Al Agent Talent Acquisition





1. Introduction:

This AI agent analyzes resumes against job descriptions to calculate role-fit scores and provide structured candidate evaluations covering experience, education, and skills. It helps recruiters and hiring managers make faster, more objective hiring decisions by eliminating bias and streamlining the candidate screening process.

2. Instructions:

- A) You will need Postman installed on your system
- B) Download the "AWS_API_Based_Talent_Acquisition_AIAgent.json" API Collection
- C) Import the .json file into Postman as an API Collection
- D) You will see 4 API Calls

 AWS Agentic Marketplace 	
✓ 🗎 API - Trial	
POST authentication	
POST deploy Bot	
POST get_activity_list	
GET get_job_execution_details	

3. Using the APIs

A) **Authentication:** Update the Body with the provided username and password and hit SEND. Once the call is successful it will give you a 200 OK response and generate a TOKEN.

AI Agent – Talent Acquisition

✓ AWS Agentic Marketplace		
Y 🗎 API - Trial	POST v https://trial.my.automationanywhere.digital/v2/authentication	Send ~
POST authentication	Params Authorization Headers (8) Body Scripts Settings	Cookies
POST deploy Bot	∩ none ∩ form-data ∩ x-www-form-urlencoded O raw ∩ binary ∩ GraphQL JSON ✓	
POST get_activity_list	○ none ○ form-data ○ x-www-form-urlencoded O raw ○ binary ○ GraphQL JSON ∨	Beautify
ott get_lob_execution_details	1 { Vusername': "ams.agentic@automationanywhere.com", 3 "password": "Automation@123", 4 "multiplelogin": true 5 }	
		3
	Body Cookies Headers (15) Test Results	200 OK - 775 ms - 3 KB - 🕼 📧 Save Response 👓
	{} JSON V D Preview 🖏 Visualize V	
	1 { 2 **okem*: 'eyJbbciOlSULUMIJ9. 2 **okem*: 'eyJbciOlSULUMIJ9. 2 **okem*: 'eyJbciOlSULUMIJ9	hY1F9sr8q-A8Xjl5tff8X8UPKtl8YxM36cp3kl008Ipd4-f_y4B

B) **Deploy:** Select the Deploy Bot API and update the HEADER section. Replace the X-Authorization value with the recently provided TOKEN.

+ =	RWS Agentic Marketplace / API - Trial / deploy Bot			🖺 Save 🖌 Share		
POST deploy Bot	POST v https://trial.my.automationanywhere.digital/v4/automations/deploy Params Authorization Headers (9) Body • Scripts • Settings Headers © 8 hidden					
POST get_activity_list GET get_job_execution_details	Key		Value	Description	••• Bulk Edit Presets ~	
	X-Authoriz	zation	eyJhbGciOiJSUzUxMiJ9.eyJzdWliOil2NjkzliwiY2xpZW50VHlwZSI6lldFQi			
	Key		Value	Description		
	ΤΟΚΕΝ					
	Response 49 Hi	iistory ~			~	

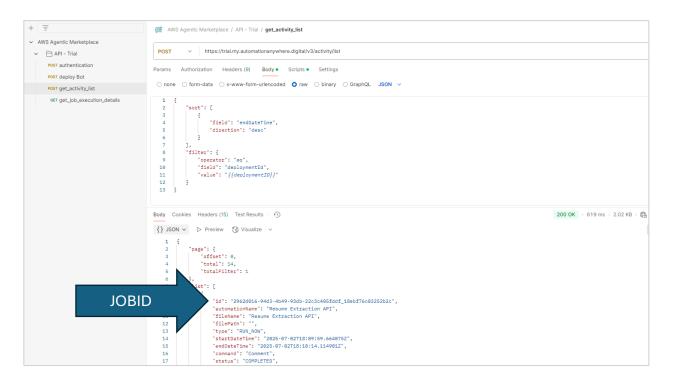
- C) **Deploy:** Update the Body to pass the input parameters. This AI Agent accepts 2 variables (Both these should be passed in the form of text):
 - i) *Job Description*: Role and job details, requirements and experience needed.
 - ii) *Candidate Profile*: The candidate's resume and prior education/experience.

+ 😇	aWS Agentic Marketplace / API - Trial / deploy Bot	🖺 Save 🖌 Share
AWS Agentic Marketplace API - Trial Post authentication Post deploy Bot Post get_activity_list	POST v https://trial.my.automationarywhere.digital/v4/automations/deploy Parama Authorization Headers (9) Body • Scripts • Scripts • Settings onone form-data x-www-form-unencoded O raw O raw O linary O raw	Send Cookies Beautify
oet get_job_execution_details	<pre>1 { 2</pre>	3

D) **Deploy:** Once the API is executed the response will be 200 OK and will deliver a *DeploymentID* and the *AutomationName*



E) Get Activity: This API will show you the progress and current state of the Agent. When you have long-running processes, this API will allow you to capture the completion %. You must update the HEADER with the TOKEN and pass the DEPLOYMENTID in the Body of the API.



F) Get Job Execution Details: This API will fetch the API response from the AI Agent. You need to pass the TOKEN and the JOBID parameters in the API Call. A string containing the full analysis and response will be provided as part of the API response.

AI Agent – Talent Acquisition

WS Agentic Marketplace / API - Trial / get_job_execution_details			🖺 Save 🗸 Share
GET ~ https://trial.my.automationanywhere.digital/v3/activity/execution	n/ {{JobID}}		Send 🗸
Params Authorization Headers (7) Body Scripts Settings Headers 6 hidden			Cookies
Кеу	Value	Description	••• Bulk Edit Presets ~
X-Authorization	{{token}}		
Key	Value	Description	
Body Cookles Headers (15) Test Results ① {} JSON ~ ▷ Preview ⑦ Visualize ~ 37 ************************************		200 OK → 542 ms → 2.83 KB → €	Call Es Save Response ∞∞
<pre>38 "variableMapNames": [] 39 }, 40 "sResult": { 41 "type": "STRING", 42 "string": "Here is my analysis based on the</pre>	provided resume and job description:\n\n <analysis>\n<perso Years of Relevant Experience: 1\nAssessment: The candidate quired for the sales engineer position.\n<<u>(experience</u>>\n\n< equirements. The resume indicates experience in plumbing, w distinct skill sets.\nMatching score: 16%\n<<u>r/role_fit</u>>\n\n the candidate has a technical degree, which could be benefi- ormation, it's difficult to determine how well the educatio vements>\nKey Skills: Plumbing (inferred from work experie- hnical degree\n<<u>/skills_achievements</u>>\n\n<overall_assessmen ales engineer position. The candidate's experience is in pl red 4 years. While they do have a technical degree, which</overall_assessmen </perso </analysis>	has 1 year of experience as a plumber, role_fit>\nAssessment: The candidate's hile the job description seeks a sales <education>\nQualifications: Technical ioial for a sales engineer role, the si n aligns with the job requirements for nce)\nNotable Achievements: None mentit t>\nBased on the provided information, umbing rather than sales engineering.</education>	which does not experience and engineer. These are degree (specific pecific field of a sales engineer oned\ncertifications/ the candidate does and they have only 1

4. API-Based Agents Deployment in AWS:

There are many ways to use Automation Anywhere AWS API-Based AI Agents which allow customers to call an API-based AI Agent via a URL endpoint. These assets will help accelerate the build and deployment of AI-powered applications. Here are some simple ways to implement this, including using AWS Lambda functions and other AWS services:

A) AWS Lambda Functions



- Trigger via API Gateway: Set up an API Gateway to expose a REST endpoint. When a customer calls this endpoint, it triggers a Lambda function that interacts with your API-Based AI Agent.
- Event-Driven: Use AWS Lambda to handle events from other AWS services (e.g., S3 uploads, DynamoDB updates) and call your API-Based AI Agent based on these events.

B) Amazon API Gateway



REST API: Create a REST API using API Gateway. This API can have various • endpoints that map to different functionalities of your API-Based AI Agent.

• WebSocket API: For real-time communication, use WebSocket APIs to maintain a persistent connection between the client and your API-Based AI Agent.

C) AWS Step Functions

 Orchestration: Use Step Functions to orchestrate multiple AWS services. For example, a customer calls an API Gateway endpoint, which triggers a Step Function that coordinates calls to Lambda functions, DynamoDB, and your API-Based Al Agent.



- D) Amazon S3
 - Static Website Hosting: Host a static website on S3 that provides a user interface for interacting with your API-Based AI Agent. The website can call the API Gateway endpoints to communicate with the API-Based AI Agent.
 - Event Notifications: Use S3 event notifications to trigger Lambda functions when new objects are created, which can then call your API-Based AI Agent.



- E) Amazon SNS & SQS
 - Message Queues: Use Amazon Simple Notification Service (SNS) or Simple Queue Service (SQS) to handle messages between your customers and the API-Based Al Agent. Customers can send messages to an SNS topic or SQS queue, which triggers a Lambda function to process the message and call the API-Based Al Agent.



F) Amazon Bedrock

- Al Agent Platform: Utilize Amazon Bedrock to deploy and manage your AI API-Based AI Agent. Bedrock supports various foundation models and provides a scalable platform for AI-driven interactions
- Agent Builder or Workflow builder: Leverage agentic and workflow builders ٠ inside Amazon Bedrock by configuring direct calls to extend solutions with the API-based AI Agents as tools.



Is a valuable addition to your solution. Amazon Q enables its own functionality, pulling multiple AWS features to work together, and further leveraging Amazon Q for API-Based AI Agent utilization.

 Action/Flow Execution: Use Amazon Q's API to define and execute specific actions or flows. For example, you can create a flow that handles customer inquiries, processes data, or triggers other AWS services.

AI Agent – Talent Acquisition

• **API Calls**: The Lambda function can make API calls to Amazon Q to initiate these actions. This ensures that the interaction is seamless and efficient.

• **Step Functions:** These calls can include calling the API Gateway endpoint, triggering the Lambda function, and interacting with Amazon Q.

• Enhance existing Automation Anywhere solutions

• Automation Co-Pilot: Use Automation Anywhere's Automation Co-Pilot to embed automation capabilities within your application. This can be configured to call the Amazon Q API for specific tasks.

• <u>Al Agent Studio</u>: Leverage Automation Anywhere's Al Agent Studio to create and manage Al agents that can interact with Amazon Q. These agents can be programmed to handle various workflows and processes.