

QUICK START GUIDE

Making Your First BloxOne™ API Call

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Introduction

BloxOne APIs are RESTful web services that allow users to interact with the Infoblox Cloud Services Platform (CSP). BloxOne DDI APIs are used to manage and automate Infoblox DDI services on the cloud, and BloxOne Threat Defense APIs can manage the network security aspect of Infoblox infrastructure. This document is intended to assist users with making their first BloxOne API call. For more information regarding the type of API calls that can be made with BloxOne please view the [BloxOne API Documentation](#).

Prerequisites

The following are prerequisites in order to make an API call to BloxOne:

- A BloxOne User account with Administrator permissions to the associated resources you are attempting to access or modify via API.
- To create an API key a BloxOne user with the Access Control Administrator Role, or Administrator role is required.

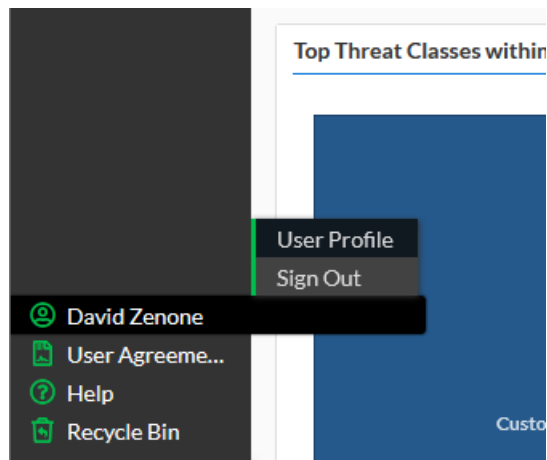
Workflow

1. Create an API key.
2. Execute an API call.
 - a. Postman
 - b. curl

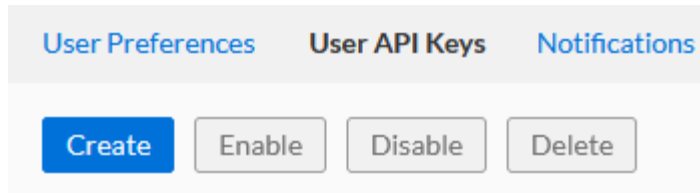
Create an API key

When BloxOne APIs require a key for authentication. To Acquire an API key, perform the following steps:

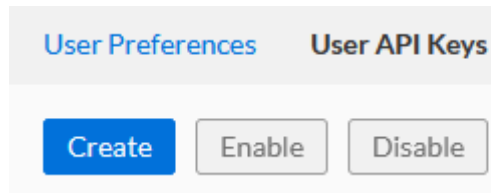
1. From the Cloud Services Portal, navigate to **User Profile** by highlighting your user account name on the bottom left of the screen and clicking on **User Profile**.



2. Click the **User API Keys** tab located near the top of the page.




3. Click **Create** to begin creating a new API key.



4. In the Create User API key panel, give the API key a **Name**.

A screenshot of the "Create User API Key" form. The title "Create User API Key" is at the top. Below it is a horizontal line. There are two input fields: one for "Name" with the value "My-API-Key" and one for "Expires at" with the value "07/08/23 08:06 am" and a calendar icon.

5. Give the API the desired expiration date and time via the **Expires at** calendar button. *Note: once this date is met, the API key will become Expired and will no longer be usable.*

Expires at 07/08/23 08:06 am 

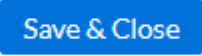
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30	31					


08 : 06 AM PM

Apply

6. Click **Save & Close** to confirm the creation of the API key.



7. In the following Prompt, copy the API key and save it for use later. *Please note that once you close this prompt, you will no longer be able to access the API key.*

 **API Access Key Generated**
Please copy this API Key as this is the only time you are able to view it.

805

Close Copy

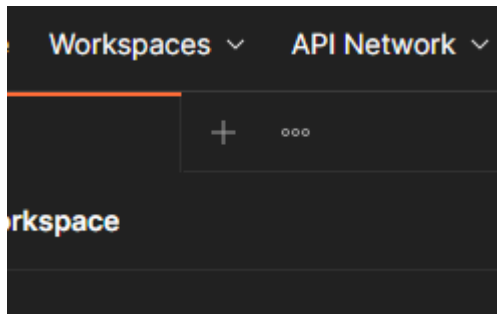
Execute your first API call

There are various ways to make API calls. This document will cover an application called Postman, and a command line tool named curl.

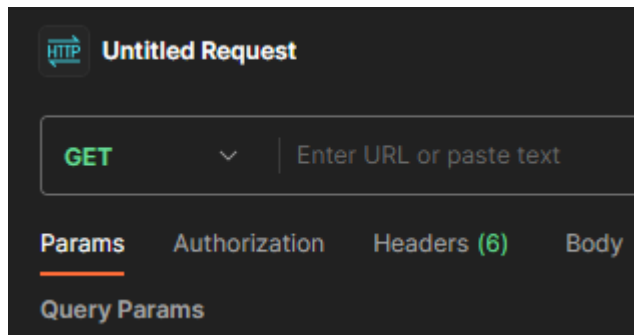
Postman

Postman is an API collaboration platform used for making REST, SOAP, or GraphQL requests. If you don't already have the application, you can download it [here](#).

1. Create a new API call by clicking the + icon in a Workspace.

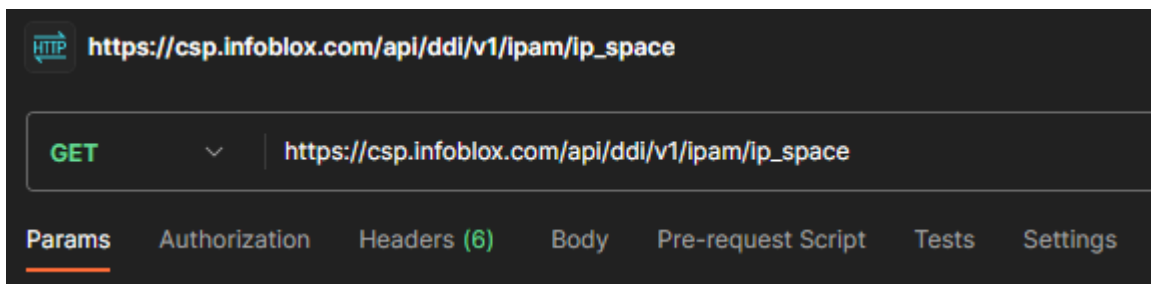


2. Ensure GET is selected for the new API call.

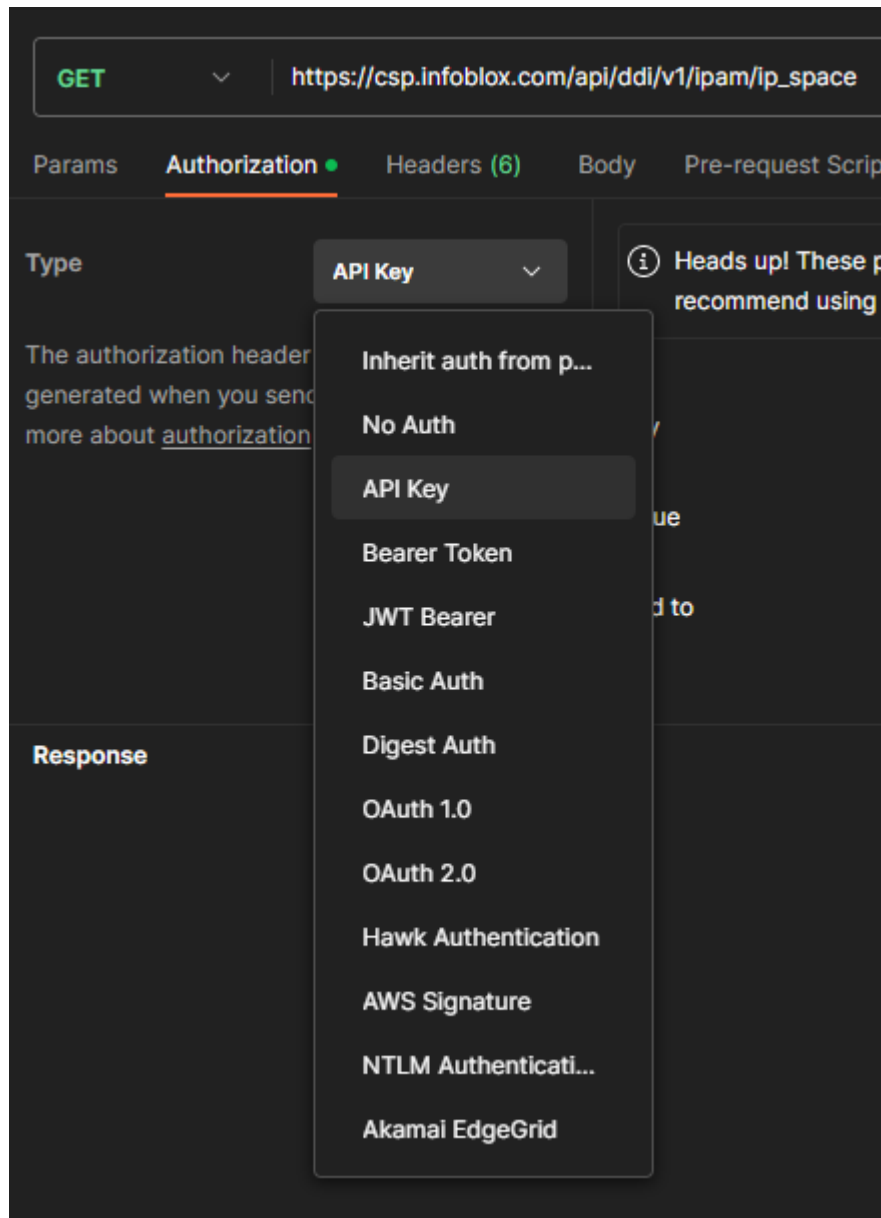


3. Enter the following URL in the **input** box. *Note, this API requests all IP Spaces from BloxOne, for more types of API calls that you can make to BloxOne please reference the [BloxOne API Documentation](#).*

`https://csp.infoblox.com/api/ddi/v1/ipam/ip_space`



- In the *Authorization* tab, select **API Key** from the *Type* drop down.



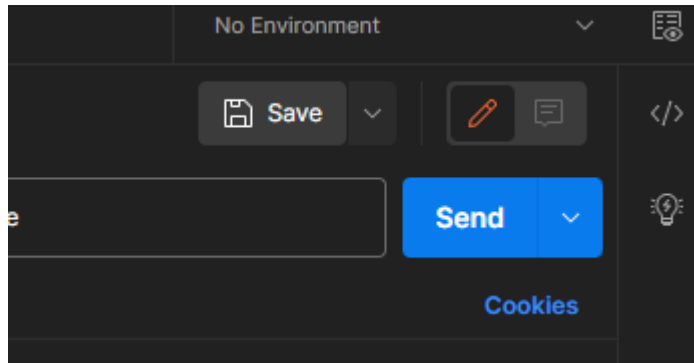
- In the **Key** field, input the text **Authorization**.



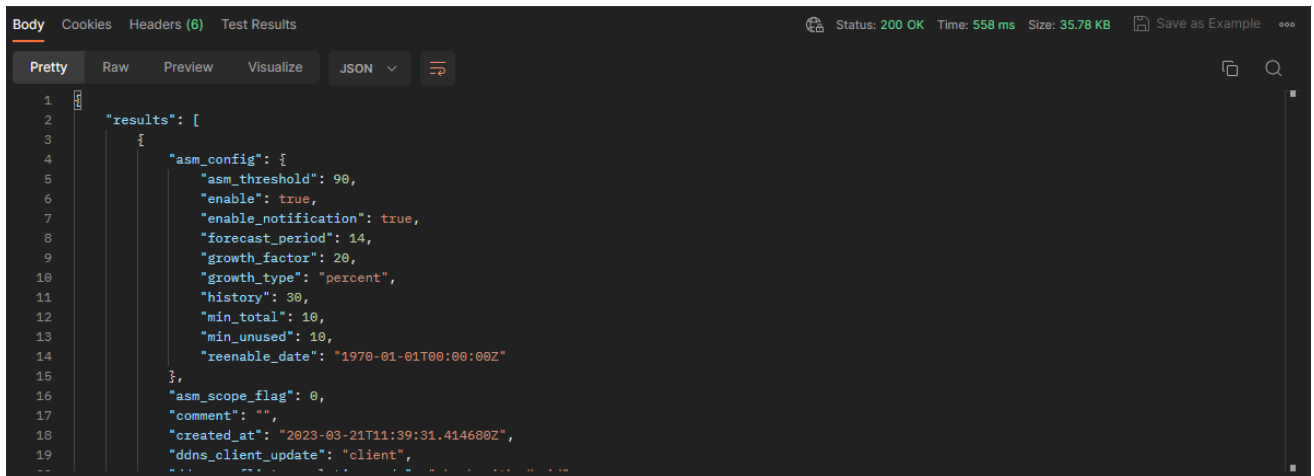
- Enter the API Key that was created earlier in this guide in the **Value** text field. (Format: Token <api-key>)



7. Click **Send** to make the API call.



8. In the Body section of Postman, the output will be visible. *Note, if Status 200 was returned, the call was successful. In the example call, all IP Spaces were retrieved.*



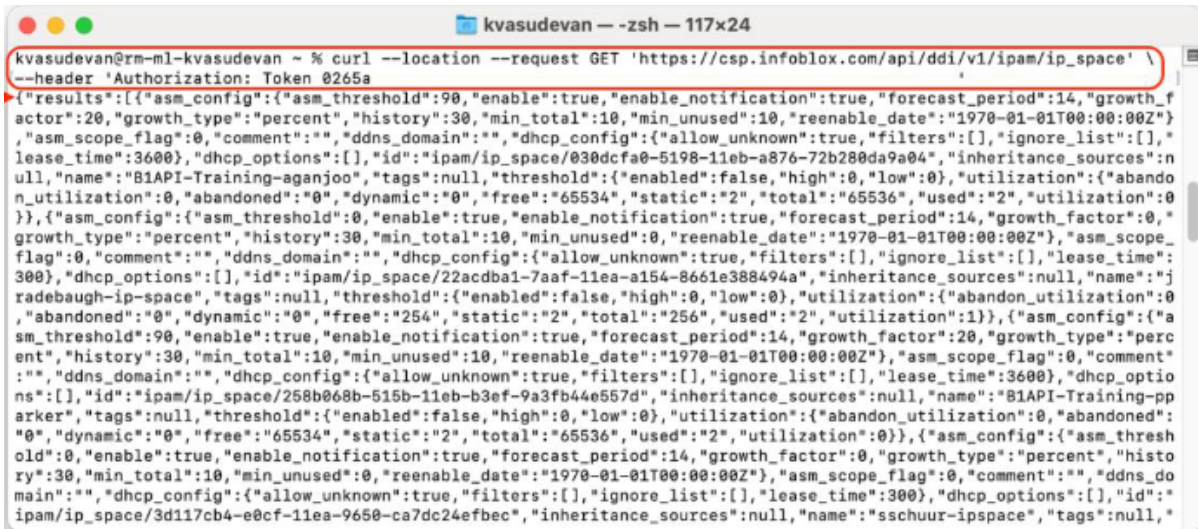
curl

The open-source software curl is used in command lines or scripts to transfer data. You can read more about it [here](#). If you don't already have it installed on your system, you can download it from [here](#).

1. Open a **command line** window.
2. Input the following **command** into the command line. *Note: replace the text <api-key> with the API key that was created earlier in this guide:*

```
curl --location --request GET
'https://csp.infoblox.com/api/ddi/v1/ipam/ip_space' \ --header
'Authorization: Token <api-key>'
```


3. If the call was successful, the output from the curl command will look similar to this:



```
kvasudevan@rm-ml-kvasudevan ~ % curl --location --request GET 'https://csp.infoblox.com/api/ddi/v1/ipam/ip_space' \
--header 'Authorization: Token 0265a'
{"results":[{"asm_config":{"asm_threshold":90,"enable":true,"enable_notification":true,"forecast_period":14,"growth_factor":20,"growth_type":"percent","history":30,"min_total":10,"min_unused":10,"reenable_date":"1970-01-01T00:00:00Z"},{"asm_scope_flag":0,"comment":"","ddns_domain":"","dhcp_config":{"allow_unknown":true,"filters":[],"ignore_list":[],"lease_time":3600},"dhcp_options":[],"id":"ipam/ip_space/030dcfa0-5198-11eb-a876-72b280da9a04","inheritance_sources":null,"name":"B1API-Training-aganjoo","tags":null,"threshold":{"enabled":false,"high":0,"low":0},"utilization":{"abandon_utilization":0,"abandoned":"0","dynamic":"0","free":"65534","static":"2","total":"65536","used":"2","utilization":0}},{"asm_config":{"asm_threshold":0,"enable":true,"enable_notification":true,"forecast_period":14,"growth_factor":0,"growth_type":"percent","history":30,"min_total":10,"min_unused":0,"reenable_date":"1970-01-01T00:00:00Z"},{"asm_scope_flag":0,"comment":"","ddns_domain":"","dhcp_config":{"allow_unknown":true,"filters":[],"ignore_list":[],"lease_time":300},"dhcp_options":[],"id":"ipam/ip_space/22acdba1-7aaf-11ea-a154-8661e388494a","inheritance_sources":null,"name":"jradebaugh-ip-space","tags":null,"threshold":{"enabled":false,"high":0,"low":0},"utilization":{"abandon_utilization":0,"abandoned":"0","dynamic":"0","free":"254","static":"2","total":"256","used":"2","utilization":1}},{"asm_config":{"asm_threshold":90,"enable":true,"enable_notification":true,"forecast_period":14,"growth_factor":20,"growth_type":"percent","history":30,"min_total":10,"min_unused":10,"reenable_date":"1970-01-01T00:00:00Z"},{"asm_scope_flag":0,"comment":"","ddns_domain":"","dhcp_config":{"allow_unknown":true,"filters":[],"ignore_list":[],"lease_time":3600},"dhcp_options":[],"id":"ipam/ip_space/258b068b-515b-11eb-b3ef-9a3fb44e557d","inheritance_sources":null,"name":"B1API-Training-pparker","tags":null,"threshold":{"enabled":false,"high":0,"low":0},"utilization":{"abandon_utilization":0,"abandoned":"0","dynamic":"0","free":"65534","static":"2","total":"65536","used":"2","utilization":0}},{"asm_config":{"asm_threshold":0,"enable":true,"enable_notification":true,"forecast_period":14,"growth_factor":0,"growth_type":"percent","history":30,"min_total":10,"min_unused":0,"reenable_date":"1970-01-01T00:00:00Z"},{"asm_scope_flag":0,"comment":"","ddns_domain":"","dhcp_config":{"allow_unknown":true,"filters":[],"ignore_list":[],"lease_time":300},"dhcp_options":[],"id":"ipam/ip_space/3d117cb4-e0cf-11ea-9650-ca7dc24efbec","inheritance_sources":null,"name":"sschuur-ip-space","tags":null,"
```



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