

API

Watson IBM

- EndPoints desta API é por localização no mundo:
 - Dallas: <https://us-south.ml.cloud.ibm.com>
 - Frankfurt - <https://eu-de.ml.cloud.ibm.com>
 - London - <https://eu-gb.ml.cloud.ibm.com>
 - Tokyo - <https://jp-tok.ml.cloud.ibm.com>
 - Sydney - <https://au-syd.ml.cloud.ibm.com>

- Um exemplo do parâmetro post

```
POST /ml/v4/ai_services
```

- Um exemplo do parâmetro get

```
GET /ml/v4/ai_services/{id}
```

- Um exemplo do parâmetro patch

```
PATCH /ml/v4/ai_services/{id}
```

- Um exemplo do parâmetro delete

```
DELETE /ml/v4/ai_services/{id}
```

- Um exemplo do parâmetro put

```
PUT /ml/v4/ai_services/{id}/code
```

Exemplo de Requisição POST

```
curl --request POST 'https://{cluster_url}/ml/v4/ai_services?version=2023-10-26'  
-H 'Authorization: Bearer eyJhbGciOiJSUzUxM...'   
-H 'Content-Type: application/json'   
-H 'Accept: application/json'   
-d '{  
  "name": "ai-service-1",  
  "space_id": "12ac4cf1-252f-424b-b52d-5cdd9814987f",  
  "software_spec": {  
    "id": "45f12dfe-aa78-5b8d-9f38-0ee223c47309"  
  },  
  "documentation": {  
    "request": {  
      "application/json": {  
        "$schema": "http://json-schema.org/draft-07/schema#",  
        "type": "object",  
        "properties": {  
          "query": {  
            "type": "string"  
          },  
          "parameters": {  
            "properties": {  
              "max_new_tokens": {  
                "type": "integer"  
              },  
              "top_p": {  
                "type": "number"  
              }  
            },  
            "required": [  
              "max_new_tokens",  
              "top_p"  
            ]  
          }  
        },  
        "required": [  
          "query"  
        ]  
      },  
      "application/png": {  
        "$schema": "http://json-schema.org/draft-07/schema#",  
        "type": "object",  
        "properties": {  
          "image": {  
            "type": "string",  
            "format": "binary"  
          }  
        },  
        "required": [  
          "image"  
        ]  
      }  
    }  
  }  
}
```

```
    }
  },
  "response": {
    "application/json": {
      "$schema": "http://json-schema.org/draft-07/schema#",
      "type": "object",
      "properties": {
        "query": {
          "type": "string"
        },
        "result": {
          "type": "string"
        }
      },
      "required": [
        "query",
        "result"
      ]
    },
    "application/png": {
      "$schema": "http://json-schema.org/draft-07/schema#",
      "type": "string",
      "format": "binary"
    }
  }
}
```

Exemplo de Resposta POST

The response with the result.

```
{
  "metadata": {
    "id": "b53c8118-b1ca-43ef-a597-ef839ff7129f",
    "name": "ai-app-1",
    "space_id": "12ac4cf1-252f-424b-b52d-5cdd9814987f",
    "created_at": "2023-05-02T16:27:51Z"
  },
  "entity": {
    "software_spec": {
      "id": "45f12dfe-aa78-5b8d-9f38-0ee223c47309"
    },
    "documentation": {
      "request": {
        "application/json": {
          "$schema": "http://json-schema.org/draft-07/schema#",
          "type": "object",
          "properties": {
            "query": {
              "type": "string"
            },
            "parameters": {
              "properties": {
                "max_new_tokens": {
                  "type": "integer"
                },
                "top_p": {
                  "type": "number"
                }
              },
              "required": [
                "max_new_tokens",
                "top_p"
              ]
            }
          },
          "required": [
            "query"
          ]
        },
        "application/png": {
          "$schema": "http://json-schema.org/draft-07/schema#",
          "type": "object",
          "properties": {
            "image": {
              "type": "string",
              "format": "binary"
            }
          },
          "required": [
            "image"
          ]
        }
      },
      "response": {
        "application/json": {
          "$schema": "http://json-schema.org/draft-07/schema#",
          "type": "object",
          "properties": {
            "query": {
              "type": "string"
            },
            "result": {
              "type": "string"
            }
          },
          "required": [
            "query",
            "result"
          ]
        },
        "application/png": {
          "$schema": "http://json-schema.org/draft-07/schema#",
          "type": "string",
          "format": "binary"
        }
      }
    }
  }
}
```

HTTP code's mais comuns

- Alguns dos HTTP code's mais comuns de acordo com a documentação da IBM:

HTTP Code	Description	Recovery
200	Success	The request was successful.
400	Bad Request	The input parameters in the request body are either incomplete, or in the wrong format, or some other input validation failed. Be sure to include all required parameters in your request and check the request body.
401	Unauthorized	You are not authorized to make this request. Log in and try again or provide a valid token. See Authenticating with IAM tokens for instructions on logging in. If this error persists, contact the account owner to check your permissions.
403	Forbidden	The supplied authentication is not authorized.
404	Not Found	The requested resource could not be found.

Sobre autenticação

O Watson precisa de chaves de API. [Understanding API keys | Docs da IBM Cloud](#)