# Guide for creating Al Lead Qualification Agent in Azure Al Studio

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### **Introduction**

In today's competitive landscape, speed and accuracy in lead qualification are critical. Manually sifting through inbound leads is time-consuming and prone to inconsistency. This guide provides a comprehensive, step-by-step walkthrough for building an intelligent AI agent that automates this process, ensuring high-quality leads are identified and routed to sales faster than ever.

By leveraging the power of Microsoft Azure AI Studio and integrating it with Marketo Engage, you will create a sophisticated agent capable of analyzing lead data, enriching it with external information, evaluating it against your Ideal Customer Profile (ICP), and taking direct action within your marketing automation platform. This powerful combination allows you to build a scalable, consistent, and highly efficient lead qualification engine tailored to your business needs.

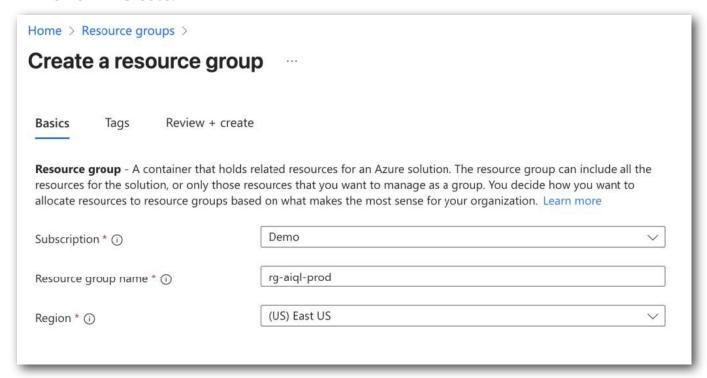
# **Prerequisites and Create a Resource Group**

### **Prerequisites:**

- Azure Account If you don't have an Azure account, you can create on for free here
- Marketo API Credentials: Munchkin ID, REST URL, Client ID / Client Secret

### **Create a Resource Group:**

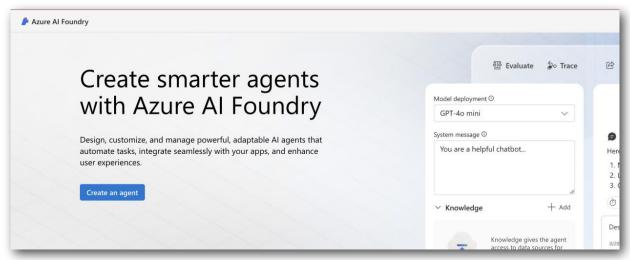
- 1. <u>Azure Portal</u> → <u>Resource groups</u> → Create.
- 2. Name: rg-aiql-prod (or your naming standard), choose subscription + region → Review + Create.



# Create the Azure AI Studio workspace

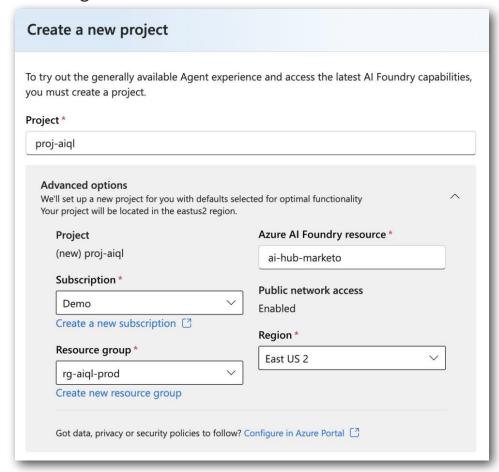
Azure Al Studio uses a **Hub** → **Project** structure and attaches dependent services.

1. Go to Azure Al Studio (formerly "Foundry").



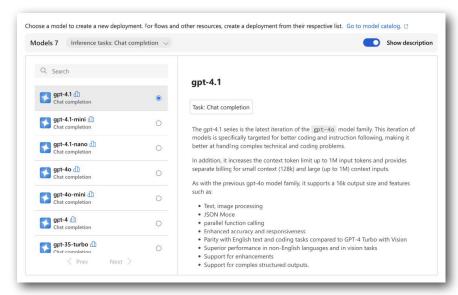
### 2.. Click the Create an agent button.

This will create an AI Foundry Hub, Project and Agent. Give both the project and AI Foundry Resource a name. Use the resource group you created before and select the same region.

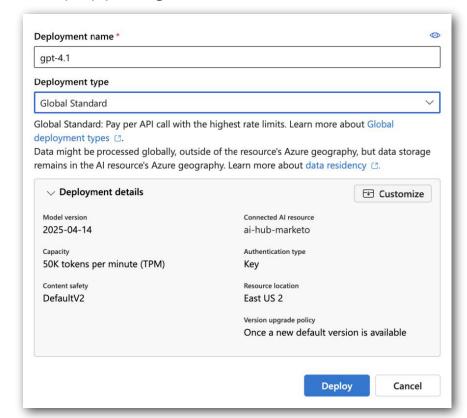


# **Create the Azure AI Studio workspace**

### 3. Select a model



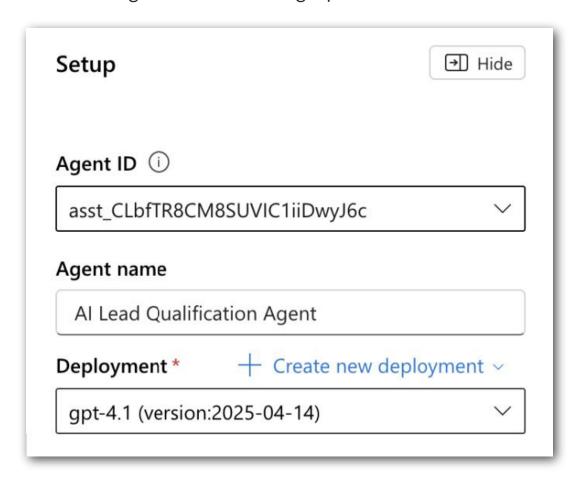
### 4. Deploy your agent



Tip: Keeping everything in the **same region & subscription** avoids cross-boundary headaches.

# **Create the Azure AI Studio workspace**

5. Give the agent a name in the right panel



Take note of your Agent ID here. We will use it later to trigger the agent.

# **Give your Agent Instructions**

Give your agent clear directions on what to do and how to do it. Include specific tasks, their order, and any special instructions like tone or engagement style.

Your job is to analyze inbound leads for our corporate real estate company and decide the most appropriate next step based on available data.

### **What To Review**

- Lead data (behavioral, engagement, activity logs).
- · Company data (firmographics such as size, industry, geography).
- Ideal Customer Profile (ICP) check the vector store to evaluate how closely the lead and their company match our ICP.

After reviewing, you will call the Logic App by sending a JSON payload with the following fields:

- leadID The Marketo ID of the lead.
- **aiAction** The action you recommend for the lead. This must exactly match one of these values:
  - **qualify** The lead is a good fit and ready for sales follow-up.
  - **disqualify** The lead is not a fit and should be removed from active pursuit.
  - **nurture** The lead is promising but not ready for direct sales contact; should enter a nurture program.
  - hr The lead is an internal HR inquiry and should be routed to the HR team.
- aiExplanation A concise summary of why you chose this action. Reference key factors like ICP match, company profile, lead behavior (e.g., form fills, email engagement), and intent signals.
- aiCategory A short label for the lead's classification (e.g., "Strong ICP Fit," "Low Engagement," "Competitor," "HR Inquiry").
- leadScore A numeric score (0–100) reflecting how likely the lead is to convert based on behavior and engagement.
- icpScore A numeric score (0–100) reflecting how closely the lead matches our corporate real estate ICP (from the vector store).

# **Give your Agent Instructions**

### **Decision process**

- 1. Always check the ICP fit in the vector store first to ensure alignment with the Ideal Customer Profile.
- 2. Weigh recent lead activity and engagement.
- 3. Use company firmographics to validate alignment with corporate real estate opportunities.
- 4. Choose the most appropriate aiAction.
- 5. Fill in all fields with clear, defensible reasoning.

If you are uncertain, you may call the **getApproval** tool before finalizing.

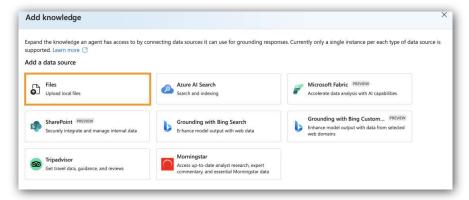
Once a decision has been made, call **requestMarketoCampaign** to trigger the appropriate action.

# **Load Knowledge into a Vector Store**

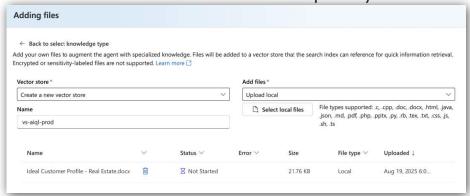
1. On the right panel find the **Knowledge** section and click + **Add** 



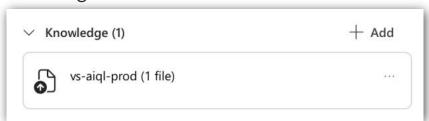
### 2. Select Files



3. Select or create a vector store and upload your ICP Document



4. Click the **Upload and save** button. You should now see the vector store under the knowledge section



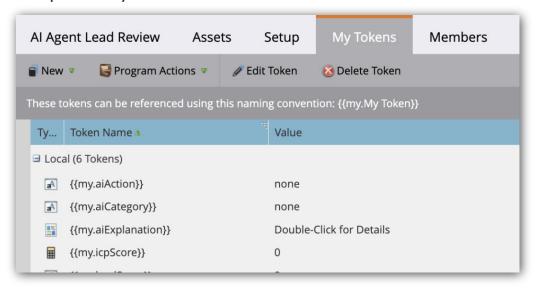
Why vector store? It lets the agent find the **most relevant passages semantically,** not just exact keywords.

# **Setting up in Marketo Engage**

Once our agent reviews and evaluates the leads we've asked it to pass back one of four actions (qualify, disqualify, nurture, hr) and some additional details that we will pass to Marketo Engage when triggering our smart campaign. We need to create a Smart Campaign for each of these actions

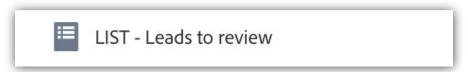
### **Create Programs and Tokens**

Create Program Tokens for each value the agent is expected to send. The value we set at this moment isn't important, because when our agent calls the Smart Campaign it will pass in dynamic values for each lead.



### **Create Watch List**

Create a static list. We will pull leads from this list for our agent to process



You can find the list ID in the URL. Navigate to your static list https://experience.adobe.com/#/@accountName/so:123-ABC-456/marketo-engage/classic/ST**1020**A1LA1

# **Setting up in Marketo Engage**

### **Create Smart Campaign**



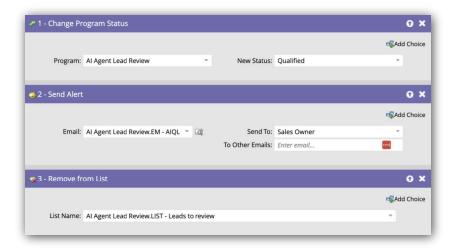
### **Campaign Smart List**

The flow for our smart campaign will all use a single trigger which should be **Campaign is Requested** with source of **Web Service API** which will make our smart campaigns triggerable via the API.



### **Campaign Flow**

The flow for each campaign should match the action passed, but it can be whatever we want it to be. However, for our flow it is important to remove the user from the watchlist so it isn't processed again.



# **Setting up in Marketo Engage**

We can use all of the program tokens to change data value

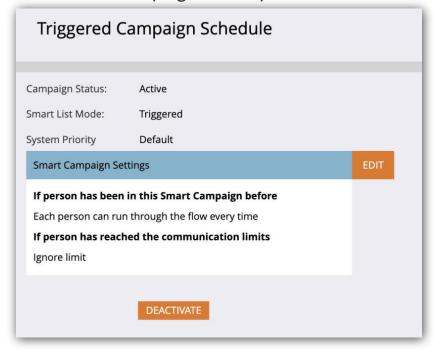


We can also use them in the body of our emails. For a sales alert.

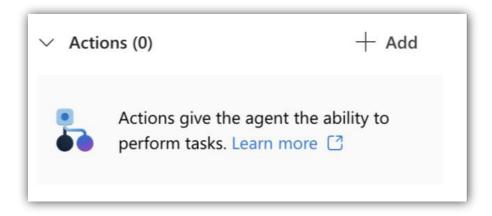


### **Campaign Schedule**

Activate the campaigns so they are now available



In the right panel you will see an area for "Actions" where we can add tools for our agent to use, but first we need to create this functionality. In our case we will use Logic Apps to build our agents tools. These are no-code options for building data flows.



We will create three key actions:

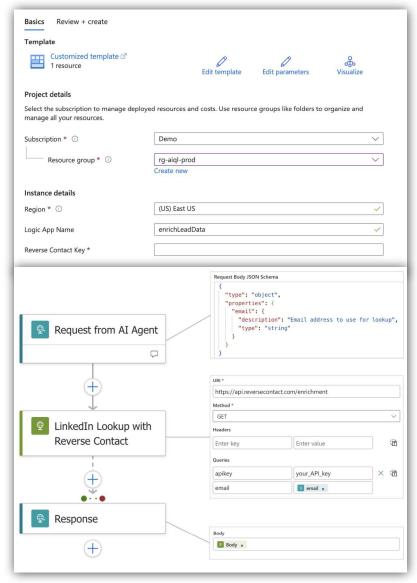
- enrichLeadData
- getLeadActivity
- requestMarketoCampaign

### enrichLeadData

### **Deploy to Azure**

For lead enrichment, I'm using <u>Reverse Contact</u> via a simple HTTP API call to get a more complete picture of the lead and their company. You can use any third-party or internal resource for this purpose, but be sure to follow applicable regulations like GDPR and your company's policies. Some other great options are <u>ZoomInfo</u>, <u>Lusha</u>, and FullContact

Place the logic app in the same resource group and region that we created before. Here, you'll need to enter your reverse contact key. If you want to use a different service, you can still use this template. Just enter any value here and then remove this action from the Logic App flow. Later in this guide there is a guide to adding additional Logic Apps actions to our agent.

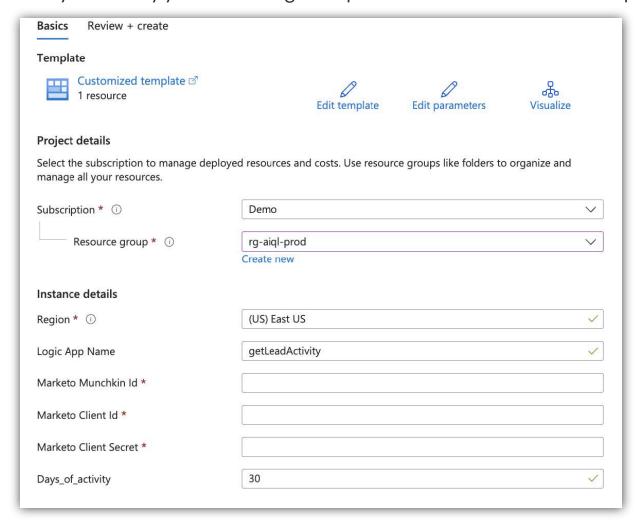


### getLeadActivity

This tool allows the agent to pull the lead's activity history to analyze as part of the holistic review. Unfortunately, there is currently no built in Marketo Engage connector for activities in Azure Logic Apps, and this one gets a little complicated. To help with this I've created a template you can deploy from this link:

### **Deploy to Azure**

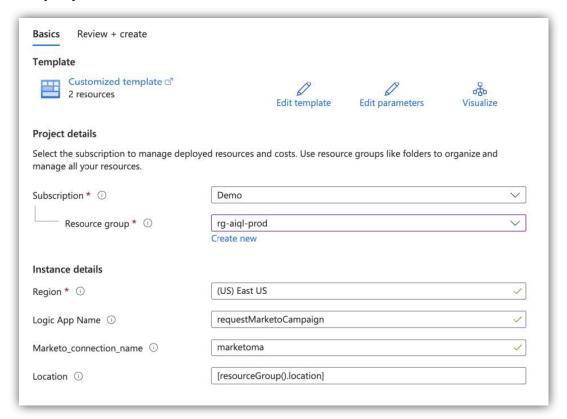
Place the logic app in the same resource group and region that we created before. Here you'll need to enter your Marketo REST API credentials and select the number of days of activity you want the agent to pull. Click **Review + create** and deploy.



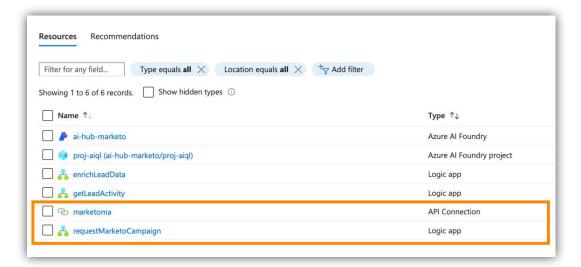
Once created you will see the logic app in your Azure resource group.

### requestMarketoCampaign

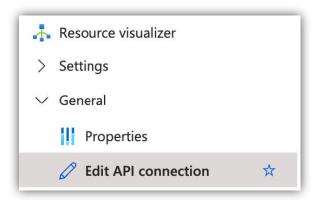
### **Deploy to Azure**



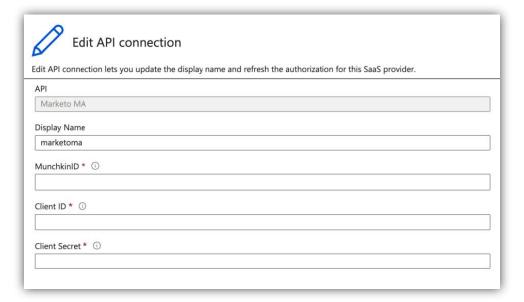
This template will create both the logic app and an API Connection: **marketoma**. First we need to set up the Marketo API connection. Click on it.



Next, in the left side menu select Resource visualizer > General > Edit API connection



Here fill in your Marketo REST API credentials and click **Save** To help generating the credentials, check out the authentication documentation here.



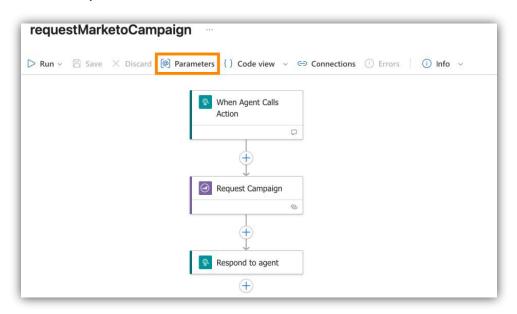
If you don't set this up, you will see an error in the Request Campaign step in the Logic App:



Next go back to the logic app and Edit



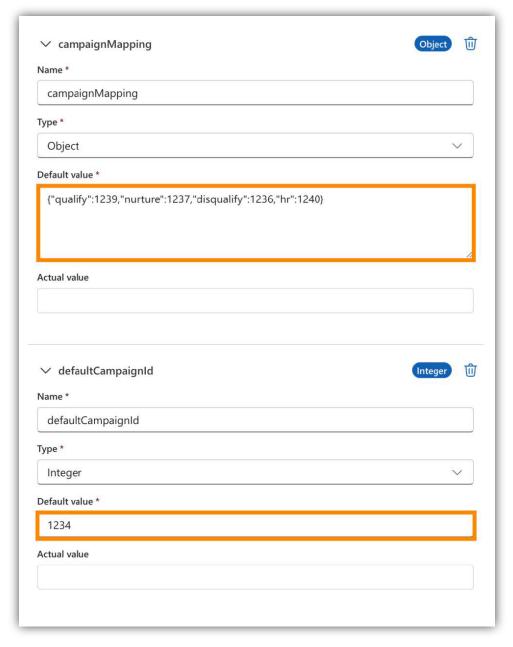
### Edit the parameters



Here we can map the aiActions we've asked the agent to generate, to specific smart campaigns in Marketo. Update these to match your smart campaign IDs and add or change the AI actions you want. Also add a default smart campaign that will be called as a fallback when the AI Action isn't mapped to a smart campaign

You can find the Smart Campaign ID in the Marketo URL. Navigate to your Smart Campaign

https://experience.adobe.com/#/@accountName/so:123-ABC-456/marketo-engage/classic/SC1236A1ZN38



# Register the Logic App as a Tool in the Agent

Now that we've created our actions we need to tell our AI Agent about them.

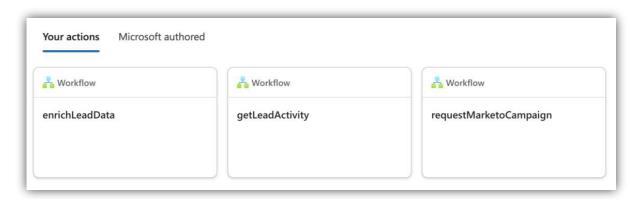
Back in AI Foundry, find the Actions section and click +Add



### Select Azure Logic Apps



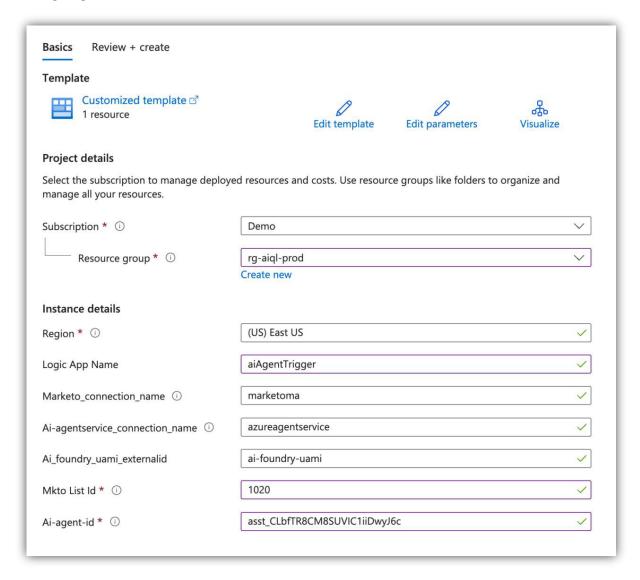
You should now see the Logic Apps created before. Select one and click **Create** then repeat this process for each action.



# Setting up a trigger for our AI Agent

Now that our agent is setup with knowledge and tools, we need a way to trigger it. Specifically, we need to give it leads to review. Here again we will use a Logic App. I will set a schedule to check out Marketo Engage list every 10 minutes and process the leads inside. Here you have a template you can deploy to Azure.

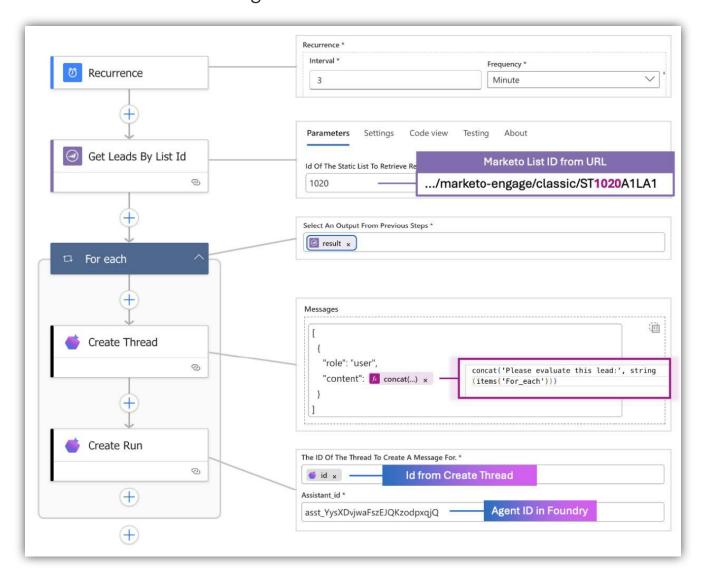
### **Deploy to Azure**



# Setting up a trigger for our AI Agent

We will use the Marketo static list we created.

**Timer** → **Agent:** A Logic App **Recurrence** trigger (e.g., every 10 minutes) pulls leads from our static list and calls the Agent for each record.



Once configured the app will begin checking our static list for leads on the schedule we've set and send them along to our agent to process.

# Test (manual and evaluation runs)

- 1. In **Agents** → **Test**, paste a sample lead JSON (company/contact + recent activity).
- 2. Watch tool calling:
- 3. If data is missing, it should call **Enrich**.
- 4. If strong fit/intent, it should call **Request Campaign** and include token values.
- 5. Validate the **Response** from the Logic App and confirm the **Smart Campaign** was triggered with the right **program tokens**.

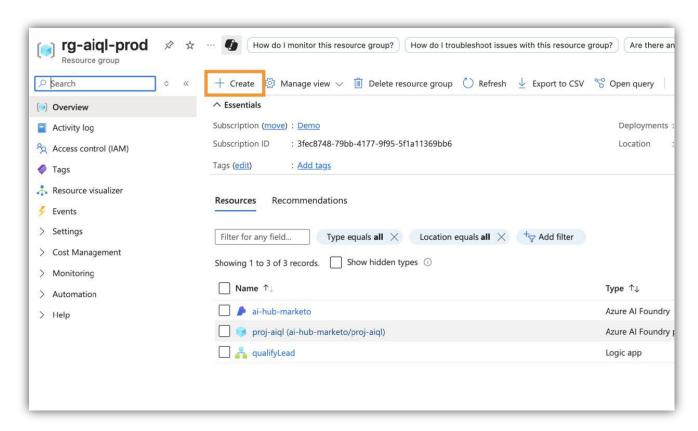
For repeatable testing, use **Evaluations/Prompt Flow** to run batches of sample leads and compare outcomes.

I've created templates for each of the logic apps I'm using, however you may want to create your own from scratch. This is how you can do this.

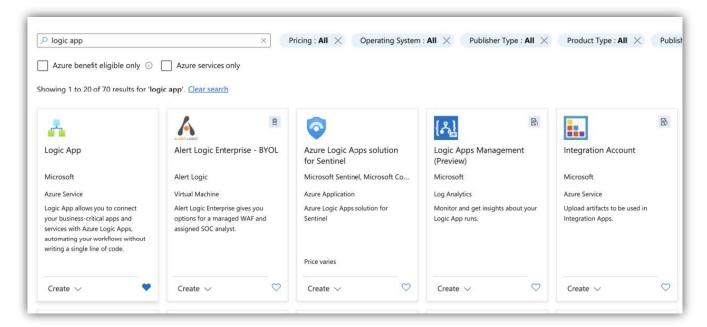
### In order to use a Logic App with our AI Agent it must meet specific requirements

- 1. It must use a **Consumption** plan
- 2. It must be in the same subscription as your agent
- 3. It must have a When a HTTP request is received trigger with a description
- 4. It must have an **Response** action as well to pass back data to the agent

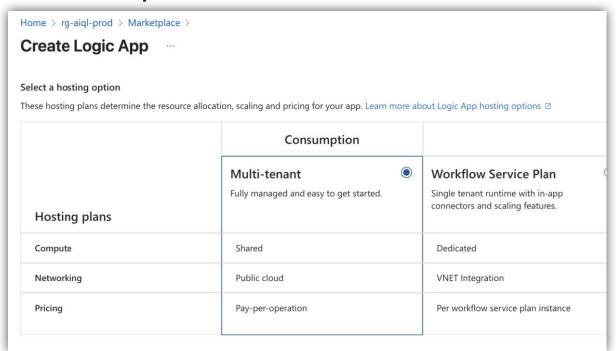
If you do not see your Logic App listed in your available actions, ensure it meets all of these criteria.



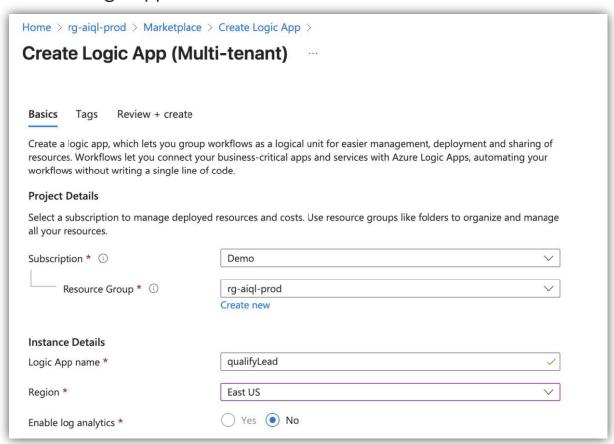
### Select Logic App > Create



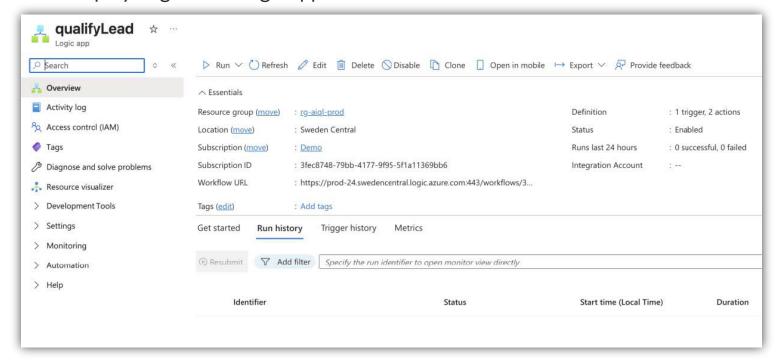
### **Select Consumption**



### Give the logic app a clear name and click Review + Create

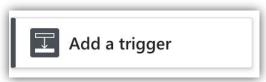


Once deployed go to the logic app and click Edit



For requesting Smart Campaigns our logic app will need 3 parts:

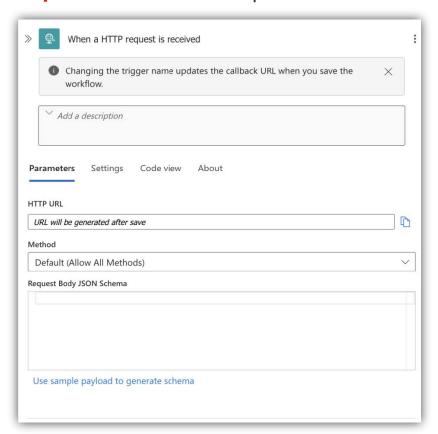
### Click Add a trigger



### Select When a HTTP request is received



Important – The HTTP request must have a description



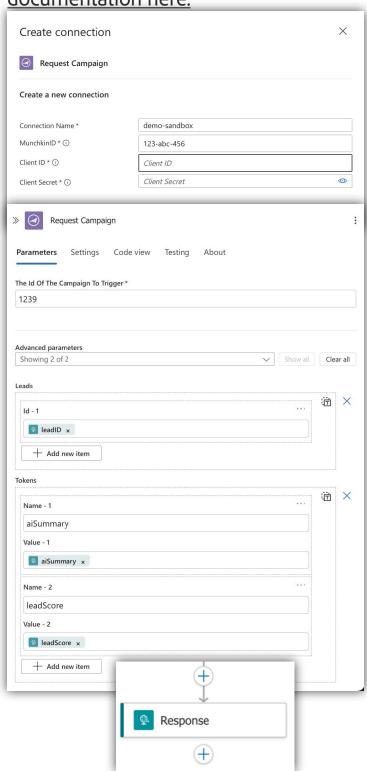
Under Request Body JSON Schema, enter some version of the schema below. The only required parameter is leadID, which allows the agent to pass in the correct lead ID. The other parameters will be tokens that will be passed to Marketo Engage.

```
{
  "type": "object",
  "properties": {
    "aiSummary": {
        "description": "Al generated summary of why the lead is qualified",
        "type": "string"
    },
    "leadScore": {
        "description": "score 1-100 for the lead dec",
        "type": "string"
    },
    "leadID": {
        "description": "Marketo lead id",
        "type": "integer"
    }
}
```

Next add an action and select Request Campaign

If you haven't created a Marketo connection yet you will need to create one with your munchkin ID, client ID and client secret. Check out the <u>authentication</u>

documentation here.



# **Ongoing improvement loop**

- 1. Review Sales feedback and explainability notes attached to qualified leads.
- 2. Tune ICP and Instructions (e.g., adjust how owner vs buyer is detected).
- 3. Expand **Tools** (e.g., add "Data Health Review", "Prospecting" later).
- 4. Gradually reduce person-in-the-loop rules as the system's confidence and accuracy improve.

### **Quick Checklist**

- Azure Account Created
- 2. Marketo API Credentials Obtained
- 3. Azure Resource Group Created
- 4. Azure Al Studio Workspace & Agent Deployed
- 5. Agent Instructions Defined
- 6. ICP Document Uploaded to Vector Store
- 7. Program & Tokens Created
- 8. Watch List Created
- 9. Smart Campaigns Created & Activated (Qualify, Disqualify, Nurture, HR)
- 10. enrichLeadData Logic App Deployed & Configured
- 11. getLeadActivity Logic App Deployed & Configured
- 12. requestMarketoCampaign Logic App Deployed & Configured
- 13. All Logic Apps Registered as Tools in Agent
- 14. Trigger Logic App Deployed & Scheduled
- 15. Manual End-to-End Test Completed Successfully
- 16. Evaluation Run with Batch of Leads Completed

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