API Step by Step How-To for Asset and Inventory cloud products. - Scott's edit

Language Independent API Access demonstration:

This was written for AssetCloud, but also applies to InventoryCloud. URLs for InventoryCloud are in the form: https://firsttenant.waspinventorycloud.com

but substitute your own tenant name in place of "firsttenant".

Prerequisites

- 1. Postman Install Postman from https://www.getpostman.com/
- 2. API Token Generate and Save the API token. Refer to https://firsttenant.waspassetcloud.com/Help/Std/Edit User.htm
 - 3. You must use your own tenant name in place of "firsttenant" in Steps 2, 4, and 5.
 - 4. Application URL AssetCloud URL https://firsttenant.waspassetcloud.com/.

5.List of APIs - https://firsttenant.waspassetcloud.com/Help/API.

Note: You must use your own tenant name (or domain name). The tenant name will appear in place of "firsttenant" in the URL mentioned in Steps 2, 4, and 5.

API Name - Example:

POST public-api/assets/assetinfosearch

POST public-api/asset-types/infosearch

6. Request Format – JSON.

Note: POST APIs only support JSON input. Below shown is the sample JSON code.

Request Formats			
application/json, text/json		 	
Sample:		 	
<pre>{ "SearchPattern": "sample s }</pre>	tring 1"		

Sending a POST Request

To send a POST Request, follow the steps below:

1. Launch the Postman Application.

2. Create New Screen will appear. Click on the <u>Request- Create a basic request</u> link. You can also Click on the New button as shown below:



3. **Save Request** Screen will appear.

SAVE REQUEST

Requests in Postman are saved in collections (a group of requests). Learn more about creating collections

Request name

Request description (Optional)

Adding a description makes your docs better

Descriptions support Markdown

Select a collection or folder to save to:

All Collections		+ Create Collection		

- 4. Enter the Request & Collection details.
 - Enter the **Request Name**. For Example assetInfosearch.
 - Enter the **Request Description** (optional).
 - Search for Collection or Folder or Click on the +Create Collection or +Create Folder button to create new collection or folder.

SAVE REQUEST

Requests in Postman are saved in collections (a group of requests). Learn more about creating collections

Request name

assetinfosearch

Request description (Optional)

The method returns all active assets whose asset tag or asset description contains the specified texts that are entered on the combo box. Note: This is a Post API to avoid limitations inherent to passing parameters on the URL.

Descriptions support Markdown

Select a collection or folder to save to:

Search Results	+ Create Col	lection "Asset Public API
Asset Public API		
Asset Public API		

5. Click on the **Save to API Public API** button.

6. **My Workspace** screen will appear. The screen will have a tab – assetInfosearch (Request Name).

File Edit View Help				
🕂 New 🔻 Impo	ort Runner 📮	•		My Workspace 🔻
Q Filter		New Tab	assetinfosearch X	+ •••
History	Collections	▶ assetinfosearch		
		GET 🔻	Enter request URL	
Nothing in your history ye send through Postman ar	et. Requests that you re automatically saved	Authorization He	iders Body Pre-requ	est Script Tests
		TYPE Inherit auth from pa The authorization her automatically genera request. Learn more	arent v ader will be adder when you send the about authorization	This request is not inheriting any authorization
		Response		
				Hit the Send button to get a re

7. Select the HTTP Method. Choose **POST**.

ew Tab	× assetInfosear	ch	+ •••	
GET 🔺	Enter request URL			
GET	Body	Pre-reques	st Script	Tests
POST				
PUT				
PATCH		•	Thi	s request is
DELETE	l be	the		
COPY	uthorizatio	n		
HEAD				
OPTIONS				
LINK				
UNLINK				
PURGE				
LOCK				
UNLOCK			Н	it the Se
PROPFIND				
VIEW				

8. Enter **Request URL**. The Request URL is the combination of your application URL and the API Name.

🕂 New 🔻 Im	iport Runner 📭 🖛		🛃 My Workspace 🔻
Q Filter History	Collections	New Tab assetinfosearch	• + •••
Nothing in your history send through Postman here.	y yet. Requests that you are automatically saved	POST https://firsttenant.waspate Authorization Headers Body Pre- TYPE Inherit auth from parent The authorization header will be automatically generated when you send the 	sset.net/public-api/assets/assetinfosearch -request Script Tests This request is not inheriting any authorizati
		Response	

- 9. Click on the **Header** tab provided in the **My Workspace** screen.
 - Select the **Key**. Choose "Authorization".

File Edit View Help		
🕂 New 🔻 Import Runner 📭 🖛	# N	ly Workspace 🔻
Q Filter History Collections	New Tab assetinfosearch + > assetinfosearch - -	•
Nothing in your history yet. Requests that you send through Postman are automatically saved	POST https://firsttenant.waspasset.net/public-a Authorization Headers (1) Body Pre-request Scr	api/assets/assetinfosearch ipt Tests
here.	Key	Value
	Author Authorization	Value
	Resp Proxy-Authorization	

 Select the Value. Enter "Bearer", insert a space and then paste the copied token. The Response will not appear if the token is pasted without space. Refer <u>Edit User</u> for downloading and copying the API token.

assetinfosear	rch			
POST 🔻	https://firsttenant.waspasset.ne	/public-api/assets/assetinfosearch	Params	Send
Authorization	Headers (1) Body Pre-red	uest Script Tests		
Key		Value	Description	••• Bulk
Authorizati	ion	Bearer JJJIZnJIc2hfdG9rZW49TE1KNWhzUXRIRWJkd0 p4clhyN2dEXIZxJi5pc3N1ZWQ9MDcvMTgvM oxNDowNCYuZXhwaXJIcz0wNy8yMC8yMDE4 OjAwJIRva2VuPUhKb09pR3d1eEZzcGh1MDI2 Ek1MUNxUUMtS2NzcDd4MC0yaVhDekd2U1 Gt1ZTUyLXRBSnFZV0xIVVNtN1NMSWJUUFJI2 dUIZOTFiZHFSUDd5NI95SmRhLUgwRHF2T2: WtNTHQ1dE51T2dmbi0tbG1WeEZTQ0FqOE NaV9rNTVyU0xTa0dkSzhZb0VqQzlvUlk2b0p R11rQ112cDZVRDhja25xUIE1MmJIc3JBdkwzN mhsMUJhT1ZpT0JJMkc5QXJsLV95N29WZWty zZvWGlkYXR1UUk40FhoSFp2ZXlpQmpBUUY XJDNUdMUjRETzdZc05mbXBBNDd0dVJJ0VR 6MU9PdnRnNjVnJmNsaWVudF9pZD1Nb2JpB 9maXJzdHRlbmFudCZVc2VySWQ9MTM0NTk 3NS000GNiLWJjMjYtMjk1ZDEzNDc1Y2NiJnJv SBMb2dpbiZodHRw0i8vc2NoZW1hcy54bWx yZy93cy8yMDA1LzA1L2lkZW50aXR5L2NsYW PWxpamFuYWlyLmoyMkBnbWFpbC5jb20ma 3NjaGVtYXMueG1sc29hcC5vcmcvd3MvMjAv ZGVudGl0eS9jbGFpbXMvbmFtZWlkZW50aW	DpWdyRwSn jAxOCAwNT 4IDAwOjAw 1aVNjQ2VxZ 19HTmNae ZmpQdmVx xsY3c3SIJDQ Q5MjI2NnV ZT3d4cFRY HZtUkphN YTdXeUdzU (2TIFkaVJFT nU19KOHB bGVBc3NIdF 1M2QtOTA /bGVzPUFQS xzb2FwLm9 /ltcy9uYW11 aHR0cDovL vNS8wNS9p /zpZXI9MTM	

• Enter the **Description** (optional).

10. Click on the **Body** tab provided in the **My Workspace** screen.

• Choose the "Raw" radio button.

▶ assetinfosearc	h			
POST 🔻	https://firsttenant.wasp	asset.net/public-api/assets/assetinfosearch	Params	Send
Authorization	Headers (2) Body	Pre-request Script Tests		
form-data	x-www-form-urlencoded	● raw ● binary Text ▼		
1				

 Choose "JSON (application/json)" from the Content-Type drop-down menu. Once you select the content type, the Header tab will display the Content type (Key) as application/JSON (Value).

▶ assetinfosearch			
POST https://firsttenant.waspasset.net/public-api/asset 	ts/assetinfosearch	Params	Send
Authorization Headers (2) Body Pre-request Script	Tests		
● form-data ● x-www-form-urlencoded ● raw ● binary	Text 🔺		
1	Text		
	Text (text/plain)		
	JSON (application/json)		
	Javascript (application/javascript)		
	XML (application/xml)		
	XML (text/xml)		
	HTML (text/html)		

• Enter the **JSON Code**. Example – Below shown is the sample JSON Code for public-api/assets/assetinfosearch.

https://firsttenan	t.was • https://firsttenant.wa	https://firsttenant.waspasse	https://firsttenant.was	+ •••	No Environm	ient
POST 🔻	https://firsttenant.waspa:	sset.net/public-api/assets/assetinf	osearch		Params	Send
Authorization	Headers (2) Body •	Pre-request Script Tests				
form-data	x-www-form-urlencoded	🖲 raw 🔎 binary 🛛 JSON (ap	oplication/json) 🔻			
1 ▼ { 2 "Searc 3 }	hPattern": "HP"					

• Click on the **Send** button.

https://firsttenan	t.was • https://firsttenant.wa	as 😑 https://firsttenant.waspasse	https://firsttenant.was	+	No Environm	ient
POST 🔻	https://firsttenant.waspa	sset.net/public-api/assets/assetinf	osearch		Params	Send
Authorization	Headers (2) Body •	Pre-request Script Tests				
• form-data	• x-www-form-urlencoded	🖲 raw 🔎 binary 🛛 JSON (aj	oplication/json) 🔻			
1 + { 2 "Searc	hPattern": "HP"					

11. The **Response** will appear under **Body** > **Pretty**. Click on the **Save** button. Example – The response will display the search result of assets that have "HP" in it.

POST	*	https://firsttenant.waspasset.net/public-api/assets/assetinfosearch	Params	Send
Body Co	ookies	Headers (15) Test Results	Status: 200 OK	Time: 39
Pretty	Raw	Preview JSON -		
1 ▼ [2 ▼ 3	{ "R	owNumber": 0,		
4	"A	ssetTag": "10339",		
5	- A	ssetDescription": "HP Officejet Pro X551dW Printer",		
0	P A	ssetClassic; 1, ssetTypeNumber", "WD Officiat Dee VEEldy"		
8	"	ssetTypeNumber : "HP Officeist Pro X551dw Printer"		
9	"	ssetSerialNumber": "1200000"		
10	"	ssetModelName": "Lazer"		
11	"	ssetRecordStatus": 0.		
12	"H	asAttachment": false.		
13	"A	ssetTransOuantity": 0.		
14	"0	ustomFields": [].		
15	"A	ttachmentsToAdd": [].		
16	"A	ttachmentsToDelete": []		
17	},			
18 -	{			
19	"R	owNumber": 1,		
20	"A	ssetTag": "10342",		
21	"A	ssetDescription": "HP Officejet Pro X551dw Printer",		
22	"A	ssetClassId": 1,		
23	"A	ssetTypeNumber": "HP Officejet Pro X551dw",		
24	"A	ssetTypeDescription": "HP Officejet Pro X551dw Printer",		
25	"A	ssetSerialNumber": "1200915",		
26	"A	ssetModelName": "X551dW",		
27	"A	ssetRecordStatus": 0,		
28	"H	asAttachment": false,		

12. On Saving, a message will appear indicating that the "Response is saved in examples and you edited before saving. You can also add anew example with your custom response."

◀ assetinfosearch

Untitled Example

Resp	ponses are nov	v saved in Examples, which you	ı can edit before saving. You can also add new examples with your	own custom response. <u>Learn</u>	More
NAME					
asseti	infosearch				
EXAMPLE	E REQUEST				
F	POST 🔻	https://firsttenant.waspasse	t.net/public-api/assets/assetinfosearch		
Head	ders (2) B	ody •			
	Key		Value	Description ***	Bulk Edit
	Authorizati	on	Bearer JIJIZnJIc2hfdG9rZW49TE1KNWhzUXRIRWJkd		
	Content-Ty	pe	application/json		
	New key		Value	Description	
EXAMPLE	E RESPONSE				
Body	/ Headers	(15)		Status	200 OK
Pre	etty Raw	Preview JSON •			

Note:

• If you use the Invalid token, following message will get displayed.

POST 🔻	https://firsttenant.waspasset.net/public-api/assets/assetinfosearch	Params	Send

Could not get any response

There was an error connecting to https://firsttenant.waspasset.net/public-api/assets/assetinfosearch.

Why this might have happened:

- . The server couldn't send a response: Ensure that the backend is working properly
- Self-signed SSL certificates are being blocked: Fix this by turning off 'SSL certificate verification' in Settings > General
- Proxy configured incorrectly Ensure that proxy is configured correctly in Settings > Proxy
- Request timeout: Change request timeout in Settings > General
- Status 429 Too Many Requests is returned by the API if there is too much API traffic. You must slow down sending API request when you encounter this type of error. Examine the Wasp-OverloadProtection-Reset value in the response headers to determine the number of seconds you need to wait before sending the new request. Make sure to wait for the time displayed in the response header. If you send a request before the value has elapsed, your request will not get processed and a new retry value will be returned.

ody Cookies Headers (14) Test Results	Status: 429 Too Many Requests	
connection \rightarrow keep-alive		
Content-Length $\rightarrow 0$		
Date → Mon, 23 Jul 2018 08:43:28 GMT		
Expires $\rightarrow -1$		
$Pragma \rightarrow no-cache$		
Server \rightarrow Microsoft-IIS/8.5		
Server \rightarrow Microsoft-IIS/8.5		
WWW-Authenticate → Wasp-OverloadProtection-Reset 15.90639		
X-AspNet-Version \rightarrow 4.0.30319		
X-Powered-By \rightarrow ASP.NET		

 Status – 415 Unsupported Media Type is returned if the user sets the Content-Type which is not supported by the application for example – Text, Javascript, HTML.

Body	Cookies Headers (11) Test Results Status: 415 Unsupported Media Type Tim	e: 10
112	<pre>>.</pre>	
110	UCTUBLEVBINE : 2010-0/-20100:49:04.09241/+00:00 , "DofValueRecordStatus": 0	
109	"DefDateValue": 1.0, "DefDateValue", "2018-07-23T08:40:34 502417:00:00"	
108	"DefNumberValue": "sample string 3",	
107	"DCFDatalype": 1,	
106	"DcfLabel": "sample string 2",	
105	"ImportRowNumber": 1,	
104	{	
103	"CustomFields": [
102	"AssetPdCost": 1.0,	
101	"AssetPdPurchaseDate": "2018-07-23T08:49:34.592417+00:00",	
100	"AssetPdPoNumber": "sample string 21",	
99	"OwnerNumber": "sample string 20",	
98	"OwnerName": "sample string 19",	
97	"AssetTransOuantity": 18.0.	
96	"HasAttachment": true.	
95	"NewDefault4ttachment": "sample string 16".	
95	"AssetDecordStatus": 0	
92	"AssetDefaultCost": 1.0	
0.2	"Anoste Description Benja Deta", #2010.07.23708.40.24.502417.00.00#	

Status – 422 Unprocessable Entity indicates that the server understands the content type of the request entity and the syntax of the request entity is correct but was unable to process the contained instructions.

Body Cookies Headers (15) Test Results	Status: 422 Unprocessable Entity	Time: 9
Cache-Control \rightarrow no-cache, no-store		
Connection \rightarrow keep-alive		
Content-Length \rightarrow 1044		
Content-Type \rightarrow application/json		
Date → Mon, 23 Jul 2018 08:51:39 GMT		
Expires \rightarrow -1		
$Pragma \rightarrow no-cache$		
Server \rightarrow Microsoft-IIS/8.5		
Server \rightarrow Microsoft-IIS/8.5		
WaspResult \rightarrow WaspResult		

• Status – **500 Internal Server Error** is returned when an unexpected condition is encountered. For example – Error in Json code.

POST ▼	https://firsttenant.waspasset.net/public-api/asset-types/infosearch		Params	Send
Body Cookies	Headers (14) Test Results	Status: 50) Internal Server Erro	r Time: 272
Pretty Raw	Preview ISON T	500 Internal Ser	ver Error	
1 • { 2 "Resul 3 "Messa	tCode": -20000, ge": "* Unexpected error occurred. Please contact tech support.",	A generic error me specific message is	ssage, given when s suitable.	no more
4 "HttpS 5 "Field 6 }	tatusCode": 500, Name": "Object reference not set to an instance of an object."			

• Status – **200 OK** is a standard response for any successful HTTP request.

POST https://firsttenant.waspasset.net/public-api/assets/assetinfosearch Params Send Authorization Headers (2) Body Pre-request Script Tests form-data x-www-form-urlencoded raw binary jSON (application/json) form-data x-www-form-urlencoded raw binary jSON (application/json) form-data x-www-form-urlencoded raw binary jSON (application/json) form-data x-www-form-urlencoded raw binary jSON (application/json) form-data x-www-form-urlencoded raw binary jSON (application/json) Authorization FeatorehPattern*: "sample string 1" Body Cookkes Headers (15) Test Results Status: 200 OK Time Pretty Raw Preview JSON Authorization						
Authorization Headers (2) Body Pre-request Script Tests • form-data • xwww-form-urlencoded • raw • binary JSON (application/json) • 1 * [() "SearchPattern": "sample string 1" • 3) • • Body Cookies Headers (15) Test Results Status: 200 OK Time Pretty Raw Preview JSON • = • • •	POST *	https://firsttenant.waspa	sset.net/public-api/asse	ts/assetinfosearch	Params	Send
● form-data ● x-www-form-urlencoded ● raw ● binary JSON (application/json) 1 * {} 3 } "SearchPattern": "sample string 1" 3 }	Authorization	Headers (2) Body •	Pre-request Script	Tests		
1 * [6] "SearchPattern": "sample string 1" 3] Body Cookies Headers (15) Test Results Pretty Raw Preview JSON *	form-data	x-www-form-urlencoded	🖲 raw 🛛 binary	JSON (application/json) 🔹		
3 } Body Cookies Headers (15) Test Results Status: 200 OK Pretty Raw Preview JSON T	1 ▼ { 2 "Sear	chPattern": "sample string	1"			
Body Cookies Headers (15) Test Results Status: 200 OK Time Pretty Raw Preview JSON Time	3 }					
Body Cookies Headers (15) Test Results Status: 200 OK Time Pretty Raw Preview JSON Time						
Body Cookies Headers (15) Test Results Pretty Raw Preview JSON < =						
Body Cookies Headers (15) Test Results Pretty Raw Preview JSON TIME						
Body Cookies Headers (15) Test Results Pretty Raw Preview JSON						
Body Cookies Headers (15) Test Results Status: 200 OK Time Pretty Raw Preview JSON v Time Time						
Body Cookies Headers (15) Test Results Status: 200 OK Time Pretty Raw Preview JSON v Time						
Pretty Raw Preview JSON 🔻 🛱	Body Cook	ies Headers (15) Test	t Results		Status: 200 O	K Time: 30
	Pretty Ra	w Preview JSON v	Ŧ			

13. The **History** tab will store all requests you sent using the POSTMAN application and **Collection** tab is a group of saved requests. Both History and Collection tab appears on the left-hand side of the Postman application.

Н	istory Collec	ctions		History	Collections
		Clear all			C1
Toda POST	ay https://firsttenant.waspasse lic-ani/assets/assetinfosearc	et.net/pub	- 16	API Public API 1 request	
POST	https://firsttenant.waspasse lic-api/asset-types/infosearc	et.net/pub :h	GET	assetadvancedinf Asset Public API	osearch
POST	https://firsttenant.waspasse lic-api/asset-types/infosearc	et.net/pub th		2 requests	
POST	https://firsttenant.waspasse lic-api/asset-types/infosearc	et.net/pub th	hii	0 requests	
POST	https://firsttenant.waspasse lic-api/assets/assetinfosearc	et.net/pub ch	hii	AssetTypeInfoSear 2 requests	rchAPI