



DevicePulse.Al

User Manual [V 5.4.9]







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Introduction to DevicePulse.Al

In the rapidly evolving Internet of Things **(IoT)** landscape, delivering high-quality and reliable devices is key for companies to remain competitive, especially those offering IoT solutions to monitor and alert on critical situations, such as those encountered in hospital ICU departments. Proper maintenance of these devices is vital as it directly affects their performance, safety, and client satisfaction. Without rigorous continuous monitoring IoT devices are more likely to have defects, perform unreliably, and fail to meet consumer expectations. To address the challenges faced by IoT companies in delivering high-quality and reliable devices, Senzmate has developed an AI-driven platform, DevicePulse.AI This platform provides a comprehensive solution that integrates seamlessly with IoT and connected technology, enhancing testing and monitoring capabilities.

The solution can be set up in five easy steps:

• Step 1 - Connect Data Stream

Devices connected to various IoT platforms such as SenzMatica, Azure IoT and AWS IoT (Q3 2025) can be integrated with the DevicePulse.AI platform, allowing for streamlined data collection and analysis.

• Step 2 - Define success criteria

Users can define test cases according to their specific needs. Each test case can have a unique main test case with multiple sub-test cases to cover as many success criteria as needed. This flexibility supports and ensures thorough testing of all device functionalities.

• Step 3 - Start monitoring

This step enables users to perform two types of testing; Production Feasibility Testing, and Continuous Testing. For production feasibility testing, users must set a start and end time, and the testing will be conducted within that specified time frame. For continuous testing,





based on defined test cases, users need to schedule a time for report generation and notifications.

• Step 4 - Root cause analysis

The platform leverages AI algorithms to perform root cause analysis of the identified issues. This step provides insights into the underlying causes of defects, enabling more effective troubleshooting and resolution.

• Step 5 - Knowledge Based Configuration

The platform offers real-time conversational notifications about the status of the devices. This feature ensures that users are promptly informed of any issues, allowing for immediate action and resolution to establish this communication, users need to complete the configuration in this step, specifying the analysis name, uploading device-related knowledge, and providing API links to access data from the test devices for creating the required bot.





1.0 How to Subscribe to a DevicePulse.Al Plan on Azure Marketplace

Pre-requisites: If you don't have an Azure account, you need to create an account. To create a free account watch this <u>How to create a free Microsoft Azure Account</u>.

After creating your free account visit <u>https://azuremarketplace.microsoft.com/en-US/</u> (Microsoft Azure Marketplace), where you can see the following page.



Search for *DevicePulse.Al* in the search bar. This will get the following page.





Hicrosoft Azure Marketplace	¶ore ∨	Search Ma	arketplace	Q	More 🗸	∕ ♡ ☺	8
Browse apps Get Started Al + Machine Learning	Trials All V	Operating System	Publisher All V	Pricing Model	Product Type All	Reset filters	
Analytics Blockchain Compute	*						
Containers Databases Developer Tools	DevicePulse.Ai By SenzMate An Al Copilot for IoT Device Maintenance						
DevOps Identity Integration							
Internet of Things IT & Management Tools Media	Get it now						
Microsoft Entra ID Migration Mixed Reality							
Monitoring & Diagnostics Networking https://azuremagatpiace.microsoft.com/en-us/marketplace/apps/s	enzmate.00-111-1911?ta						Ţ

1. Select DevicePulse.AI You will be redirected to our main page as below.



 A popup will then appear as shown below. Enter your name, work email, and country. After agreeing to the terms by ticking the checkbox, click the 'Continue' button.



3. Next, choose the desired plan and click on the 'Subscribe' button.

	,P Search resources, services, and docs (G+/)	🤣 Copilot					kumiudabage@gmail.c DEFAULT DIRECTORY (KUMIUDA
Home > DevicePulse.Ai ☆ … SentMate							×
DevicePulse.Ai Add to Favorites		Looking	for an existing subso	ription to) this prod	luct? Viev	v all your SaaS subscriptions
SenzMate SaaS Plan							
Free V Subscribe							
Basic Overview Plans + Pricing Usage Information + Support Ratings	s + Reviews						
The exciting world of IoT comes with its own set of challenges, particularly when reliability is a critical concern for IoT companies.	it comes to maintaining devices post-deployment. Ensuring long-term functionality and						
DevicePulse AI is here to alleviate these concerns with a platform that continuou capabilities to diagnose and resolve issues efficiently with Maintenance Copilot. Media	usly monitors your IoT network, detects problems and failures devices, uses advanced AI						
Excess constant and a second an	And () () () () () () () () () () () () ()						
							Give feedback

PC: According to the package you have selected the available features may be different. The following table shows the available features for each package separately.





Free	Basic	Premium
Onboarding up to 10 IoT	Onboarding up to 100,000	Onboarding up to 100,000
devices	IoT devices	IoT devices
Setting criteria for failures	Setting criteria for failures	Setting criteria for failures
Getting instant failure	Getting instant failure	Root Cause Analysis /
alerts	alerts	Chatbot access
Accessing failure reports	Accessing failure reports	Getting instant failure
		alerts with root cause
		Accessing failure reports
		including root cause
		analysis
		Feedback Record
		mechanism from the Field
		officer after the solution is
		given

 Then you will see the following screen. Enter a name under 'SaaS Details,' select 'Senzmate' as the Resource Group, and then click on 'Review + Subscribe'.

😑 Microsoft Azure 💽 Upgrade	∠ Search resources, se	rvices, and docs (G+/)	🚱 Copilot 🗵	0	0 Ā	kumiudabage@gmail.c DEFAULT DIRECTORY (KUMIUDA	
Home > DevicePulse.Ai (preview) > Subscribe To DevicePulse Subscribe to plan	e.Ai …					:	×
Project details Select the subscription to manage deployed	subscribing, configure your SaaS account on the publisher's website to complet resources and costs. Use resource groups like folders to organize and manage a				X	Jseful links /iew this product in Marketplace /iew all your SaaS subscriptions	
Resource group * ①							
Name * ① Plan							
	rice - 1-month subscription Perfect for small-scale use or testing purposes, allowing up to 10 devices and 2 sees with access to basic monitoring and alert features. Includes weekly reports experse tup to 10 devices Jeens: Up to 2 users	to				Give feedback	:k 🗸

5. You will be redirected to the next page. Click the **'Subscribe'** button to continue.





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Home >					
Subscribe To DevicePu Subscribe to plan	ulse.Ai				×
*Basics Tags Review + subscrib	e				Useful links
Product + plan details					View this product in Marketplace
DevicePulse.Ai - Free by SenzMate					View all your SaaS subscriptions
Terms of use					
Privacy policy					
Terms of use					
statements associated with each Marke payment method for the fees associate frequency as my Azure subscription, un	the purchase with the provider, I (a) agree to the legal term: tplace offering above, (b) authorize Microsoft to charge or to 4 with my use of the offerings, including applicable taxes, wi till discontinue use of the offerings, (c) agree that Microsoft tails (including usage volume associated with the offering) w	ill my current the same billing may share my			
Contact details					
Name	Kumeshi Udabage				
Email address	kumiudabage@gmail.com				
Primary phone number					
	nfigure your SaaS account on the publisher's website.				Give feedback
	· · · · · · · · · · · · · · · · · · ·				
Subscribe < Pr	evious: Tags Next >				

6. After that, you will be taken to the following page.

	① Upgrade	ices, and docs (G+/)	🧑 Copilot	Þ	ی فِ	@ R	kumiudabage@gmail DEFAULT DIRECTORY (KUMIL	I.C 🙆
Home > Subscribe To De	evicePulse.Ai >							
Subscription p	rogress							\times
···· Your SaaS sub	oscription is in progress							
SaaS resource name:						Usefu	ıl links	
Purchase start time:	Thursday, December 26, 2024 at 10:40:22 AM					Views	our SaaS subscription	
Offer & plan details:	DevicePulse.Ai - Free - 1-month subscription						all your SaaS subscriptions	
 Next steps (availab) 	ale once subscribed)						his product in Marketplace	
Configure SaaS account								
Your purchase will be Configure account nov	e complete once you set up your account on the publisher's website.							
Important to know								
Billing will start after your	account is configured on the publisher's website.							
If no action is taken within	n 30 days, this SaaS subscription will be automatically deleted.							
	Il appear on the SaaS page in the Azure portal. to your favorite services or pin it to the dashboard.							
							Give fee	dback

7. Once the SaaS subscription is successfully activated, the **'Configure Account Now'** button will become available. Click on it to proceed to the next step.





Microsoft Azure 🕑 Upgrade		👩 Copilot 🛛 🖸 🔅	R kumiudabage@gmail.c befault directory (kumiuda
Home > Subscribe To DevicePulse.Ai >			
Subscription progress			×
Almost done! Next, configure your account on the publish	er's website		
SaaS resource name:			Useful links
Purchase start time: Thursday, December 26, 2024 at 10:36:35 AM			View your SaaS subscription
Offer & plan details: DevicePulse.Ai - Free - 1-month subscription			View all your SaaS subscriptions
∧ Next steps			View this product in Marketplace
Configure SaaS account			
Your purchase will be complete once you set up your account on the publisher's website. Check your email for instructions on setting up your SaaS account.			
Clicking on 'Configure account now' will redirect you outside the Azure portal to an independent note that Microsoft is not responsible for the content, privacy policies, or security measures of the			
Configure account now			
Important to know			
Billing will start after your account is configured on the publisher's website.			
If no action is taken within 30 days, this SaaS subscription will be automatically deleted.			
Your SaaS subscription will appear on the SaaS page in the Azure portal. To access it easily, save it to your favorite services or pin it to the dashboard.			
			Give feedback

8. After you successfully select the package you need in the Azure Market Place and configure your account, you will be directly connected to our DevicePulse.AI platform login page.

	2	
Ľ		
	2	

DevicePulse.AI
Username
Username or Email
Password
Password (1)
Remember me
Login
Forgot Password?
🙏 Sign in with Azure

10. There you can click the "**Sign in with Azure**" option, and then you will be taken directly to the "**Setup DevicePulse.Al**" module as follows.



2.0 Connecting devices with DevicePulse.AI

1. As soon as you log in you will see the Get Started Guide. Please do follow this guide as it will provide valuable information when you do want to set up the system. When you are ready, click **"Setup DevicePulse.Al."**

DevicePulse.Al				🤌 Arunn 📎
B Dashboard C Setup DevicePulse.Al S Setup Summary	Setup Device Pulse	<i>"</i>	50ep 02	್
Failure Analytics System History User Settings AutoML	Connect Data Stream Start by connecting to the IoT Platform and initiating the data s	tream Get Stortad⇒	Define Success Criteria Define the test cases to validate the device data	Get Started →
	Step 03 Start Monitoring Initiating the process of testing devices	Learn about the DevicePulse.AI Welcome to the DevicePulse DevicePulse.AI helps yo analyze, and optimize device performance with Ar-di rollow these steps to set up and manage your device two TMA	riven insights. Unalysis esefficiently oot cause of device failures	Get Started→
	Etep 05 Knowledge based Configuration Explaining failure reasons in a human-understandable way	Get Borted 9	Step 08 ITSM Configuration Setting up Jira Integration for task creation based on device failures	Get Started >





2. Then the following page will appear. Click the **Get Started** button in step 1. (Important: To connect with Device Pulse.AI and test your devices, ensure that they are onboarded already to either our SenzMatica platform or the Azure IoT platform.)

DevicePulse.Al	•		🖉 akash 🖂
B Dashboard		Setup Device Pulse	
Setup DevicePulse.Al Setup Summary	,	Step 01 🤹 Step 02	¢
 Failure Analytics System History User Settings 	>	Connect Data Stream Start by connecting to the IoT Platform and initiating the data stream Define Success Criteria Define the test cases to validate the device data Cest Started 9	Get Started →
		5tep 03	
		Start Monitoring Root Cause Analysis Analysis Analysis Analysis Analysis Analysis Analysis Root Cause of device follows	Get Started →
		Step 05 Step 05 Knowledge based Configuration Step 06 Biplaining failure reasons in a human-understandable way ITSM Configuration Get storted 3 Step 06	det Started →

2.1 Connecting through SenzMatica

Pre-requisites: Make sure to onboard your devices to the SenzMatica platform first if you wish to use the SenzMatica data streaming option. To onboard devices to SenzMatica refer to this document. <u>Onboarding devices to the SenzMatica platform</u>

If your devices are connected to SenzMatica then follow the below steps.

1. Click the "Get started" button in the SenzMatica option.





SenzMatica		Hiruna 📀
	Step-01 Connect Data Stream	
Senzmatica Lorem ipsum dolor sit ameti consectetur. Alquet sit vitae id parturient tortor. Cursus amet lectus elit tellus scelerisque ipsum orci.	Azure loT Lorem ipsum dolor sit amet consectetur. Aliquet sit vitae id parturient tortor. Cursus amet lectus elit tellus scelerisque ipsum arcl.	AWS IoT Coming Soon Out Started
	Rest API Lorem ipsum dolor sit armet consectetur. Aliquet sit vitae id parturient tortor. Cursus armet lectus elit telius scelerisque ipsum arc. Over titarted	
		BACK

2. It will appear as follows, with three sub-steps. Enter the Base URL, Batch number (In the SenzMatica platform, devices are assigned to a specific batch), and API key/token associated with the SenzMatica platform where testing devices are connected.

Step-01 SenzMatica O O Connect Devices Select Test Devices Data Preview Enter Base URL* Enter Base URL Here Enter Base URL Her
01 02 03 Connect Devices Select Test Devices Data Preview Base URL* Enter Base LRL Here
Connect Devices Select Test Data Preview Devices Base URL* Enter Base URL Here
Frider Britten blin Listen
Batch NO."
API Key/Token :* Enter API Key Here
BACK CONNECT
BACK CONNECT

3. If all the entered details are correct, then in sub-step 2, all the devices under the previously defined batch will be listed.





SenzMatica			Super Admin 🌚
		510p-01	
		SenzMatica	
		Connect Devices Data Preview	
	New Batch: *	304	
		Device D	
		5A880MP0004	
		SABBOMPOOR	
		\$M880MP0002	
		\$A880MP0005	
		\$A880MP0007	
		\$A880MP0008	
		SABBOMPOOD	
		SABOMPOOI	
		SA880MP0012	
		SABBAMPOG	
		How N C	

4. You can select the devices you wish to test and rename them with a new batch number to identify that specific set. This batch number will be used in all subsequent steps to reference the selected devices.

SentMatica			SenzMatica			Super Adm	in 🕑
			Senzmatica				1
		Connect Devices	O2 Select Test Devices	Data Preview			
	New Batch: *	2041					
				Device ID			
				SAB80MP0004			
				SABBOMPOOOI			
				SAB80MP0002			
				SABBOMP0005			
				SAB80MP0007			
				SABBOMP0008			
				SABBOMP0010			
				SAB90MP0011			
				SABB0MP0012			
				SABB0MP0013			
				1-10 of 16 < >			
					BLCK SURMIT		Ţ

5. After submission, sub-step 3 will display the latest data for the selected devices, indicating that your test devices have successfully connected to the Device Pulse.AI platform.





SenzMatica				Super Admin 👻
			Step-01	
			SenzMatica	
		Connect Devices	Select Test Devices	
				O REFRESH
	Time	Device ID	Data Preview	
	2024-09-13 17:20:47	SAB80MP0001	0-CS:0;1-CT:66;2-SS:16;3-B:325	
		SAB80MP0004		
			1-2 of 2 < >	
				BACK DONE

2.2 Connecting through the Azure IoT platform

If your devices are connected to Azure IoT then follow the below steps.

1. Click the "Get Started" button in the Azure IoT option.

sep-di Content Data Straum Senzencine Merrisen der einer dorse keiner Auflicher sit wirben ist portunient torits. Carsus annel lecture eil teilens scientingen gizunen och Merrisen	SenzMatica		Hiruna
Senzencica Azure IoT Awy IoT Were figuum odor ist omat conscrictur. Alguet ist titles is potruisent torts. Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cursus amet lectus eit tellus scelerisque jopum orci. Image: Cur			
Lorem ipsum dolor sit amet consectetur. Aliquet sit vitoe id parturient totor. Cursus amet lectue elit telius soeleringue josum orci. Ger stamet Cursus amet lectue elit telius soeleringue josum orci. Ger stamet		Connect Data stream	
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		Lorem ipsum dolor sit amet consectetur. Aliquet sit vitae id parturient tortor. Cursus amet lectus elit tellus scelerisque ipsum orci.	
			BACK





2. It will show the screen as below with four sub-steps. In the first sub-step you need to enter the IoT hub connection string and API version where your testing devices are connected in Azure. Then click the **"Connect"** button.

-	
•)	
ר.	
J	

SenzMatica			Super Admin 😒
		Step-01	
		Azure IoT	
	O) Connect Devices	O2 O3 O4 Select Test Get Device Data Preview Devices Data	
	IoT Hub Connection String:*	Enter IoT Hub Connection String Here	
	Api Version:*	Enter Api Version	
ι		BACK DISCONNECT CONNECT	

- 4. In sub-step 2 you need to select the exact test devices you are going to test through DevicePulse.AI. Enter a unique number for the test batch to identify the testing devices. Importantly here you should select a script file that is already created earlier or you need to upload a script file here including all the details of the test device category such as interval, persistence, sensors, actuators and connectivity protocol.
- 5. (Important: When creating a script file both class name and file name should be the same. The method should be "Convert". The parameters passing to the method should be "Object". Only the java.util library can be used. No outside libraries can be used.)





SenzMatica				
	01 - Connect Devices	Select Test Devices	Get Device Data Preview	
	Batch: *			
	Device Transcoding:*	Select Codec Method	Create Codec	
			~	
		Device ID		

6. Then click the **"Submit"** button there and it will navigate to the sub-step 3(Get Device Data). It will appear as below. You need to choose the custom endpoint option.

(Important: When creating a script file both class name and file name should be the same. The method should be **"Convert"**. The parameters passing to the method should be **"Object"**. Only the java.util library can be used. No outside libraries can be used.)

7. We are using Cosmos DB for now; enter the URL, primary key, database name, and container name and again select a codec file which was created earlier or create a new codec to change the data format of the devices.





01	02	(03)	04
Connect Devices	Select Test Devices	Get Device Data	Data Preview
Custom Endpoint Option:*	Cosmos DB		~
URL:*	Enter URL Here		
Primary Key:*	Enter Primary Key Here		
Database Name:*	Enter Database Name Here		
Container Name:*	Enter Container Name Here		
Data Transcoding:*	Select Codec Method		Create Codec
	Select Codec		~

8. Click the **"Connect"** button thereafter adding the above details. If those details are correct, it will show the latest data of the selected devices as below.

SenzMatica							
			—		O3	(04)	
			Connect Devices	Select Test Devices	Get Device Data	Data Preview	
							O REFRESH
	Time	Entity ID	Data Preview				
	2024-09-13 01:25:19						
	2024-09-13 01:25:36						
					1-2 of 2 <	>	





3.0 Defining Test cases and success criteria

Testing areas will vary depending on your device categories. Our platform allows you to create fully customizable test cases with success criteria tailored to your devices. Follow the steps below.

DevicePulse.Al		👰 akash 📀
B Dashboard	Setup Device Pulse	
Setup DevicePulse.Al Setup Summary	Step 01 Step 02	ග ී
Setup summary Fallure Analytics System History User Settings C AutoML		Success Criteria e test cases to validate the device data
	-	suse Analysis githe root cause of device failures (Ret Started.)
		onfiguration p Jira Integration for task creation based on device failures Cet Started 9

1. Click the "Get started" button in step 2(Define success criteria).

2. You will then see the following overview.

DEMAND GENER				Ç ∰_SENZMATE
DevicePulse.Al	•			👰 akash 🌚
88 Dashboard		← Define Test Case Crite	eria - Step 02	
Setup DevicePulse.Al Setup Summary	,	Data Streaming Method*	Test Batch*	Main Test Case Name*
Failure Analytics System History				+ Add New Sub Test Case
ن System History ب User Settings ش AutoML	› ›	Sub Test Case* Enter Sub Test Case Nome Here	Parameter* Select Parameter	Success Criterio*
		Description Enter Description Here		
		Add Another Test Case		BACK Bubmit

3. Select the data streaming method and the batch to which the testing devices belong. Next, define a main test case and any sub-test cases that fall under it. Multiple sub-test cases can be created under a single main test case. For example, if you need to test the battery and temperature of 'Category A' devices, you can create the main test case as 'Category A devices' and sub-test cases like 'Battery measurement' and 'Temperature measurement.' For each sub-test case, select the parameter where the device passes the value and define the success criteria.

(Important: Under success criteria you can select any according to the devices and test cases.)

4.0 Start Monitoring

To begin testing or monitoring the performance of your devices, proceed with step 3.

DEMAND GENERATION		SENZMATE
DovicePulse.AI Control DovicePulse.AI Setup DovicePulse.AI Setup Surmary Failure Analytics System History Juser Setting Autobal Autobal	Setup Device Pulse Step 0 Connect Data Stream Start by connecting to the IoT Platform and Initiating the data stream Cont Stored 2 Context Data Stream Cont Stored 2 Context Data Stream Cont Stored 2 Context Data Stream Cont Stored 2 Context Data Stream Contex	ekosh <table-cell></table-cell>
	Step 03 Step 04 Start Monitoring Root Cause of testing devices Initiating the process of testing devices Root Cause of device failures Get Started Step 05 Knowledge based Configuration Step 06 Epidening failure reasons in a human-understandable way Step 05 Get Started 3 Step 06	Get Stated-> device failures Get Stated->

The DevicePulse.Al platform supports two types of testing: **Production Feasibility Testing** and **Continuous Testing**.

4.1 Production Feasibility Testing

Production feasibility testing refers to the testing process conducted over a specified period during the production phase, typically before deploying the devices. To perform production feasibility testing, follow these steps

1. After clicking the "Get started" button, you will see the following page.



 Select the data streaming method, test batch, main test case, and sub-test cases defined in the previous steps. You can choose multiple sub-test cases simultaneously. Then, under the testing method, select "Production Feasibility Testing."

DevicePulse.AI	•					<u></u>	akash 🕑
器 Dashboard		← Start Monitoring -	Step 03				
Setup DevicePulse.Al		Data Streaming Method *	Test Batch*		Main Test Case Name*		
Setup Summary	>	-Select-	► Select-		✓ -Select-		~
S Failure Analytics							
System History	>	Sub Test Case Name*		~	-Select-		
⊥ User Settings		"Select"		~	Production Feasibility Testing		
AutoML	,				Continuous Testing		
•				_			

3. Next, enter the start time and end time for the period during which you want to test your devices

`
、 、
Start

4. Then, for the selected sub-test cases and devices, you will see the defined parameter ranges.

DevicePulse.AI		👂 akash 🕑
品 Dashboard	← Start Monitoring - Step 03	
Setup DevicePulse.Al	Dota Streaming Method * Test Batch* Main	n Test Case Name*
Setup Summary	· · · · · · · · · · · · · · · · · · ·	~
등 Failure Analytics ③ System History >	Sub Test Case Name* Testing Method* Production Feasibility Testing	~
ب User Settings		
AutoML Aut	Stort Time * 04/30/2025 05:19 PM	
	End Time • 04/30/2025 🔲 05:19 PM 🔘	
	Device Id	Battery Level

4.2 Continuous Testing

Continuous testing refers to an ongoing testing process where users receive reports and notifications at scheduled intervals. This type of testing is typically performed after devices have been deployed and are active to ensure they function correctly over time. To conduct continuous testing, follow these steps.





1. After clicking the "Get started" button, you will see the following page.

DevicePulse.Al	•					1	🧕 akash 🖂
8 Dashboard	← Start Monitori	ng - Step 03					
Setup DevicePulse.Al	Data Streaming Method *		Test Batch*		Main Test Case Name*		
Setup Summary	> -Select-		-Select-	~	-Select-		~
Failure Analytics System History	Sub Test Case Name*			Testing Method*			
). User Settings	-Select-		~	-Select-		BACK	Start
AutoML	>					BACK	start

2. Select the data streaming method, test batch, main test case, and sub-test cases defined in the previous steps. You can choose multiple sub-test cases simultaneously. Then, under the Testing Method, select **'Continuous testing.'**

DevicePulse.Al	<				遵 akash 🖂
器 Dashboard		← Start Monitoring - S	step 03		
Setup DevicePulse.Al		Data Streaming Method *	Test Batch*	Main Test Case Name*	
Setup Summary	,	-Select-	✓ Select-	✓ Select-	~
S Failure Analytics					
3 System History	,	Sub Test Case Name*		Testing Method*	^
ப் User Settings				Production Feasibility Testing	
AutoML	,			Continuous Testing	
4					

3. Next, enter the repeat interval to determine the duration during which you want to test your devices and send failure alerts.





	DevicePulse.AI	<					Ę	akash 🕑
88	Dashboard		← Start Monitoring - Step	03				
Q	Setup DevicePulse.Al		Data Streaming Method *	Test Batch*		Main Test Case Name*		
٢	Setup Summary	,	-Select-	-Select-		✓ Select-		~
ຄ	Failure Analytics							
3	System History	>	Sub Test Case Name*	~	Testing Method* Continuous Testing			~
Û	User Settings							
٥	AutoML	>	Alert Schedule					
			Repeat Every *					
			Enter Duration		C -Select-		~	
							ВАСК	011-11
							BACK	Start

4. Then, for the selected sub-test cases and devices, you will see the defined parameter ranges.

DevicePulse.AI	<				🦉 akash 🖂
器 Dashboard		← Start Monitoring - St	ep 03		
 Setup DevicePulse.Al Setup Summary 	,	Data Streaming Method *	Test Batch*	Main Test Case Name*	
Failure Analytics	,	Sub Test Case Name*	~	ting Method*	~
 System History User Settings 	>			ung wetnoo-	~
AutoML	`	Alert Schedule			
		Repeat Every •	:	-Select-	~
		Device Id		Battery Level	
					-





5.0 Root Cause Analysis

If you need to find out and get notified about the root cause of the failure, proceed with step 04.

DevicePulse.AI <		👰 akash 🖂
88 Dashboard	Setup Device Pulse	
 Setup DevicePulse.Al Setup Summary 	Step 01 Step 02	್
Devices Batches Failure Diognosis Root Cause Models	Connect Data Stream Define Success Criteria Start by connecting to the IoT Platform and initiating the data stream Define the test cases to validate the device data	Get Storted →
 Knowledge Based Uploads Follure Analytics System History User Settings AutoML 	Step 03 Step 04 Start Monitoring Root Cause Analysis Initiating the process of testing devices Analysing the root cause of device failures	Get Started ->
	Step 05 Step 06 Knowledge based Configuration ITSM Configuration Explaining failure reasons in a human-understandable way Stet 100 Get Started \Rightarrow Its and the started \Rightarrow	Get Started→

 After clicking the "Get Started" button, you will navigate to the following page. Select the test batch that includes the devices for which you want to identify root causes. Under the Main test case drop-down, all the main test cases will be displayed related to the selected test batch. Choose one of them for which you want to identify the root causes and click "Next."



NEED PIPE	COM	
DEMAND GENERATION		

DevicePulse.Al	0					🔎 akash 😔
88 Dashboard	← Root Cause Analysis	s - Step 04				
Setup DevicePulse.Al			\bigcirc	\bigcirc		
	>		01	02		
Failure Analytics			Define Issue Type	Define Model		
 System History User Settings 	>	Test Batch*				
	>	Select a Test Batch			~	
		Main Test Case*				
		Select Main Test Case			~	
					•	
				CANCEL Noxt		

2. Clicking "**Next**," will take you to this page. This is where you can either build a new model or assign an existing model to a batch to detect the root cause for a failure. If you don't have a trained model, you can choose "**Build New Model**" option.

DevicePulse.Al				🔎 akash 😔
88 Dashboard	← Root Cause Analysis - Step 04			
C Setup DevicePulse.Al		(0)	02	
 Setup Summary Failure Analytics 		Define issue Type	Define Model	
System History				
다. User Settings				
AutoML >				
		8		
		Build New Model	Select a Model	
			BACK	
			(IACK	

3. Then you will be navigated to the page below, where you can train the AI model, a process that contains a number of steps. Note: To train the model





you should have the relevant domain knowledge and be familiar with the process of training an ML model.

B Databoard Step 01 Step 02 Step 03 Step 04 Step Under Turing Step 04 C Step 04 Preject Indiation Preject Indiation Moder Turing Moder	
	aving
System Hatory Project Details Data typicod Q User settings	
AutoM. Project Name Version In Model Builder Inter project name Enter project name select a version	*
Nodel Hue Problem Type Type Select Problem Type	•
Cancel	Nex

4. After you have trained the model, choose "Select a Model" option. You will see the page below. Under the Model dropdown, you will see listed all the trained models. You can select the model that is suitable and trained for your selected test batch and main test case. Click Run set activate the monitoring and testing. When failures are discovered on the assigned test batch devices, the Root Cause analysis will identify what is causing the problem and send out the relevant notifications automatically.





DevicePulse.AI	¢						<u>,</u>	akash 😔
B Dashboard		← Root Cause Analysis	- Step 04					
Setup DevicePulse.Al				\bigcirc	\frown			
😂 Setup Summary	,			01	O2			
Failure Analytics				Define Issue Type	Define Model			
System History	>							
Q User Settings			Model*			~		
AutoML	>							
					BACK	Run		





6.0 Al Navigator

To use the AI Navigator to chat and explore possible solutions for the device failures, proceed with step 5.

DevicePulse.AI 🔇		🚑 akash 🥪
88 Dashboard	Setup Device Pulse	
Setup DevicePulse.Al	Step 01	Step 02
Devices Botches Foliure Diagnosis Root Cause Models	Connect Data Stream Start by connecting to the IoT Platform and initiating the data stream Get Started ->	Define Success Criteria Define the test cases to validate the device data Qet Started ->
Knowledge Based Uploads Failure Analytics System History	Step 03	Step 04 Root Cause Analysis
다 User Settings ④ AutoML >	initiating the process of testing devices $\label{eq:constraint} \mbox{Qet Started} \rightarrow$	Analysing the root cause of device foilures Qet Started →
	Step 05	Step 06
	Knowledge based Configuration Explaining failure reasons in a human-understandable way	ITSM Configuration Setting up Jira integration for task creation based on device failures
	Get Started→	Get Started →

 After selecting the Get Started button, you will navigate to the following screen: Select the test batch that includes the devices for which you want to explore solutions and more about failures, give any name for Project Name under Project Configuration section, click Submit.

DevicePulse.			٥	akash 😔
Dashboard		← Knowledge Based Configurations - Step 05		
Setup DevicePulse.Al				
Setup Summary	,	Project Configurations Enhancing Eased Upsicate 6.471 Configurations		
S Failure Analytics		Test Batch *		
System History	,		~	
다. User Settings		Project Name *		
AutoML	,	Ender Project Narea Nera		
		CANCEL SUBMIT		





- 2. It will move on to **Knowledge Base Uploads** section. The knowledge base uploads can be carried out in 2 ways:
- API upload Knowledge can be uploaded through known and published APIs (*This feature will be available in the future*)
- File upload Files can be uploaded as PDFs

DevicePulse.Al	<		۹	akash 🐱
B Dashboard		← Knowledge Based Configurations - Step 05		
Setup DevicePulse.Al		Configurations Knowledge Based Sploads & API Configurations		
😂 Setup Summary	•	regectioning/adapting		
S Failure Analytics		APT Upload File Upload		
	•			
다. User Settings		O Upload a JSCN like with AR specifications, we accept open AR specification. For each AR include clear and concise description for query parameters and response.		
AutoML	`	Json File		
		Upload json file here (in uncode		
		SKIP BACK SAVE		

6.1 API Upload

This is where you can upload knowledge for the AI Navigator using APIs. Providing this knowledge is essential for the AI Navigator to effectively answer user queries.





Device	Pulse.Al	¢	e •	ıkash 😔
B Dashboard	Pulse.Al		← Knowledge Based Configurations - Step 05 Image: Configuration of the step 05	
😂 Setup Summ	nary	,	Project Configurations Encoded plocads & API Configurations	
 Failure Analy System Histor 		,	API Upload File Upload	
ධ User Settings			D upload a stort file with AM specifications, we accept open AM specification. For each AP include clear and concise description for query parameters and response.	
B AutoM		>	Joon File Upbood joon file here SOF BACK SAVE	

APIs can be uploaded through JSON files.

- Click **Upload** button.
- The file window will appear, and you can navigate to and select the exact JSON file .
- 1. After selecting the JSON file, click on **ADD.**

	DevicePulse.Al	<	<u>e</u>	akash 😔
88	Dashboard		← Knowledge Based Configurations - Step 05	
Q	Setup DevicePulse.Al			
8	Setup Summary	,	Project Carifyrations Providing Based Spaces A Carifyrations	
2	Failure Analytics		API tyshood File Uplood	
10	System History	,	and group	
Ą	User Settings		O Upload a JOM Ne with AN specifications, we accept open AN specification. For each AN include clear and concise description for query parameters and response.	
0	AutoML	,	Json File	
			spothy-openapi_lison	
			SKIP BACK SAVE	





2. The relevant APIs will be displayed as below. You can now select the APIs you want and after API key/token is added, click **SAVE.** This will allow the AI Navigator to search for and find answers for any product questions using those APIs.

DevicePulse.Al	<						Ę	akash 😔
B Dashboard Setup DevicePulse.Al Setup Summary	,	← Knowledge Based Configur	ations - Step 05		(02) Knowledge Based Uploads & API Configurations			
 Failure Analytics System History User Settings AutoML 	› ›	API Upload Repotly-openapi_Tijkon Search		٩			₿ ^ (
		Path C	escription		Bore URL	Authentication Token Select a token BACK BACK	SAVE	

3. To delete any of the uploaded JSON file, click the "Delete" icon.

DevicePulse.AI		٩	akash 😔
B Dashboard □ Setup DevicePulse.Al ☺ Setup Summary	Knowledge Based Configurations - Step 05	elete	
 System History → User Settings 	API Upload File Upload		
(i) AutoML >	Search Q_ Path Description Base UR. Authentication Token		
	Select a biten	•	
	SKP BACK SAV	E	





6.2 File Upload

This capability allows you to upload knowledge for the AI Navigator in the form of PDF files. Supplying this information is essential for the AI Navigator to accurately respond to user queries.

1. To upload PDF files, Choose the "**File Upload**" tab. Then you click on or drag the necessary files to the upload area.

DevicePulse.AI (æ	akash 😔
88 Dashboard G Setup DevicePulse.Al	Knowledge Based Configurations - Step 05	
Setup Summary Failure Analytics System History User Settings	AT Upload	
∰ AutoML >	Click or atrog file to the avera to upload modifirmum upload file size : Skiels	
	BACK DONE	

2. Uploaded file/s will be displayed as shown below. To proceed click on the "SAVE ALL" button. To rename the file-name click the pen icon to edit. To delete the uploaded file you can click the "Delete" icon and if you need to upload more files you can click on "Attach Files" button and choose more files from your PC.





DevicePulse.Al	👰 akash 😡
88 Dashboard	← Knowledge Based Configurations - Step 05
Setup DevicePulse.Al	Image: Configurations Image: Configurations Upload more files
Setup Summary >	
Failure Analytics	APT Upload Pietpload Delete
System History	
User Settings AutoML	AttochFiles
g Automic /	
	0.39 MB

7.0 Dashboard

As soon as you start monitoring your devices, you will see a detailed dashboard as below.

DevicePulse.Al			🔎 akash 😔
20 Dashboard	Dashboard		
Setup DevicePulse.Al	Post Deployment Stage Pre Deployment Stage		Lost 24hrs 🛛 🖓 Botch Filter
Setup Summary >			
Failure Analytics	Device Summary ①		with Test Follures Devices with Root Couse Identified
S System History > Q User Settings AutoML >	365 Registered Devices	63 / 234	3/63
	Under Diognosis 234 / 365 331 / 365		
	Event Summary 0	Root Cause Analytics O	Recommended Bolutions
	Moin Test Coses Applied Sub Test Coses Applied 49	B 3	Total Solution Provided Via Chat 01
	9 (1237k) 7 (8.89k) . 9 (6.89k) . 5 (6.89k) . 8 (6.49k) . . .	(mor Ca. , 3 (75.005) , (105.005) ,	(#)





Device Summary - This section provides a 24-hour summary of device diagnostics. It starts with the total onboarded devices, showing how many are under diagnosis and how many are not. It then breaks down diagnosed devices into devices with test failures, highlights diagnosed devices with identified root causes and finally, shows how many devices are under troubleshooting.

Event Summary - This section provides a 24-hour overview of detected issues, showing the total number of identified issues (each failed test case is counted as a separate issue, even if the same device fails multiple test cases) and the count of applied main and sub test cases. It highlights the top four failed main test cases by percentage, while all others are grouped under 'Others' for clarity. Clicking on a failed test case reveals a list of affected devices.

Root cause analytics - This section provides a 24-hour overview of identified root causes for failures, showing the total number of identified root causes (note: each detected root cause is counted as a separate root cause, even if the same device detect multiple root causes) and the count of root cause models applied. It highlights the top four detected root causes by percentage, while all others are grouped under 'Others' for clarity. Clicking on a detected root cause reveals a list of affected devices.

Recommended solutions - This section provides a 24-hour overview of the number of ongoing chats for troubleshooting failures, along with the count of chats that successfully delivered an exact solution.

7.1 Failure Alerts (Notifications)

When any device failure is identified by the system, it will display under the notification section. Click on the Notification icon as shown below.




Then it will display as below.

DEMAND GENERATION

DevicePulse.AI			🔔 akash 😒 💧
8 Dashboard	Dashboard		Notification ×
Setup DevicePulse.Al Setup Summary	Post Deployment Stage Pre Deployment Stage		The [
 Failure Analytics System History 	Device Summary ①		Working Condition failure . 2025-05-09 225546 Beed a Help?
A User Settings	365 Registered Devices	Devices with Test 63 / 234 Under Troublesho 1 / 3	The Batch:
	Under Diagnosis Not Under Diagnosis 234 / 365 131 / 365		2025-05-09 22 50:37
			The Isourcean (Batch: 505_Del_Apo_Maid) encountered an Working Condition failure .
	Event Summary ①	A Root Cause Analytics ①	Recommended Solutions
	73 Nation Scientified	4 A Not Cruster Identified	3 Al Crois
	Main Test Cases Applied Sub Test Cases Applied	Root Cause Models Applied	

If the set of devices is assigned for failure monitoring only, it will send the failure alerts as follows.





Alert Structure: "This [Device ID] [Batch number] encountered a [Failed main test case name] failure."

But if the set of devices is assigned for failure monitoring as well as root cause analysis, then it will send the failure alerts as follows.

Alert Structure: "This [Device ID] [Batch number] encountered a [Failed main test case name] failure due to this [Root cause for the failure] issue."

8.0 Devices

1. To oversee all onboarded devices, navigate to the **Devices** module in the left sidebar under **Setup Summary**.

DevicePulse.AI		🚑 akash 😒
	Setup Device Pulse Step 0 Connect Data Stream Start by connecting to the IoT Platform and initiating the data stream Cett Storted 4	Step 02 Content of the device data
Rnowledge Based Uploads □ Follure Analytics System History > Q User Settings () AutoML	Step 03	Step 04 Root Cause Analysis Analysing the root cause of device failures Cet Started ->
	Step 05 Knowledge based Configuration Explaining failure reasons in a human-understandable way Cet Started)	Step 06 ITSM Configuration Setting up Jira integration for task creation based on device failures Cet Started→

2. There, all the devices that are onboarded to the DevicePulse.Al platform will be listed with the batch name, onboarded time, last seen, and delete option under actions. If you wish to delete any device, you can click the corresponding **Delete** icon.

DEMAND GENERATION					Ç ₩ SI	ENZMATE
DevicePulse.AI						🖉 akash 😔
88 Dashboard	Devices					
Setup DevicePulse.Al	Devices					Create Batch
😂 Setup Summary 🗸	U V Devices					Credite Bulton
Devices						
Botches	Search	Q Filter			1-	-10 of 365 < >
Failure Diagnosis	Device		Batch Name	Last Onboarded Time	Last Seen	Action
Root Cause Models						Û
Knowledge Based Uploads						
S Failure Analytics						۵
System History >						Û
						•
AutoML >						•
						Ē
						۵
						۵
						•
						÷

3. To create a new batch with devices that are not yet assigned to any batch, click the **Create Batch** button.

DevicePulse.Al <		🔎 akash 🖂
88 Dashboard	Devices	
C Setup DevicePulse.Al	♀ ≯ ♀ Devices	Create Batch
😂 Setup Summary 🗸 🗸		[*3 <u>r</u>
Devices	Search Q V Filter	\checkmark
B Batches	and the second s	1-10 of 365 < >
Failure Diagnosis	Device Batch Name Last Onboarded Time Last Seen	Action
Root Cause Models		Ū.
Knowledge Based Uploads		
S Failure Analytics		Û
System History		a
Д User Settings		Đ
AutoML >		e
		Đ
		Û
		Đ
		tion and the second sec
		Đ

4. Upon clicking, a list of all unassigned devices will be displayed, as shown below. You can then select the desired devices, assign a unique batch ID, and proceed to create the batch.

SenzMatica 🔇		Create Batch ×	akash
Setup SenzMatica	Devices		
Dashboard	💭 🕽 📮 Devices	Test Batch: *	Create Batch
Devices	w , c contes	Entity ID Last Seen	
Product Types			
Kit			1-10 of 365 < >
Kit Model	Device		Last Seen Action
Remote Manager			÷
OTA Manager			
Device Connectivity			Û
Transcoding			â
			â
			ê

9.0 Batches

NEED PIPE

1. To oversee all the batches, click the **Batches** module in the left sidebar under **Setup Summary**.

DevicePulse.Al		🧟 akash 🖂
멾 Dashboard	Setup Device Pulse	
Setup DevicePulse.Al	Step 01 Step 02	්
Devices Botches Failure Diagnosis Root Cause Models	Connect Data Stream Define Success Criteria Start by connecting to the IoT Platform and initiating the data stream Define the test cases to validate the device data	Get Storted →
Knowledge Bosed Uploads Follure Analytics System History User Settings AutoML	Step 03 Image: Step 04 Start Monitoring Root Cause Analysis Initiating the process of testing devices Analysing the root cause of device failures	Get Started→
	Step 05 Step 06 Knowledge based Configuration ITSM Configuration Explaining failure reasons in a human-understandable way Setting up Jira integration for task creation based on device failures	Get Storted⇒

2. All the batches you've created will be displayed as shown below. To delete a specific batch, simply click the corresponding **Delete** button.

SENZMATE

DEMAND GENERATIO		SENZMATE
DevicePulse.AI		📮 akash 🕑
88 Dashboard	Batches	
Setup DevicePulse.Al Setup Summary	© 3 El fatznes	
Devices	Search Q V Filter	
Batches Failure Diagnosis	Batch ID	Action
Root Cause Models Knowledge Based Uploads		8 ×
Failure Analytics		8 ×
System History > Report History		8 ×
Q User Settings		B ~
AutoML >		0 ~
		© •
		:::::::::::::::::::::::::::::::::::::
		â ~
		8 ×
		8 ~

3. To view the devices in a batch, click the dropdown icon below the respective batch. All associated devices will then be displayed, as shown below.

DevicePulse.Al <		Ļ	akash 🕹	i
28 Dashboard	Batches			
Setup DevicePulse.Al	C) E totohn			
Setup Summary +	 3.81 vectors 			
Devices				
Batches	Search Q V Filter			
Failure Diagnosis	Botch ID	Action		
(a Root Cause Models		÷	~	
Knowledge Based Uploads				
Failure Analytics		8	Ť	
System History		8	^	
Report History		ADI	DDEVICES	
Q User Settings	Available Devices Action			
@ AutoML >	8			
	8			
	•			
	•			
		Û	Ý	
		8	~	
		8	~	

4. To add devices to a specific batch, click the **Add Device** option below it. A list of unassigned devices will appear, allowing you to select one or multiple devices to add to the batch.





DevicePulse.Al		1	🗘 akash 🖂	î
S Dashboard	Batches			
Setup DevicePulse.Al	C) E Botches			1
😂 Setup Summary 🗸 🗸				1
Devices	Search Q V Filter			1
Batches	Search Q, V Filter			
Failure Diagnosis	Batch ID	Action		
(B Root Cause Models		8	~	
Knowledge Based Uploads		•	~	
Failure Analytics			·	
System History		•	^	
Report History			ADD DEVICES	
Q User Settings	Available Davices Action	N35	A	1
AutoML >	8	\bigcirc		
	8			
	8			
		•	~	
		8	~	
			~	

10.0 Failure Diagnosis

1. To oversee all the test cases that are defined, click the **Failure Diagnosis** module in the left sidebar under **Setup Summary**.

DevicePulse.AI <		🚇 akash 🍥
88 Dashboard	Setup Device Pulse	
Setup DevicePulse.Al Setup Summary	Step 01	Step 02
Devices Batches Fallure Diagnosis, Root Cause Models	Connect Data Stream Start by connecting to the IoT Platform and initiating the data stream Get Started ->	Define Success Criteria Define the test cases to validate the device data Get Storted->
Knowledge Based Uploads Follure Analytics System History User Settings AutoML	Step 03	Step 04 Root Cause Analysis Analysing the root cause of device failures Oet Storted-9
	Step 05 Knowledge based Configuration Explaining failure reasons in a human-understandable way Get Started +	Step 06 FISM Configuration Setting up Jira Integration for task creation based on device failures Get Started 3





2. All the main test cases already defined for each batch will be displayed as shown below. You can filter the test cases for each batch using the dropdown at the top .(PC: By default, test cases for the most recently created batch will be shown when you click on the **Failure Diagnosis** module.)

DevicePulse.Al				Ĺ	🗎 akash 😔
88 Dashboard	Failure Diagnosis				
G Setup DevicePulse.Al	O > W Test Coses	Batch*:	66		~
Setup Summary V					
Devices Batches	Test Case Description			Action	
Failure Diagnosis		+	0	Ø	i ~
Root Cause Models		+	0	ß	i v
Knowledge Based Uploads Failure Analytics					i v
System History →					
ф User Settings		T	•	e	· ·
AutoML >					

3. To view all related subtest cases for each main test case, click the dropdown icon beneath the respective main test case.

DevicePulse.Al 🤇					Ō, ¢	akash 🖂
88 Dashboard	Failure Diagnosis					
Setup DevicePulse.Al	Q > Ⅲ Test Coses	Batch	n*: 66			~
😂 Setup Summary 👻						
Devices Batches	Test Case Description			Action		
Fallure Diagnosis		+	0	ď	8	^
B Root Cause Models	AC Energy				o e t	
Knowledge Based Uploads	Modubus Status				• E 1	
Failure Analytics System History		+	۲	Ľ		~
 System History User Settings 						
AutoML >		+	۲	C	Û	~
		+	۲	Ľ	Û	~





4. For each test case, you can view or edit its details by clicking the respective icons. To add a subtest case under a main test case, click the **Add** icon. To delete a main test case, use the **Delete** icon next to it. Similarly, to view, edit, and delete a subtest case, click the corresponding icons next to that specific subtest case.

DevicePulse.Al					ب ako	ash 🗸
88 Dashboard	Failure Diagnosis					
Setup DevicePulse.Al	© > Ⅲ Test Coses		Batch*: 66			~
😂 Setup Summary 🗸 🗸		Add	View		Delete	
Devices Batches	Test Case Description	<u> </u>		Action		
Failure Diagnosis			+	C	8	^
Root Cause Models	AC Energy	_		7	• 2 6	
Knowledge Based Uploads Failure Analytics	Modubus Status		Edit		o e 🖻	
 System History 			+ ©	e	Ø	v
다. User Settings			+ ③	C	Ð	~
AutoML >		_	+ ©	Ľ	Ð	v
					8	·
1						





11.0 Root Cause Models

1. To oversee all the root cause models, click the **Root Cause Models** module in the left sidebar under **Setup Summary**.

DevicePulse.Al				🧟 akash 🖂
88 Dashboard	Setup Device Pulse			
Setup DevicePulse.Al	Step 01	्रमूट Step 02	2	¢
Devices Batches	Connect Data Stream Start by connecting to the IoT Platform and initiating the data stream		ine Success Criteria ne the test cases to validate the device data	
Foilure Diagnosis Root Cause Models Knowledge Based Uploads		Get Started →		Get Started →
Failure Analytics	Step 03	C Step 04	4	
③ System History	Start Monitoring Initiating the process of testing devices		t Cause Analysis ysing the root cause of device failures	
Q AutoML >		Get Started →		Get Started →
	Step 05	Step 06	6	
	Knowledge based Configuration Explaining failure reasons in a human-understandable way		A Configuration ng up Jira integration for task creation based on device failures	
		Get Started →		Get Started →

2. When clicked, it will display all root cause models assigned to batches along with their corresponding main test cases.

DevicePulse.Al			<u>e</u>	dinusha 🖂 💧
B Dashboard	Root Cause Config			
Setup DevicePulse.Al	🖓 🕽 🕼 Root Cause Config			
😂 Setup Summary 🗸				
Devices	Search Q Tilter			
B Batches				
Failure Diagnosis	Batch Name Main Ter	it Case Model Name	Action	
Root Cause Models			© 2	Û
Fe Knowledge Based Uploads			© 12	Û
S Failure Analytics			- © 12	
System History →				
요 User Settings			© 12	0
AutoML >			© 2	0
			• Z	Û
			• Z	Û
			© 2	Û
			◎ Z	Û
			© 12	O
			• Z	0





3. Click the **View** icon to see details of each assigned model. To update the main test case or model for a specific batch, use the **Edit** icon. To unassign a model from a batch, click the **Delete** icon.

DevicePulse.Al <				🚊 dinusha 😔
B Dashboard	Root Cause Config			
Setup DevicePulse.Al	🖓 🕽 🕼 Root Cause Config			
Setup Summary V Devices Batches	Search Q V Filt	er.		Edit Delete
Failure Diagnosis	Batch Name	Main Test Case	Model Name	Action
Root Cause Models				A O
Fe Knowledge Based Uploads				View 🖍 © 🛙 🕯
 Failure Analytics System History > 				
Q User Settings				© Z 🔋
AutoML >				© 2 🕯
				© 2 ®
				© 12 1
				© 12 1
				© 12 💼
				© 12 🕯
				© 12 18





12.0 Knowledge-Based Uploads

 To oversee all the knowledge uploads (Uploaded files or APIs), click the Knowledge-Based Uploads module in the left sidebar under Setup Summary.

DevicePulse.AI <		👂 akash 🥪
88 Dashboard	Setup Device Pulse	
Setup DevicePulse.Al Setup Summary	Step 01	Step 02
Devices Botches Failure Diagnosis Root Cause Models	Connect Data Stream Start by connecting to the IoT Platform and initiating the data stream Oct Storte	Define Success Criteria Define the test cases to validate the device data
Knowledge Based Uploads Failure Analytics System History User Settings	Step 03 Start Monitoring Initiating the process of testing devices	Step 04 Root Cause Analysis Analysing the root cause of device failures
AutoML >	Get Starte	d → Cet Storted →
	Step 05	Step 06
	Knowledge based Configuration Explaining failure reasons in a human-understandable way	ITSM Configuration Setting up Jira integration for task creation based on device failures

2. When clicked, it will display all knowledge-based uploads (files and APIs) for each batch, along with the associated project name.

DevicePulse.Al		٩	dinusha 🗸
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3. Expand the main dropdown corresponding to each batch to view the uploaded files and APIs separately..

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12.1.0 Uploaded APIs for each batch

1. To view all uploaded APIs, expand the API input dropdown. This will display the source files containing the APIs. Then, click the dropdown next to each source to see all the selected APIs associated with it.



2. For each API, you can edit the authentication key/token or delete the API by clicking the respective **Edit** or **Delete** icon, as shown below.

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12.1.1 Add new authentication type

 To add a new authentication type, click the Auth Settings button. You can then enter a name, select the type, provide the value, and specify where to apply the authentication key or token under the New Authentication tab and click the Update button.

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12.1.2 Edit the value of the authentication type

 To edit the value of an added authentication key or token, click the Edit Authentication tab. From there, you can select the name of the earlier added key/token and then update the value as needed and click the Update button.

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12.1.3 Upload new APIs

 To upload new APIs for a batch that has already uploaded APIs through a JSON file. First, expand the main dropdown for the batch to view the two options: API Input and File Upload. Then, expand the API Input dropdown. Then click **Upload JSON** to upload the new APIs for that batch, as shown below.

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12.2.0 Uploaded files for each batch

 To view all uploaded files for a batch, expand the main dropdown to access the two options: API Input and File Upload. Then, expand the File Upload section to see the list of uploaded files, as shown below. You can also drag and drop new files here. To delete any uploaded file, click the Delete button next to it. (PC: When uploading new files, make sure to have them in PDF format)

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