Isilon API Endpoints and Self Docs

Overview

This document is provided to enable users to learn to browse the Isilon Platform API endpoints as well as the built-in documentation to better use the API for automation Tasks

Pre-Requirements

For the purposes of simplicity this document will focus on execution of python code for the examples. Other languages can be used but will require different environments. Download and install from each category below:

Isilon Cluster

Access to an Isilon Cluster to interact with is a necessity. The cluster should be reachable over the network from the system being used to test with. It is recommended that testing be done against a non-production cluster or Isilon Simulator.

Ssh Access as root to the Isilon Cluster

Pre-Requirements Test

Reachability

Verify the cluster is reachable by accessing the WebUI at https://$CLUSTERIP:8080 (where $CLUSTERIP is the actual IP address of the cluster)

Ssh Access

Ssh into the cluster as root and complete authentication.

Enable Basic Authentication for the API (OneFS v9.1+)

The following command is to enable basic authentication to allow the browser to be able to access the API without using session management. This is needed to be able to browse the list of endpoints and use the built-in documentation. It is not recommended that customer enable basic authentication on production clusters for security reasons.

Ssh into the Isilon cluster and execute the following:

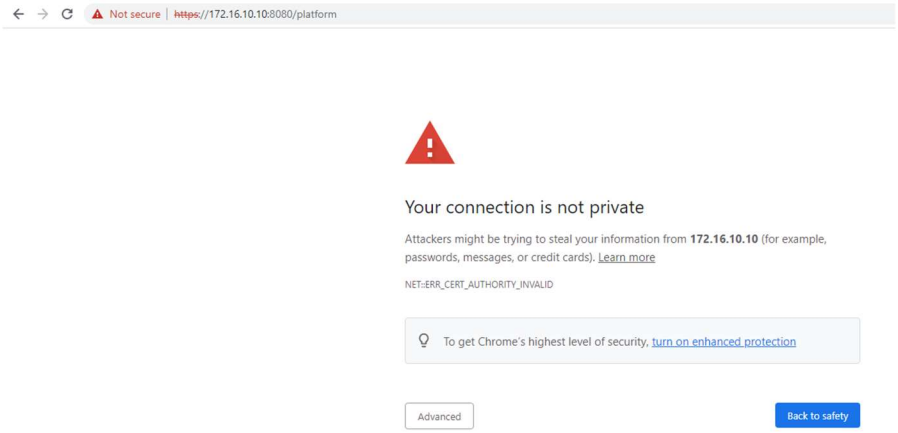
```
isi_gconfig -t web-config auth_basic=true
```

There should be no output from issuing the command if it was successful.

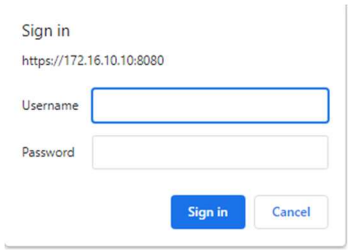
Access the List of Platform API Endpoints

Access the cluster using a web browser with the URL https://$CLUSTERIP:8080/platform (where $CLUSTERIP is the actual IP address of the cluster)

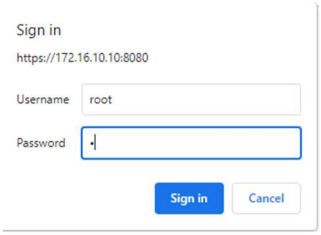
Example:



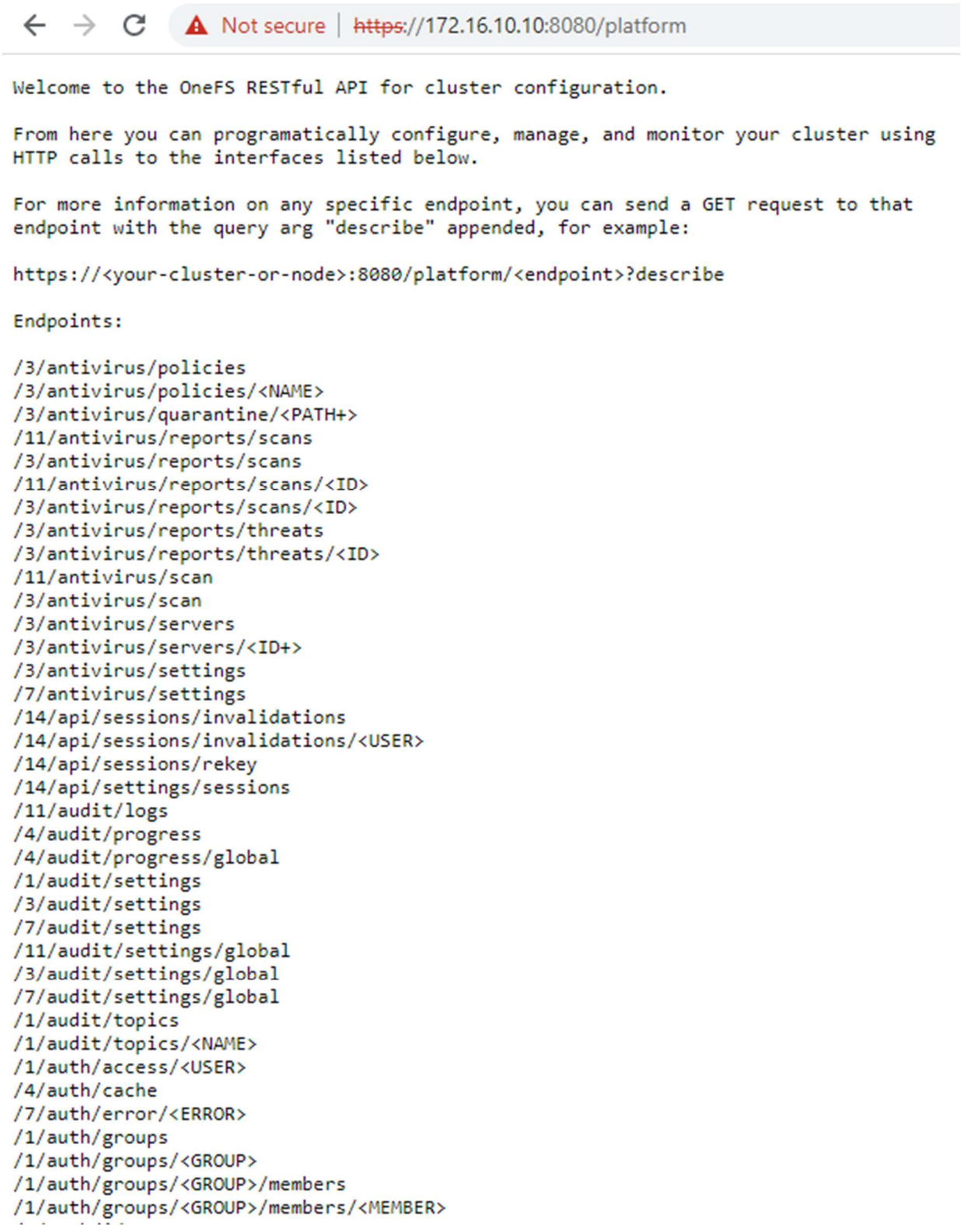
Accept the self signed certificate to get the basic login prompt:



Login at root:



Then you should receive the entire list of Platform API endpoints:



Access an Endpoint Built-in Documentation (?describe)

Access the URL https://$CLUSTERIP:8080/platform/3/cluster/config?describe (where $CLUSTERIP is the actual IP address of the cluster)

Example:


```
Resource URL: /platform/3/cluster/config

    Overview: This resource contains general information about the cluster.

     Methods: GET

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Method GET: Retrieve the cluster information.

URL: GET /platform/3/cluster/config

There are no query arguments for this method.

GET response body schema:
{
  "type": [
    {
      "additionalProperties": false,
      "type": "object",
      "description": "A list of errors that may be returned.",
      "properties": {
        "errors": {
          "minItems": 1,
          "items": {
            "additionalProperties": false,
            "type": "object",
            "description": "An object describing a single error.",
            "properties": {
              "field": {
                "minLength": 1,
                "type": "string",
                "description": "The field with the error if applicable.",
                "maxLength": 8192
              },
              "message": {
                "minLength": 1,
                "type": "string",
                "description": "The error message.",
                "maxLength": 8192
              },
              "code": {
                "minLength": 1,
                "type": "string",
                "description": "The error code.",
                "maxLength": 8192
              }
```

The built-in documentation (“?describe”) provides all of the methods (GET, PUT, POST, DELETE) for each endpoint as well as the input and output json structures.