# Integrating Azure resource Logs with Splunk

The document provides details on how to integrate Azure Resource logs with Splunk. This integration requires multiple steps such as follows:

* Create a Service principle for the WUIT.
* Create Event hub namespace & Event hub.
* Grant the necessary Event Hub permissions on the Service principle.
* Enable logging on each of the resources that you want to collect logs on.
* Ship the resource logs Event hub.
* Provide the necessary Event hub credentials to WUIT for Splunk integration.

## Step 1: Create a Service Principle

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| * Open a ServiceNow request with WUIT to create a Service principal.
* Follow the link: [WUSTL CSP Portal - WUSTL Portal (service-now.com)](https://wustl.service-now.com/sp?id=wu_csp_index)
* Once in ServiceNow, search for **Service account, select** **“New Service Account”**
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| * After selecting the **“New Service Account”** option
* For “**Request Account Type**” select “**Service Account**” and fill out the form as needed.
* After filling out the form, before you checkout, ensure to enter “**CC0002751”** as your cost center number.
* **P.S!** In the ticket, please request that they email you the **SecretID, TennantID** & **ClientID** of the Service Principle.
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## Step 2: Create Event Hub Namespace n azure

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| * Log into azure and go to the Event hub Service and create an **Event Hub Namespace**.
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| * In the namespace creation window, ensure you select the **subscription** in which your resources are hosted in.
* As namespaces are restricted to resources within the same subscription.
* After selecting the subscription, fill in the other options as needed.
* In the **advanced** window, always select the latest version i.e., **Version 1.2**.
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| * In the **networking window**, you can make it publicly or privately accessible. If you select private access, you will have to **create a private endpoint**.
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| * After the namespace is created, go to **Entities** -> **Event Hubs**.
* Select the **+Event Hub** to create an Event hub.
* The log will be shipped to the created event hub.
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## Step 3: Grant Service Principal Permissions.

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| * Go to the created Event hub Namespace, then go to **Access Control (IAM)**
* In the add **Role Assignment Window,** select the **“Azure Event Hubs Data Receiver” role and** select the appropriate service principle**.**
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## Step 4: Enable logging of Resources & ship logs to Event hub:

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| * In azure, go to the resource, open the Monitoring **Window, select** **Diagnostic Settings** and select **add** **Diagnostic Settings**
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| * In the Diagnostic Setting window, select **Stream to an event hub.**
* Next**,** enter the needed values for the **subscription, Event hub namespace, event hub.**
* Next select the appropriate logs you would like to send.
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## Step 5: Ship logs to Splunk

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| * Once you successfully ship logs to the appropriate Event hub, you will need to open a ServiceNow Data Onboarding request with WUIT.
* Click on the following link to create a request: [Splunk Data Onboarding Request - WUSTL Portal (service-now.com)](https://wustl.service-now.com/sp?id=sc_cat_item&sys_id=2159b76e1b160250e32e11f72a4bcbe4)
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| * Once the request has been created you will need to provide the following details to the WUIT Splunk team
 | The provided info would look like this:**Event Hub Namespace:** i2db-test000.servicebus.windows.net**Client ID:** 50test00-test6-4188-944c-**SecretID:**8GFRST~b9Rftx2CPlt5qu1L1DCFDqZz4J**TenantID:** 4ccca3b5-71cd-4e6d-974b-4875581967 |