AWS Marketplace Offering (HAI Build V1) - How to Guide?

Overview of HAI Build

HAI Build is an innovative platform transforming the software development lifecycle (SDLC) by seamlessly integrating Aldriven solutions into every stage. Designed to cater to both new and ongoing projects, HAI Build accelerates development while maintaining precision and adaptability through two key components:

1. Specif Al

An intelligent application that redefines how teams gather, refine, and manage requirements. Powered by AI, it organizes inputs into detailed Business, Product, Non-Functional, and User Interface specifications, ensuring clarity and actionable outputs. This smart solution bridges the gap between stakeholders and development teams with context-aware suggestions that enhance collaboration and decision-making.

2. Code Generator (VS Code Plugin)

A generative AI-powered tool that empowers developers to translate detailed tasks into deployable code. This plugin supports a wide range of programming languages and frameworks, ensuring adherence to industry standards and best practices. Leveraging a continuous feedback loop fosters collaboration between developers and AI, enabling the creation of adaptable, high-quality code.

Introduction

This guide provides a detailed walkthrough for deploying **HAI Build** using an AWS CloudFormation Stack. It covers the following steps to unlock the full potential of AI-driven software development:

1. Download and Setup

- **Specif AI**: The Frontend Electron App for intuitive requirement management.
- **Code Generator**: The VS Code Plugin Build for AI-assisted code generation.

2. Deployment Process

- Automates resource provisioning for the **Specif Al Backend App** using a pre-configured CloudFormation template.
- Simplifies deployment to ensure rapid and efficient setup of the AI-powered infrastructure.

By following this guide, users can seamlessly integrate HAI Build into their workflow, enabling precision-driven requirement management and adaptive, high-quality code generation.

Prerequisites

- LLM Keys: LLM keys are essential for the Hai Build Specif AI and Code Generator applications. Both support multiple models, including Azure OpenAI, OpenAI Native, and AWS Bedrock. You must obtain an LLM key from at least one LLM provider corresponding to the chosen model to enable the application to function.
- **AWS Account**: Access to an AWS account with required permissions.
- IAM User Permissions: AdministratorAccess or equivalent. https://aws-marketplace-cfn-template.s3.us-east-1.amazonaws.com/policy.json
- **Backend Hosting Domain**: A Domain for the Backend Service to be hosted. Link to register a domain using Route 53.
 - Certificate Name setup for your domain as detailed in the ACM Documentation.
- AWS Marketplace Subscription: Subscribe to Presidio HAI Build through AWS Marketplace.
- Sentry Integration (Optional): Retrieve and monitor application logs in Sentry for enhanced debugging.

Steps to Deploy Presidio HAI Build

1. Access AWS Marketplace

• Navigate to the Presidio HAI Build listing and click "View Purchase Options" for subscription options and pricing.

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About - Categories -	Delivery Methods 👻 Solutions		d List		Become a Channel Partner	Sell in AWS Marketplace	Amazon Web Services Home	Help
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	AWS Marketplace > Gen	rative AI > Container ima	ge > HAI Build					
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	HAI Build accelerates the se gathering to code generation	ftware development lifecyc on. Whether enhancing exist	le by integrating AI into every ing applications or building a r	stage - from requirements new solution, HAI Build				
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Details

2. Accept Terms and Conditions

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• Review and accept the Terms and Conditions for the offering.

Human AI (HAI) Build By Presidio Unlock the next evolution in software development with Presidio Human AI Build (HAI Build), a cutting-edge AI-driven solution designe.

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		Terms and	d Conditions							
		Presidio AI Solutions Offer 2024-11-12								
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• Once accepted, click "*Continue to Configure*" to view the different Versions of the *Presidio HAI Build* to launch.

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3. Choose the Deployment Version

• Select the desired version of the Presidio HAI Build application and click "Continue to Launch".

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About * Categories *	Delivery Methods 🛪	Solutions 👻	Resources 👻 You	r Saved List		Become a Channel Partner	Sell in AWS Marketplace	Amazon Web Services Home Help
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4. Review Configuration Details

View the supported services and deployment configurations for your setup. The deployment template section includes the following links:

- **Setup Guide**: Download the detailed guide for step-by-step instructions.
- **CloudFormation Template**: Use the template to configure backend services for the Specif AI seamlessly.
- : Download the Electron Desktop version for macOS (Intel, ARM) or Windows.
- **Code Generator**: Download the VS Code Plugin compatible with macOS (Intel, ARM) or Windows.

aws n	narketplace			Q. Search			Hello, assumed-role/AWSRes 👻
About 🕶	Categories 🛩	Delivery Methods 🛩	Solutions * Resources *	Your Saved List		Become a Channel Partner Sell in AWS Marketplace	Amazon Web Services Home Help
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			Deployment to Choose a deploy links to instructie Setup Guide (3° Cloud Formation HAI – Specif AI (2) HAI – Code Gene	mplate ment template from the following list to launch this software. Depl and information about launching and using this software. Template (an east-1) Cf assor (C	oyment templates are seller-provided		
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CloudFormation Stack Deployment

The CloudFormation Stack Deployment automates the creation of the required AWS infrastructure for the **Presidio HAI Build** in the customer's AWS account. Below is a step-by-step guide to deploying the CloudFormation Stack.

Step 1: Launch the CloudFormation Template

- Click on the provided **CloudFormation template** link for ECS deployment.
- This will navigate to the AWS CloudFormation page with the **Presidio HAI Build CFT template** pre-filled.
- Review the information and Click **Next** to proceed to Step 2

CloudFormation > Stacks	> Create stack	[00001-3]		·~·	U	Ŷ	n. vngana v		
CloudFormation < Stacks Stacksets Exports Infrastructure Composer IaC generator Hooks overview New	Step 1 Create stack Step 2 Specify stack details Step 3 Configure stack options Step 4 Review and create	Create stack Prerequisite - Prepare templat You can also create a template by scanning; Prepare template Wery stack is based on a template. A template is a template, a template content of the state of	e your existing resource JSON or YAML file that d	es in the contains o	laC gen configura O Buil Crea	erator [tion infor d from I te a tem	3. mation about the Infrastructure Co slate using a visual	NWS resources you want to include imposer builder.	in
Hooks New Registry Public extensions Activated extensions Publisher		Specify template info A template is a JSON or YAML file that descr Template source Selecting a template generates an Amazon S3 URL Manzzon S3 URL Provide an Amazon S3 URL to your template.	tibes your stack's reso where it will be stored. Upload a te Upload your t console.	mplate f	nd prope file directly to	o the	Sync	c from Git a template from your Git repositor	у.
Spotlight Feedback		Amazon S3 URL https://hai-marketplace-prod-assets-113/ Amazon S3 template URL	497306513.s3.us-eas	t-1.ama	zonaws.	com/clo	udformations/t	emplates/cfn.yaml	
		S3 URL: http://hai-marketplace-prod-asse	tts-113497306513.s3	3.us-east	t-1.amaa	onaws.	com/cloudforma	Cancel	Next

Step 2: Provide Stack and Parameter Details

1. Review the Information: Verify the pre-filled template and click Next.



CloudFormation < Stacks StackSets Exports

Infrastructure Composer IaC generator

Hooks overview New

Hooks New

Public extensions

Activated extensions Publisher

▼ Registry

Spotlight

Feedback

Specify stack details

O Introducing the new Hooks experience and capabilities Hooks's new console workflow simplifies how you author your hooks by <u>using Lambda functions</u> (2) or <u>Guard domain-specific language</u> (DSL) (2). You can also <u>learn more</u> (2) about the expanded evaluation targets.

Step 2 Specify stack details Step 3 O Configure stack options

Step 4 Review and create

Step 1 Create stack

Provide a stack name Stack name

Enter a stack name

Stack name must be 1 to 128 characters, start with a letter, and only contain alphanumeric characters. Character count: 0/128.

Parameters Parameters are defined in your template and allow you to input custom values when you create or update a stack.

AppPasscodeKey App Passcode Key

Enter String

AzureAIAPIBase Azure AI API Base Url (Required if using Azure AI) Enter String

AzureAIAPIKey Azure AI API Key (Optional if using OpenAI or Claude) Enter String

AzureAIAPIVersion Azure AI API Version (Required if using Azure AI)

Enter String

CPUUtilizationThreshold 75

CertificateArn ARN of existing ACM certificate (https://docs.aws.amazon.com/acm/latest/userguide/setup.html) (AWS Console ---> AWS Certificate Manager (ACM) --> Certificates (*.DomainName.com)) Enter String

ClaudeAPIKey Claude API Key (Optional if using OpenAl or Azure AI) Enter String

ClaudeEndPoint Claude API url (Required if using Claude) Enter String

ContainerCpu CPU units for the container (1024 = 1 vCPU) 2048

ContainerImage URI of the container image in ECR

709825985650.dkr.ecr.us-east-1.amazonaws.com/presidio/hai-build:1.9.5

ContainerMemory Memory for the container in MB

4096 ContainerPort

he container listens on 80

DesiredCount Desired number of tasks 1

DomainName
Primary domain name (e.g., If AWS Cloud AWS Console --> AWS Route53 --> Domains (example.com)) Enter String

Environment Environment name and for detailed environment-specific cost estimate (https://calculator.aws/#/estimate? id=6dc91b6387824a189863bc87e8fdd56c134583e4)

prod

HostedZoneld Existing Route 53 hosted zone ID (e.g. If AWS Cloud AWS Console --> AWS Route53 --> HostedZones(Choose) --> Domain --> Hosted zone details --> Zoneld) Enter String

MaxCapacity Maximum number of tasks

4

MinCapacity Minimum number of tasks

OpenAIAPIKey OpenAI API Key Enter String

OpenAIModelName

gpt-4o

SentryDsn

Optional

SentryEnvironment Sentry Environment

Optional

SentryRelease

Optional

SubDomainName Subdomain prefix (e.g., app for app.example.com)

Enter String

•

View Hooks overview

10.0.0/16			

2. Enter Stack Name and Parameters: In Step 2, fill out the required fields as outlined below:

Parameter Name	Description	Default/Sample Value
AppPasscodeKey	App Passcode for logging into the Specif Al Frontend.	Example: 987654
AzureAIAPI Base	Azure Al API Base Url (Required if using Azure Al) for backend Services. The value can be inferred from the Azure Open Al Deployment Configuration. In Settings, select the Azure OpenAl provider and the appropriate deployed model to utilize the Azure Deloyed LLM Model.	Example: https://example- azure- ai.openai.azure.com/openai/d eployments
AzureAIAPI Key	Azure Al API Key (Required if using Azure Al) for backend Services.	Example: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
AzureAIAPI Version	Azure Al API Version (Required if using Azure Al) for backend Services.	2024-08-01-preview
CPUUtilizationThreshold	CPU utilization threshold for scaling.	Default: 75
CertificateArn	ARN of the existing ACM certificate.	Example: arn:aws:acm:us- east- 1:xxxxxxxx:certificate/xx xxxxxx-xxxx-xxxx- xxxxxxxxxxxx
ClaudeAPIKey	Claude API Key (Optional if using OpenAl or Azure Al) In Settings, select the AWS Bedrock provider and the anthropic.claude-3-5-sonnet- 20240620-v1:0 deployed model to utilize the AWS Bedrock Deloyed LLM Model.	Example: pk-xx-xxxxxxx-xxxx- xxxxxxxxxxxxxxx

	Setting •	
ClaudeEndPoint	Claude API URL (Required if using Claude)	Example: http://example-bedrock-xxxx- xxxx.us-west- 2.elb.amazonaws.com/api/v1/
ContainerCpu	CPU units for the container $(1024 = 1 \text{ vCPU}).$	Default: 2048
ContainerImage	ECR URL of the container image.	Default: 709825985650.dkr.ecr.us- east- 1.amazonaws.com/presidio/hai -build:1.9.4
ContainerMemory	Memory for the container in MB.	Default: 4096
ContainerPort	Port for HTTP server requests.	Default: 80
Desired Count	Desired number of tasks to run.	Default: 2
DomainName	Primary domain for hosting the Specif Al App.	Example: http://example.com
Environment	Deployment environment name.	Default: prod
HostedZoneId	Route 53 hosted the zone ID for the domain Backend App	Example: (Route 53 Hosted Zone Details)
MaxCapacity	Maximum number of tasks.	Default: 4
MinCapacity	Minimum number of tasks.	Default: 1
OpenAlAPIKey	OpenAI API key for backend services.	Example: sk- xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx xxxx
OpenAlModelName	Open Al Model Name for Backend Services LLM calls.	Example: gpt-4o
SentryDsn	Sentry DSN for monitoring and error tracking(Optional).	Example: https://xxxxxxxxx.ingest. sentry.io/xxxxxxx

SentryEnvironment	Environment name for Sentry integration(Optional).	Example: prod
SubDomainName	Subdomain prefix (e.g., app for app.example.com).	Example: app
VpcCidr	CIDR block for the VPC.	Default: (Ensure NAT Gateway availability)

3. Proceed to the Next Step.

Step 3: Add Tags, Permissions, and Options

- Provide **tags** for better resource management.
- Configure stack permissions and specify failure handling options.
- Accept the required capabilities and click Next.

ormation < () Introducing the new Hooks	zzperience and capabilities
Hooks's new console workflo the expanded evaluation targ	w simplifies how you author your hooks by <u>using Lambda functions</u> (2 or <u>Guard domain-specific language (051)</u> (2: You can also <u>learn more</u> (2) about ets.
Step 1 Create stack	Configure stack options
re Composer Step 2	Tans - optional
tor the t	Tags (key-value pains) are used to apply metadata to AWS resources, which can help in organising, identifying and categorising those resources. You can add up to 50 unique
Configure stack options	tags for each stack.
Step 4	
0 4441	Add new tag Visu can add 50 ment bald
nsions	Bermissions - antional
extensions	Specify an existing AWS Identity and Access Management (IAM) service role that CloudFormation can assume.
	IAM role - optional
	IAM role name Remove (Construction of the second
	Stark failure ontions
	Behavisor on provisioning failure
	Specify the roll-back behaviour for a stack failure. Learn more 🖸
	Roll back all stack resources Roll back to the last known stable state.
	O Preserve successfully provisioned resources preserves the state of successfully annohibited measures while rolling back failed answers to the last invest state state.
	Resources without a last known stable state will be deleted upon the next stack operation.
	Delete newly created resources during a rollback
	Specify whether resources that were created during a failed operation should be deleted regardless of their deletion policy. Learn more 😭
	Retains or deletes created resources according to their attached deletion policy.
	 Deletes all newly created resources Deletes created resources during a rollback regardless of their attached deletion policy.
	Advanced options
	You can set additional options for your stack, like notification options and a stack policy. Learn more [
	Stack policy - optional
	Defines the resources that you want to protect from unintentional updates during a stack update.
	Ballback configuration - optional
	Specify alarms for CloudFormation to monitor when creating and updating the stack. If the operation breaches an alarm threshold, CloudFormation rolls it back.
	Notification options - optional Specify a new or existing Amazon Simple Natification Service topic where notifications about stack events are sent.
	Stack creation options - optional
	specify the timeout and termination protection options for stack creation.
	Capabilities
	() The following resource(s) require capabilities: [AWS::CloudFormation::Stack]
	This template contains identity and Access Management (IAM) resources. Check that you want to create each of these resources and that they have the minimum required permissions. In addition, they have customised pames. Check that the customised pames are unique within your AMS access. Lawo move I/B
	For this template, AWS CloudFormation might require an unrecognised capability: CAPABILITY_AUTO_EXPAND. Check the capabilities of these resources. Learn more [2]
	I acknowledge that AWS Cloudformation might create IAM resources with customised names.
	I acknowledge that AWS CloudFormation might require the following capability:
	CAPABILITY_AUTO_EXPAND

Step 4: Review and Execute

- Review the Stack Configuration: Ensure all parameter values and the complete template are correct.
- Click **Execute** to deploy the resources.



Post-Deployment Verification

1. Check Stack Status: Confirm that the parent CloudFormation stack and its four nested stacks have been successfully created.

2. Retrieve the Backend URL:

- Go to the **Outputs** section of the parent stack.
- Note the fully hosted URL for the **Presidio HAI Build Backend** (e.g., https://app.example.com/).

	hooks by using Lambda functions [?]				
CloudFormation <	or Guard domain-specific language	aws-marketplace	-test-2-dec		۲
Stacks	about the expanded evaluation			Delete Update (Stack actions V Create stack V
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laC generator	View nested	Key	▲ Value	▼ Description	▼ Export name ▼
Hooks overview New	Stacks	ApplicationURL	https://mark arvis.create. d	ketplacetest.j presidio.clou Application URL	-
Hooks New	NESTED aws-marketplace-test-2-dec-	StackName	aws-marketp dec	place-test-2- Stack Name	aws-marketplace-test-2- dec-StackName
Registry	O DNSStack-CI1RMZGRICJD				
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Activated extensions	© CREATE_COMPLETE	"			
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	ECSClusterStack-6I2GP3LNPGSM				
Spotlight	2024-12-02 15:26:56 UTC+0530				
eedback	aws-marketplace-test-2-dec-				
	LoadBalancerStack-1D13K6AGG1VND 2024 12 02 15 25 50 UTC: 0070				
	CREATE COMPLETE				
	NECTED				
	aws-marketplace-test-2-dec-				
	NetworkingStack-GHW31GABGXOK				
	CREATE COMPLETE				
	aws-marketplace-test-2-dec				
	⊘ CREATE_COMPLETE				

Steps to Download and Set Up HAI Build Specif AI App Frontend and Code Generator VS Code Plugin

The following steps guide you through the process of downloading and setting up the **HAI Build Specif AI** Frontend and the **Code Generator VS Code Plugin (VSIX)**.

aws marketplace	Q. Search Resources * Your Saved List	Become a Channel Partner Sell in AWS Marketplace	Helia, assumed-role/AWSRes v Amazon Web Services Home Help
	QÌ. HAI Build		
	whether is software is control or control o		
	Deployment template Zonce a deployment template from the following lot fa launch this software. Deployment templates are setter- plate to instructions and information about launching and using this software. Social Formation Template (so east-1) 0? via - Social Commenter 0?	mediad	
	Container images The product has transition image. The following command to authenticate to Amazon flasts: Container Registry and download the container in any ecr get-login-passaired \ 	999. 77	
	🖌 AWS Marketplace on Twitter 🔠 AWS Marketplace Blog 👔 RSS Feed		

1. Download the Required Builds

Utilizing the provided download links from the AWS Marketplace - Deployment Template section, **Download** the appropriate builds for your platform:

 HAI Build Specif AI App Frontend: Select the Desktop App that matches your operating system (macOS Intel/ARM or Windows).

🗸 🚞 HAIBuild-Specif Al-1.9.5 3		Folder
Specif AI-1.9.5-Windows.zip	118.9 MB	ZIP archive
Specif AI-1.9.5-arm64.dmg	104 MB	Disk Image
Specif AI-1.9.5-x86.dmg	111.5 MB	Disk Image

• HAI Build Code Generator Plugin (VSIX): Select the VSIX package that matches your operating system (macOS Intel/ARM or Windows)

CodeGenerator-3.0.1	Today at 4:30 PM
hai-build-v3.0.1.vsix	Today at 4:28 PM

2. Set Up the HAI Build Specif AI Frontend

For Windows:

- Unzip the downloaded zip file and locate the .exe installer for the Specif AI.
- Run the installer and follow the on-screen instructions.
- Once installed, launch the HAI Build Specif AI from your desktop or the Start menu.

For macOS:

- Locate the downloaded **.dmg** file for the Specif AI App.
- Open the .dmg file and drag the application into your Applications folder.
- Launch the **HAI Build App** from the **Applications** folder.

3. Set Up the HAI Build Code Generator Plugin (VSIX)

- Open Visual Studio Code on your machine.
- Click on the Extensions icon in the left sidebar to access the Extensions Marketplace.
- In the top-right corner of the Extensions panel, click the three-dot menu and select Install from VSIX.
- Locate the downloaded VSIX file and click Install.
- After installation, open the HAI Build Code Generator Plugin from the Extensions menu.

4. Verify the Setup for Specif AI:

Follow these steps to ensure the successful setup of the HAI Build Specif AI:

• Access the Specif AI:

- Open the Specif Al installed on your system.
- Use the App URL obtained from the deployed Backend URL during the CloudFormation deployment.
- Enter the App Passcode which was provided as a parameter(AppPasscodeKey) during the CloudFormation deployment process to log in.
- Choose the HAI Build Destination Folder that stores the requirements generated by HAI Build.



Check Functionality

- $\circ~$ Verify successful login using the App URL and provided credentials.
- Select LLM Config under the settings section.
 - Hit the Settings icon as shown below

hai BUILD	PRESIDIO @ 🖻 0
\leftarrow $ m \ $ Solutions	Select Settings for LLM selection
Solutions	Create Solution

- As shown below, the user can select the LLM Provider and appropriate Model on the settings page and *save* the changes. Choose the model that best suits your needs. Supported models include:
 - Azure OpenAl
 - ∘ gpt-4o
 - gpt-4o-mini
 - OpenAl Native
 - ∘ gpt-4o
 - gpt-4o-mini
 - AWS Bedrock

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	Providers OpenAl Native		~			
	Model gpt-40					
		Cancel	Save			
	-					
	Accelerate	e SDLC process with Presidio				1.9.5

Note: Ensure the relevant Provider AI Keys are provided on the Backend Services via the Parameters Section.

- Create a sample solution and validate the generated BRD, PRD, and other specifications.
- Utilize the "Expand with AI" and "AI Chat" options by editing any of the solution requirement specifications (BRD, PRD, User Story, Task, User Interface, Business Process)

5. Verify the Setup for Code Generator Plugin

Follow these steps to confirm the successful setup of the HAI Build Code Generator Plugin:

• Access the Plugin:

- Open Visual Studio Code.
- Press **Ctrl + Shift + P** (or **Cmd + Shift + P** on macOS) to open the command palette.
- Search for and select "View: Show HAI Build" to access the HAI Plugin.

Configure Settings:

- Navigate to the **Settings Page** within the plugin.
- Add the **OpenAl API Key** to enable functionality.
- Test Code Generation:
 - Use the **chat option** within the plugin to execute a sample task from the Code Generator.

Import and Validate:

- Click on HAI Tasks and Import the Solution folder inside the HAI Root Folder.
- Execute code generation for a sample task created in the Specif AI to ensure proper functionality and output accuracy.

This guide provides detailed steps to deploy, download, set up, and verify the proper functioning of the **HAI Build Specif AI Frontend** and the **Code Generator VS Code Plugin**. If you encounter any issues during deployment or setup, refer to the documentation for troubleshooting.