

IEC Type 2 API Document for R5

Introduction

This document covers both Integrated Edge Cloud(IEC) Type 1 & 2. The north bound APIs to interact with gopaddle to upload, launch, view, list and delete the blueprint is listed below. This is yet another approach to deploy the blueprint and maintain it using an intuitive UI.

Steps to generate the bearer token

1. Subscribe to gopaddle by signing up at <https://portal.gopaddle.io>
2. Once you login to the gopaddle account, select the project or create a new project. To create a project, choose the **settings** option in the top navigation panel and select **Project**. Once the project is created, navigate to the project and choose the project ID from the browser navigation panel.
3. Navigate to the **settings** option in the top navigation panel and click on **Teams** option.
4. Create a new role with **All permissions** across **All resources**.
5. Add a new user with the above role.
6. Select the **API token** option for the user and generate the new token. This token can be used as the bearer token in the REST API calls.

REST APIs

Upload Terraform template to gopaddle repository

```
POST https://portal.gopaddle.io/gateway/v1/{projectID}/terraform/upload
Header:
{
  Authorization: token <bearer_token>
}

Request:
{
  "fileName": "terraform",
  "fileContent" : <Content in []bytes>
}

Response:
{
  "message": "Uploading terraform template",
  "requestID": "a9fbd75c-8b17-4523-b024-81be7d860ca2",
  "activityID": "act2a53ed2de3e3de4ffbe8183e3f652bd7eefc",
  "templateID": "tmp3a2c220ae6d30e482beab5ce9a6f242d434d"
}
```

Get an uploaded template from gopaddle

```

GET https://portal.gopaddle.io/gateway/v1/{projectID}/terraform/{templateID}
Header:
{
  Authorization: token <bearer_token>
}

Response:
{
  "id": "tmp8a2b4bc5e00b4e458aeb12ce36b9b6b9ccf1",
  "templateGraph": <base64 string>,
  "project": "",
  "fileName": "sample",
  "createdTime": "2021-05-14 03:21:19.399387876 +0000 UTC",
  "dependencyRef": [

  ],
  "owner": {
    "id": "1"
  }
}

```

Retrieve the key file associated with a template from gopaddle

```

GET https://portal.gopaddle.io/gateway/v1/{projectID}/terraform/{templateID}/keyFile
Header:
{
  Authorization: token <bearer_token>
}

Response:
{
  "keyFile": {
    "variable": [
      {
        "aws_region": [
          {
            "default": "us-east-2",
            "description": "aws_region"
          }
        ],
      },
      {
        "aws_instance": [
          {
            "default": "t2.small",
            "description": "instance_type"
          }
        ],
      },
      {
        "aws_ami": [
          {
            "default": "ami-0b9064170e32bde34",
            "description": "aws_ami"
          }
        ],
      },
      {
        "access_key": [
          {
            "default": "<access_key>",
            "description": "access_key"
          }
        ],
      },
      {
        "secret_key": [
          {

```

```

        "default": "<secret_key>",
        "description": "secret_key"
    }
},
{
    "aws_subnet_id": [
        {
            "default": "subnet-d64dcabe",
            "description": "subnet_id"
        }
    ],
    "key_name": [
        {
            "default": "terraform",
            "description": "key_name"
        }
    ],
    "vpc_id": [
        {
            "default": "vpc-561e9f3e",
            "description": "vpc_id"
        }
    ]
},
{
    "fileContent": "<base64Encoded_filecontent>",
    "name": "terraform.pem"
},
{
    "fileContent": "<base64Encoded_filecontent>",
    "name": "token"
}
]
}

```

List all the uploaded templates from gopaddle

```

GET https://portal.gopaddle.io/gateway/v1/{ProjectID}/terraform?read-type=templateList
Header:
{
  Authorization: token <bearer_token>
}

Response:
{
  "paginationCount": 1,
  "templates": [
    {
      "id": "tmp8a2b4bc5e00b4e458aeb12ce36b9b6b9ccf1",
      "templateGraph": <base64 string>
      "name": "",
      "project": "",
      "fileName": "sample",
      "createdTime": "2021-05-13 08:28:10.584356353 +0000 UTC",
      "dependencyRef": [],
      "owner": {
        "id": "1"
      }
    }
  ],
  "count": 1,
  "requestID": "b3948ae9-e42e-4446-8946-a66ba42f29ee"
}

```

Launch a template from gopaddle

```

POST https://portal.gopaddle.io/gateway/v1/{ProjectID}/terraform/{templateID}/launch
Header:
{
  Authorization: token <bearer_token>
}

Request:
{
  "files":{
    "keyFile":<keyFileContent>,
    "files":[
      {
        "fileContent":<base64Encoded_filecontent>,
        "name":"terraform.pem"
      },
      {
        "fileContent":<base64Encoded_filecontent>,
        "name":"token"
      }
    ]
  }
}

Response:
{
  "message": "Template launch triggered",
  "templateID": "tmp6a431367ea6eae4218eb3ffeb39179a745f2",
  "activityID": "act1ae38985e9984e43d7ea6d2edc5c4f752cf2"
}

```

Get all activities associated with a launch operation from gopaddle

```

GET https://portal.gopaddle.io/gateway/v1/{ProjectID}/terraform/{templateID}/activity
Header:
{
  Authorization: token <bearer_token>
}

Response:
{
  "Activities": [
    {
      "templateID": "tmp0a2bc500eecb6e48cdea4dce81aa874d59e8",
      "id": "actcac0d817e00f8e49a5e9e22ed20b0adceab4",
      "operation": "terraform",
      "summaries": [
        {
          "state": "Running",
          "description": "Validating terraform file",
          "eventName": "TERRAFORM_INIT",
          "timestamp": "2021-05-28 06:08:43.691868604 +0000 UTC",
          "level": "Info"
        },
        {
          "state": "Running",
          "description": "Creating the terraform template",
          "eventName": "TERRAFORM_INIT",
          "timestamp": "2021-05-28 06:08:43.872481208 +0000 UTC",
          "level": "Info"
        },
        {
          "state": "Running",
          "description": "terraform plan executed.",
          "eventName": "TERRAFORM_INIT",
          "timestamp": "2021-05-28 06:10:12.917442967 +0000 UTC",
          "level": "Info"
        },
        {
          "state": "Running",
          "description": "created the terraform grpah.png",
          "eventName": "TERRAFORM_GRAPH",
          "timestamp": "2021-05-28 06:10:16.075130017 +0000 UTC",
          "level": "Info"
        },
        {
          "state": "Running",
          "description": "uploaded the terraform template",
          "eventName": "TERRAFORM_INIT",
          "timestamp": "2021-05-28 06:10:16.621650279 +0000 UTC",
          "level": "Info"
        }
      ],
      "operationType": "TERRAFORM_INIT",
      "status": "Running",
      "updatedAt": "2021-05-28 06:08:43.466032275 +0000 UTC"
    }
  ],
  "paginationCount": 1,
  "count": 1,
  "requestID": "51624d1e-fe68-4949-9c1a-d9a1f3cf7046"
}

```

Get details of a specific activity from gopaddle

```

GET https://portal.gopaddle.io/gateway/v1/{ProjectID}/terraform/{templateID}/activity/{activityID}
Header:
{
  Authorization: token <bearer_token>
}

Response:
{
  "accountID": "1a56b4adge67fg4622ga052g93280b35c5ee",
  "id": "actcac0d817e00f8e49a5e9e22ed20b0adceab4",
  "templateID": "tmp0a2bc500eeeb6e48cdea4dce81aa874d59e8",
  "operationType": "TERRAFORM_INIT",
  "operation": "terraform",
  "status": "Running",
  "updatedAtTime": "2021-05-28 06:08:43.466032275 +0000 UTC",
  "summaries": [
    {
      "level": "Info",
      "state": "Running",
      "eventName": "TERRAFORM_INIT",
      "description": "Validating terraform file",
      "timeStamp": "2021-05-28 06:08:43.691868604 +0000 UTC"
    },
    {
      "level": "Info",
      "state": "Running",
      "eventName": "TERRAFORM_INIT",
      "description": "Creating the terraform template",
      "timeStamp": "2021-05-28 06:08:43.872481208 +0000 UTC"
    },
    {
      "level": "Info",
      "state": "Running",
      "eventName": "TERRAFORM_INIT",
      "description": "terraform plan executed.",
      "timeStamp": "2021-05-28 06:10:12.917442967 +0000 UTC"
    },
    {
      "level": "Info",
      "state": "Running",
      "eventName": "TERRAFORM_GRAPH",
      "description": "created the terraform graph.png",
      "timeStamp": "2021-05-28 06:10:16.075130017 +0000 UTC"
    },
    {
      "level": "Info",
      "state": "Running",
      "eventName": "TERRAFORM_INIT",
      "description": "uploaded the terraform template",
      "timeStamp": "2021-05-28 06:10:16.621650279 +0000 UTC"
    }
  ]
}

```

Get the status of the cluster launch in gopaddle

```

GET https://portal.gopaddle.io/gateway/v1/{ProjectID}/terraform/{templateID}/status
Header:
{
  Authorization: token <bearer_token>
}

Response:
{
  "status": "Running"
}

```

Delete a template from gopaddle

```
DELETE https://portal.gopaddle.io/gateway/v1/{projectID}/terraform/{templateID}
Header:
{
  Authorization: token <bearer_token>
}

Response:
{
  "message": "Template tmp8a2b4bc5e00b4e458aeb12ce36b9b6b9ccf1 deleted successfully"
}
```