

Anomaly Detection Tutorial : Registration

T. J. Watson Research Center

1 <https://developer.ibm.com/apis/catalog/ai4industry--anomaly-detection-product/api/API--ai4industry--anomaly-detection-api>



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Anomaly Detection

By IBM

Perform anomaly detection on timeseries data in your Industry 4.0 applications. The API allows the use of unsupervised techniques to detect anomalies in a univariate or multivariate batch of data. One can set the configuration to fine tune the model or rely on the optimal selection of the anomaly detection algorithm based on the input data.

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IBM Research Anomaly Detection API

Perform anomaly detection on timeseries data in your Industry 4.0 applications. The API allows the use of unsupervised techniques to detect anomalies in a univariate or multivariate batch of data. One can set the configuration to fine tune the model or rely on the optimal selection of the anomaly detection algorithm based on the input data.

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ai4industry: Anomaly Detection API Product

Active
Expires on Aug 8, 2023

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It may take some time for system to add AD service to your account



The screenshot shows the IBM developer dashboard. On the left is a navigation sidebar with a search bar and menu items: Edit Profile, Dashboard, Saved, Following, Conferences/Events, APIs, and IBM Developer Newsletters. The main content area is titled 'APIs' and contains a 'Visit IBM API Hub' button. Below this is the 'API Subscriptions(2)' section, which lists two subscriptions: 'Anomaly Detection' (highlighted with a blue box and a red arrow pointing to a blue circle with the number 5) and 'IBM SaaS User and Subscription Management'.

APIs

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API Subscriptions(2)

- 
Anomaly Detection
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IBM SaaS User and Subscription Management
By IBM

Copy Client ID and Client Secrets

Anomaly Detection

Quick Access to your API

[Read the API documentation](#) 

About your API subscription

[Manage subscription](#) 

Key management

API keys

Add, remove and update keys below

 [Generate API key](#) 

Name	Credentials
 Key1	Client ID

6



Copy Client ID and Client Secrets

Key management

API keys

Add, remove and update keys below

7



Generate API key



Name	Credentials
Key1	<p>Client ID</p> <p>Client secret</p>



Key1

Client ID

.....

Client secret

.....



Test AD Service Credential

Anomaly Detection

Quick Access to your API

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[Read the API documentation](#)

About your API subscription

[Manage subscription](#)

Key management

API keys

Add, remove and update keys below

Test AD Service Credential

The screenshot displays the IBM API Explorer interface for the Anomaly Detection Service. On the left, a navigation pane shows the 'Anomaly Detection API' section expanded to 'Connection Check'. The main content area shows the 'Connection Check' endpoint with a GET method and the URL `/connection-check`. Below the endpoint name, a description states: "Check the connection status of the anomaly detection service. If the service is ready, a message of 'The anomaly detection service is up.' will be returned." A red arrow points from a blue circle containing the number '9' to the text "The anomaly detection service is up.". Below the description, the 'Request URL' is listed as `https://api.ibm.com/ai4industry/zun/connection-check`. On the right, a 'Code snippet' panel shows the cURL command for the endpoint. A blue box highlights the 'Try this API' button, with a red arrow pointing from a blue circle containing the number '10' to it. A 'Site feedback' button is visible on the far right edge.

Overview

- Introduction
- Getting Started
- Code snippet
- Anomaly Detection API
 - Connection Check
 - Connection Check
 - Get Result
 - Submit an Anomaly Detection Job

API reference

Connection Check

GET /connection-check

Check the connection status of the anomaly detection service. If the service is ready, a message of "The anomaly detection service is up." will be returned.

Request URL

```
https://api.ibm.com/ai4industry/zun/connection-check
```

Code snippet

Connection Check

cURL Ruby Python PHP Java Node Go Swift

```
1 curl --request GET \  
2 --url https://api.ibm.com/ai4industry/zun/connection-check \  
3 --header 'X-IBM-Client-Id: REPLACE_THIS_KEY' \  
4 --header 'X-IBM-Client-Secret: REPLACE_THIS_KEY' \  
5 --header 'accept: application/json'
```

OpenAPI doc

Try this API

Test AD Service Credential: If you see “200 OK”, then the registration process is successful.

GET `https://api.ibm.com`

Request URL
`https://api.ibm.com/ai4industry/run/connection-check`

Security :

Identification

X-IBM-Client-Id

X-IBM-Client-Secret

By clicking "Run request" below, you agree to the [Terms](#) and acknowledge the [Privacy Policy](#).

Site feedback

APPLICATION/JSON

200 OK

Request

GET `https://api.ibm.com/ai4industry/run/connection-check`

Header:

Accept: application/json

X-IBM-Client-Id:

X-IBM-Client-Secret: *****

Response :

Code: 200

Header:

content-type: application/json

x-global-transaction-id:

x-ratelimit-limit: name=rate-limit-1,100;

x-ratelimit-remaining: name=rate-limit-1,99;

```
{
  "message": "The anomaly detection service is up."
}
```



- Developer IBM
 - <https://developer.ibm.com/profile/myapis>
- AD Service Spec
 - <https://developer.ibm.com/apis/catalog/ai4industry--anomaly-detection-product/>
- Getting Started Guide
 - <https://developer.ibm.com/learningpaths/get-started-anomaly-detection-api>
- Set of Notebooks
 - [IBM/anomaly-detection-code-pattern: Sample Jupyter Notebook for playing around with the Anomaly Detection service to be made available on API Hub \(github.com\)](#)

- Getting Started Guide

- Follow the instruction on the following page

- <https://developer.ibm.com/learningpaths/get-started-anomaly-detection-api>