (Conditional) Modify the value of `FunctionAppName1` and `FunctionAppName2` to change the name of the Function Apps. The default names of the Function Apps are `arcsight-cloudfunctions` and `arcsight-monitor-functions`.
 - c. Specify the `connectorhostname` by entering the IP address or hostname of the Syslog NG Daemon SmartConnector or the Load Balancer.
 - d. Specify the `connectorport` of the Syslog NG Daemon SmartConnector or the Load Balancer.
 - e. Update the `keyStoreFileName` and `keyStorePassword` parameters with the keystore file name and password in the Syslog NG Daemon SmartConnector or Load Balancer. The `keyStoreFileName` and `keyStorePassword` are used by the event hub connector application running on Azure to establish a TLS connection over SSL with the client Syslog NG Daemon SmartConnector.

Note: Copy the keystore file from Syslog NG Daemon SmartConnector or the Load Balancer to the cloud. To access the keystore file, log in to Azure and click Storage Accounts > <storage account name> > Files > Storage container > <function app name> > `certs` folder.

After you deploy the connector, upload your keystore certificate. For more information about uploading your certificate, see “Customizing the Connector”.

Caution: Do not use the existing resource groups in your Azure environment because this resource group will be deleted when you uninstall this connector.

- f. Specify a unique `storageaccountname`.

- g. Specify a unique Eventhubnamespace.
- h. Specify the Service Plan. You can specify either Consumptionplan or Appserviceplan.
 - A Consumption plan is a serverless plan and allows you to scale automatically.
 - An App Service plan handles a fixed event load.

Specify the following only if you are entering Appserviceplan:

servicePlanName as ArcSightPlan

servicePlanTier

servicePlanNumberofWorkers

servicePlanWorkerSize

For more information about specifying the Service Plan, see Azure documentation.

- i. Specify the location based on the locale of the resources you want to monitor.
- j. Save the file.

Note: Back up the app.properties file because you would need to refer to these configurations during uninstallation.

4. Open Windows PowerShell as Administrator and run the following command:


```
<extracted path>\DeployFunction.ps1
```
5. When prompted, log in to Microsoft Azure as a user with Owner privileges for the subscription you want to use with Azure
6. When prompted, select the required subscription.
7. Verify the deployment as described in “Verifying the Deployment in Azure”.
8. Configure the Syslog NG Daemon SmartConnector or Load Balancer with an ArcSight destination to view and monitor events coming from Azure Cloud Services. For more information, see the ArcSight Syslog NG Daemon SmartConnector Load Balancer documentation.
9. Complete the procedures listed in “Post-Deployment Configurations”. For more information, see the ArcSight Syslog NG Daemon SmartConnector or Load Balancer documentation.
10. (Conditional) Configure the Load Balancer.

Verifying the Deployment in Azure

Successful deployment of this connector does the following:

1. Installs two Azure functions in your Azure suscription: <arcsight cloud function app name> and <arcsight monitor app name>. These functions are used to collect events from Azure event hubs and monitor the health of the connection downstream. To view the functions in Azure, click Function Apps.
2. The install script automatically streams events from the audit logs, sign-in logs, and activity logs. For diagnostic logs, you must manually add diagnostic settings to configure streaming of these logs. For more information, see Step 7 in “Streaming Diagnostic Logs”.

3. Uploads the application settings listed in the app.properties file to Azure. This enables you to add or modify properties from Azure instead of modifying the app.properties file and redeploying the Connector. To view the properties in Azure, click Function Apps > <function app name> > Application Settings. For more information about modifying these properties, see “Customizing the Connector”.
4. Uploads the map files to Azure and the Azure Monitor Event Hub Connector can convert JSON events to a CEF format. To view the certificates in Azure, click Storage Accounts > <Storage account name> > Files > Storage container > <function app name> > certs folder. The default name of the storage account is emitterarcsightstorage.
5. Uploads the map files to Azure convert JSON events to CEF. To view these map files, click Storage Accounts > Storage account name> > Files > Storage container > function app name> maps folder.
6. Creates an Active Directory application called <arcsight monitor app name> and assigns the Azure Website Contributor role to this application
7. Creates a resource group called <arcsight functions group name>. This resource group manages the resources of this connector. The default name of the resource group is "arcsightfunctions-group".
8. Creates an Azure storage account called <storage account name>. This storage account stores the connector certificate, function logs, and the parser files.

Post-Deployment Configurations

You must configure the connector after deployment. To configure, you must log in to Azure as a user with Owner privileges for the subscription you want to use with Azure and perform the following:

["Additional Configurations for App Service Plan" below](#)

["Streaming Diagnostic Logs" on the next page](#)

["Updating Keystore Certificate" on the next page](#)

Additional Configurations for App Service Plan

On the App Service Plan, function apps are designed to go to an idle state after a default timeout period. Therefore, you must manually configure the function apps to stay connected even if events are not streamed during the timeout period. To configure, click Function Apps > <function name> Application Settings > General Settings > Update to: "On". Ensure that you do this for both <arcsight cloud function app name> and <arcsight monitor function app name>.

Streaming Diagnostic Logs

The install script automatically streams events from the audit logs, sign-in logs, and activity logs. For diagnostic logs, you must manually add diagnostic settings to configure streaming of these logs. For information about adding diagnostic settings, see Azure documentation. While you are adding diagnostic settings, perform the following:

To stream diagnostic logs:

1. Select Azure Home > Monitor > Diagnostic Settings.
2. Select the event hub (the default event hub name is: eh-emitter-arcsight).
3. When the list of configured diagnostics is displayed, click Edit on the desired diagnostic to be updated.
 - a. Click Add, to monitor a new resource.
4. From the Diagnostic settings window, mark the Stream to an event hub check box (if not marked) or select the event hub.
5. On the Select event hub window:
 - a. From the the Select event hub namespace drop-down list, specify <name of event hub namespace>.
 - b. From the Select event hub name drop-down list, select insights-diagnostics-logs.
 - c. From the Select event hub policy name drop-down list, select ArcSightAccessKey.
6. Click OK.
7. On the Diagnostic settings window, select the logs you want to stream.

Updating Keystore Certificate

The Syslog NG Daemon SmartConnector includes a default keystore. During deployment, this default keystore is associated with a newly created storage account. You must associate your keystore with the new storage account to prevent errors.

To update keystore certificate:

1. Rename the desired keystore certificate as remote_management.p12, which is the file name of the default keystore certificate so that the Azure connector identifies the custom keystore.
2. Log in to Microsoft Azure as a user with Owner privileges for the subscription you want to use with Azure.
3. Select All Services > Storage Accounts.
4. In the Storage Accounts window, select <storage account name>.
5. In the Services tab, select Files.
6. Select the <storage container name> function.

7. Select the displayed folder.
8. In the fileshare of the storage account, select the certs folder. The default certificate, remote_management.p12, is displayed.
9. Delete this default certificate or overwrite the existing file.
10. Upload the certificate, remote_management . 12.
 - a. Click Upload.
 - b. In the URL field, browse to the desired location and select remote_management . p12 .
 - c. Click Upload.
11. Restart both the function apps:
 - a. Click Function Apps > <arcsight cloud function app name> > Restart.
 - b. Click Function Apps > <arcsight monitor app name> > Restart.

Note: After restarting the function apps, the Azure Connector is restarted along with the certificate uploaded.

Customizing the Connector

You can customize the connector properties as required.

To customize the connector:

1. Log in to Microsoft Azure as a user with Owner privileges for the subscription you want to use with Azure.
2. Click Function Apps > <arcsight cloud function app name> or <arcsight monitor function app name> > Platform Features > Application Settings.

Important: Do not modify any of the settings other than those listed in this procedure as this may cause unpredictable performance or even outages.

3. (Conditional) To modify the connector port and connector name of the Syslog NG Daemon SmartConnector or Load Balancer:
 - a. Update the Connector Port field.
 - b. Update the Connector Hostname field with the IP address or hostname.

Note: Ensure that you do this for both <arcsight cloud function app name> and <arcsight monitor function app name>.

4. (Conditional) Set the logging level.

Select <arcsight cloud function app name> or <arcsight monitor function app name> as mentioned in Step 2. By default, the logging level is INFO. To increase the logging level, enter DEBUG or TRACE in the Logging level field.

5. (Conditional) You can send the connector logs to a storage account. However, this consumes cloud storage

In the logging.storage.enabled field, enter true. The connector now sends logs from the function app to the storage account every 15 minutes.

To stop sending logs to the storage account, enter false in the logging.storage.enabled field.

6. Click Save.

Performance Scaling

You might need to modify your deployment or change certain configuration to improve the performance.

Your Azure pricing plan also affects performance scaling. A Consumption plan scales automatically and an App Service plan handles a fixed event load. A Consumption plan automatically creates Function App instances to scale up the load. For more information about the event load handled in a App Service plan, see the [Azure Documentation](#).

Configuring Load Balancer

In environments where the event load is more than what can be handled by a single Syslog NG Daemon SmartConnector, you can configure Load Balancer to handle large event loads. For more information about configuring Load Balancer, see [ArcSight Load Balancer documentation](#).

Upgrading the Connector

You can only do a binary upgrade of the connector. A binary upgrade of the connector upgrades the connector and also enables you to continue using the components created during deployment. You will not lose any custom settings.

To upgrade the connector:

1. On the machine from where you want to upgrade the connector, download arcsight-azurecloud-emitter.zip.
2. Extract the arcsight-azure-cloud-emitter.zip files to the desired location.
3. Configure the app.properties file. For more information, see Step 3 in “Deploying the Connector”. Ensure that you specify the same Function App names that you specified during deployment.
4. Open Windows PowerShell as Administrator and run the following command:
`<extracted path>\DeployFunction.ps1`
5. When the script prompts you, select one of the following:
 - Y to do a binary upgrade. The script first checks whether there is an existing installation of the connector in the cloud and then upgrades only the binary files without affecting the configuration settings.
 - N to do a fresh deployment of the connector.
The script deploys the connector and overrides all custom settings with default settings.
6. When prompted, log in to Microsoft Azure as a user with Owner privileges for the subscription you want to use with Azure.
7. When prompted, select the required subscription.

Undeploying the Connector

Undeploying the connector deletes the Active Directory application created during deployment, deletes the resource group, and all the associated components such as storage account and event hubs created during deployment.

To undeploy the connector:

1. Open Windows PowerShell as Administrator and run the following command:
`<deployed path>\UndeployFunction.ps1`
2. When prompted, log in to Microsoft Azure as a user with Owner privileges for the subscription you want to use with Azure.
3. When prompted, select the required subscription.

The script displays the components that will be removed and prompts you for permission to undeploy the Azure connector.

4. Enter Yes when prompted.

The script undeploys the Azure connector.

Appendix A: Azure Event Log Categories

Azure event logs such as activity logs and diagnostic logs are emitted in JSON format. The connector collects these event logs, converts these to CEF using mapping files, and sends these to Syslog NG Daemon SmartConnector or Load Balancer. Every JSON field is mapped to the appropriate CEF key. Each event log type has various categories and each log category has its own schema. Azure logs have schema for various log categories. With the help of these logs schema, the source fields (in JSON) are mapped to appropriate CEF keys.

The connector currently includes mapping files for several log categories of activity, audit, sign-in, and diagnostic logs. The Azure documents do not have the schemas for a few categories. Therefore, the mappings for these categories are not available in the connector. Such events are sent unparsed to the Syslog NG Daemon SmartConnector or to the Load Balancer, and then forwarded to the ArcSight destination.

Following tables list the categories for mappings supported by the Azure connector. The mappings are done using the schemas provided in the Azure documents.

Diagnostic, Audit, and Sign-In Log Categories

Table A-1 Diagnostic Log Categories

| Categories | Resource Type | Certified |
|-----------------|---|-----------|
| GatewayLogs | Microsoft.ApiManagement/service | Yes |
| JobLogs | Microsoft.Automation/automationAccounts JobStreams | No |
| JobStreams | Microsoft.Automation/automationAccount | No |
| CoreAnalytics | Microsoft.Cdn/profiles/endpoints | No |
| PipelineRuns | Microsoft.DataFactory/factories | No |
| TriggerRuns | Microsoft.DataFactory/factories | No |
| Audit | Microsoft.DataLakeAnalytics/accounts | No |
| Requests | Microsoft.DataLakeAnalytics/accounts | No |
| Audit | Microsoft.DataLakeStore/accounts | No |
| Requests | Microsoft.DataLakeStore/accounts | No |
| Connections | Microsoft.Devices/lotHubs | No |
| DeviceTelemetry | Microsoft.Devices/lotHubs | No |
| C2DCommands | Microsoft.Devices/lotHubs | No |

| Categories | Resource Type | Certified |
|----------------------------------|---|-----------|
| DeviceIdentityOperations | Microsoft.Devices/IotHubs | No |
| FileUploadOperations | Microsoft.Devices/IotHubs | No |
| Routes | Microsoft.Devices/IotHubs | No |
| D2CTwinOperations | Microsoft.Devices/IotHubs | No |
| C2DTwinOperations | Microsoft.Devices/IotHubs | No |
| TwinQueries | Microsoft.Devices/IotHubs | No |
| JobsOperations | Microsoft.Devices/IotHubs | No |
| DirectMethods | Microsoft.Devices/IotHubs | No |
| DataPlaneRequests | Microsoft.DocumentDB/databaseAccounts | No |
| ArchiveLogs | Microsoft.EventHub/namespaces | No |
| OperationalLogs | Microsoft.EventHub/namespaces | No |
| AuditEvent | Microsoft.KeyVault/vaults | No |
| WorkflowRuntime | Microsoft.Logic/workflows | No |
| NetworkSecurityGroupEvent | Microsoft.Network/networksecuritygroups | Yes |
| NetworkSecurityGroupRuleCounter | Microsoft.Network/networksecuritygroups | Yes |
| LoadBalancerAlertEvent | Microsoft.Network/loadBalancers | No |
| LoadBalancerProbeHealthStatus | Microsoft.Network/loadBalancers | No |
| ApplicationGatewayAccessLog | Microsoft.Network/applicationGateways | No |
| ApplicationGatewayPerformanceLog | Microsoft.Network/applicationGateways | No |
| ApplicationGatewayFirewallLog | Microsoft.Network/applicationGateways | No |
| OperationalLogs | Microsoft.ServiceBus/namespaces | No |
| QueryStoreRuntimeStatistics | Microsoft.Sql/servers/databases | No |
| QueryStoreWaitStatistics | Microsoft.Sql/servers/databases | No |
| Errors | Microsoft.Sql/servers/databases | No |
| DatabaseWaitStatistics | Microsoft.Sql/servers/databases | No |
| Timeouts | Microsoft.Sql/servers/databases | No |
| Blocks | Microsoft.Sql/servers/databases | No |
| Audit | Microsoft.Sql/servers/databases | No |
| Execution | Microsoft.StreamAnalytics/streamingjobs | No |
| Authoring | Microsoft.StreamAnalytics/streamingjobs | No |

Activity Log Categories

Table A-2 Activity Log Categories

| Categories | Resource Type | Certified |
|----------------|---------------|-----------|
| Action | | Yes |
| Administrative | | Yes |
| Alert | | Yes |
| Delete | | Yes |
| Recommendation | | Yes |
| Security | | No |
| ServiceHealth | | Yes |
| Write | | Yes |

Active Directory Log Categories

Table A-3 Active Directory Log Categories

| Categories | Resource Type | Certified |
|------------|---------------|-----------|
| Signin | | Yes |
| Audit | | Yes |

Appendix B: Troubleshooting

Errors during Deployment

If you receive an error message prompting you to register the subscription <subscription id> with Microsoft.Insights, register the microsoft.insights provider.

To register the resource provider:

1. Log in to Microsoft Azure as a user with administrator privileges.
2. Click All Services > Subscriptions
3. Select the subscription you want for this connector.
4. Select Resource Providers.
5. Click Register.

Connecting Errors

Connection errors are displayed when:

The Syslog NG Daemon SmartConnector hostname and port are not reachable from Azure cloud. Ensure that the Syslog NG Daemon SmartConnector host and port are reachable from Azure cloud. Open the relevant ports. The certificate file is overridden during the deployment of the connector. Replace the remote connection management file in Azure with your remote connection management file. Click Storage Accounts > <Storage account name> > Files > Storage container > <function app name> > certs folder. Replace the remote_management.p12 file with your <customname>.p12 file.

Parsing Errors

Parsing errors are displayed if the event log categories are not supported by the connector. For a list of the supported categories, see Appendix A, "Azure Event Log Categories".

You can contact technical support in the following scenarios:

- If you want to change the default mappings.
- If you want to add a new log type.
- See parsing errors.

Sharing Logs for Troubleshooting

You may want to share logs with technical support for troubleshooting.

To share logs:

1. Log in to Microsoft Azure as a user with administrator privileges.
2. Set the logging level to TRACE or DEBUG. For more information, see Step 4 in “Customizing the Connector”.
3. Click Function Apps > <arcsight cloud function app name> or <arcsight monitor function app name> > Platform Features.
4. Click App Service Editor.
5. On the new App Service Editor tab, select Open Kudo Console from the top drop down menu.
6. On the new tab, go to : site > wwwroot > logs.
7. Click download and send the logs to technical support.

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Feedback on Configuration Guide (SmartConnectors 7.10.0)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to arcsight_doc@microfocus.com.

We appreciate your feedback!