

Discord API • Part I

API useapi.net/docs/articles/discord-api-part-1



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Interact with Midjourney using Discord API • Part I

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Introduction

This practical guide shows you how to create basic automation using Midjourney [/imagine](#) command as an example.

For this exercise, you'll need Discord account with active Midjourney subscription, \$10 Basic Plan will do just fine.

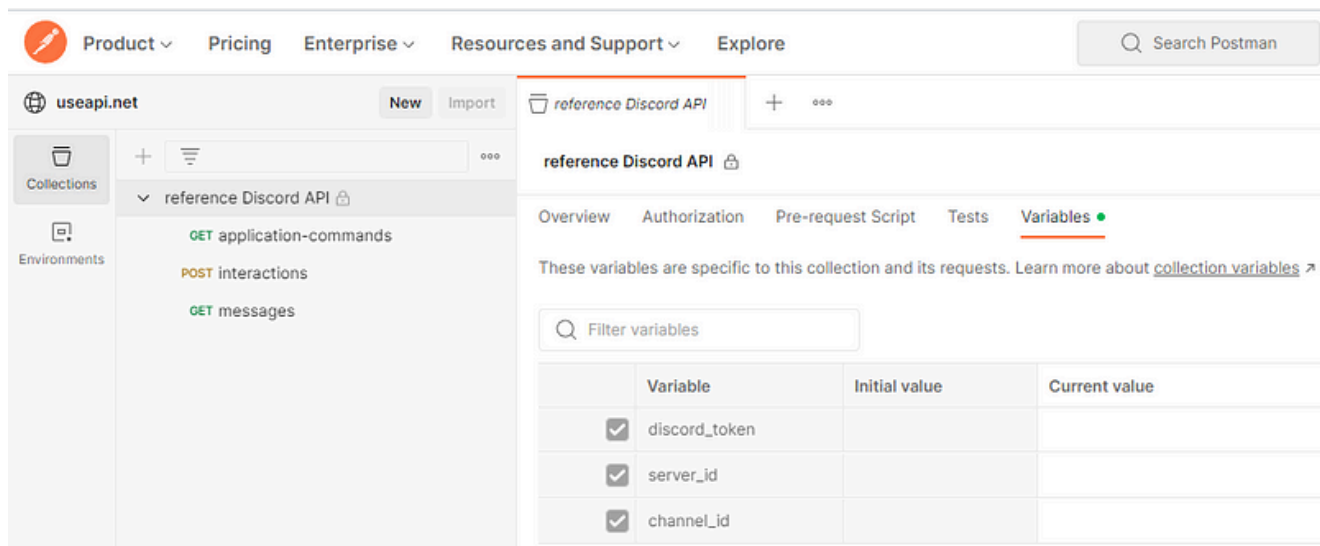
Follow these [simple steps](#) to obtain:

- Discord server id number, referenced in this article as `server_id`
- Discord channel id number, referenced in this article as `channel_id`
- Discord token, referenced in this article as `discord_token`

We will be using listed below Discord API public endpoints:

- [Application Commands](#) to get Midjourney imagine command details and post imagine interaction to desired Discord channel
- [Get Channel Messages](#) to retrieve imagine interaction(s) results (messages) from Discord channel

Please feel free to use public Postman collection [referencing Discord API](#) mentioned in this article. Make sure to place your values into collection variables and save them before executing GET and POST collection calls:



Discord API authorization

All Discord API calls mentioned here require HTTP Authorization header with `discord_token`, example:

Authorization: discord_token

Retrieve image Discord interaction details

Execute [application-commands](#) GET request

https://discord.com/api/v10/channels/channel_id/application-commands/search?type=1&include_applications=true&query=imagine

Response body:

```

{
  "applications": [
    {
      "id": "936929561302675456",
      "name": "Midjourney Bot",
      "icon": "f6ce562a6b4979c4b1cbc5b436d3be76",
      "description": "Generate an image based on a text prompt in under 60
seconds using the </imagine:938956540159881230>
command!\n\nhttps://docs.midjourney.com/docs/terms-of-service",
      "summary": "",
      "type": null,
      "bot": {
        "id": "936929561302675456",
        "username": "Midjourney Bot",
        "global_name": null,
        "avatar": "f6ce562a6b4979c4b1cbc5b436d3be76",
        "discriminator": "9282",
        "public_flags": 589824,
        "bot": true,
        "avatar_decoration_data": null
      }
    }
  ],
  "application_commands": [
    {
      "id": "938956540159881230",
      "application_id": "936929561302675456",
      "version": "1118961510123847772",
      "default_member_permissions": null,
      "type": 1,
      "nsfw": false,
      "name": "imagine",
      "description": "Create images with Midjourney",
      "dm_permission": true,
      "contexts": [
        0,
        1,
        2
      ],
      "integration_types": [
        0
      ],
      "options": [
        {
          "type": 3,
          "name": "prompt",
          "description": "The prompt to imagine",
          "required": true
        }
      ]
    }
  ]
},

```

```

    "cursor": {
      "previous": "WzExNTE1NDQ4NzM4MjA40TMzMDYsIDAsIDkzODk1NjU0MDE1OTg4MTIzMf0=",
      "next": null,
      "repaired": false
    }
  }
}

```

We will need `application_commands[0]` object which has imagine command details, let's extract it for future references:

```

{
  "id": "938956540159881230",
  "application_id": "936929561302675456",
  "version": "1118961510123847772",
  "default_member_permissions": null,
  "type": 1,
  "nsfw": false,
  "name": "imagine",
  "description": "Create images with Midjourney",
  "dm_permission": true,
  "contexts": [
    0,
    1,
    2
  ],
  "integration_types": [
    0
  ],
  "options": [
    {
      "type": 3,
      "name": "prompt",
      "description": "The prompt to imagine",
      "required": true
    }
  ]
}

```

Compose and execute imagine interaction to desired Discord channel

Execute [interactions](#) POST request <https://discord.com/api/v10/interactions>.

Request payload:

```

{
  "type": 2,
  "application_id": "936929561302675456",
  "guild_id": "server_id",
  "channel_id": "channel_id",
  "session_id": "$randomInt",
  "data": {
    "version": "1118961510123847772",
    "id": "938956540159881230",
    "name": "imagine",
    "type": 1,
    "options": [
      {
        "type": 3,
        "name": "prompt",
        "value": "YOUR MIDJOURNEY PROMPT GOES HERE"
      }
    ],
    "application_command": {
      "id": "938956540159881230",
      "application_id": "936929561302675456",
      "version": "1118961510123847772",
      "default_member_permissions": null,
      "type": 1,
      "nsfw": false,
      "name": "imagine",
      "description": "Create images with Midjourney",
      "dm_permission": true,
      "contexts": [
        0,
        1,
        2
      ],
      "integration_types": [
        0
      ],
      "options": [
        {
          "type": 3,
          "name": "prompt",
          "description": "The prompt to imagine",
          "required": true
        }
      ]
    },
    "attachments": []
  }
}

```

- Fields `application_id` and `application_command` should be set to values extracted in step above.
- Place your Midjourney prompt into `data.options[0].value` field.

- Field `session_id` can be just any random integer number, if you using linked above Postman collection this value will be autogenerated by Postman.

HTTP Response Status should be [204 No Content](#), any other response status indicate problem with your payload.

Finally retrieve imagine command results

Execute [messages](#) GET request

https://discord.com/api/v10/channels/channel_id/messages

Response body (redacted for brevity):

```

[
  {
    "id": "<Discord message id>",
    "type": 0,
    "content": "***YOUR MIDJOURNEY PROMPT GOES HERE --s 750 --v 5.2** - <@Discord
user id> (fast)",
    "channel_id": "<Discord channel id>",
    "attachments": [
      {
        "url": "<generated image url>",
        "proxy_url": "<generated proxy image url>",
        "width": 2048,
        "height": 2048,
        "content_type": "<generated image type>",
        "id": "<Discord image id>",
        "filename": "<generated image name>",
        "size": 7204115
      }
    ],
    "components": [
      {
        "type": 1,
        "components": [
          {
            "type": 2,
            "custom_id": "MJ::JOB::upsample::1::45e9bf62-5f3d-4bd6-a567-
958af28f15d3",
            "style": 2,
            "label": "U1"
          },
          {
            "type": 2,
            "custom_id": "MJ::JOB::upsample::2::45e9bf62-5f3d-4bd6-a567-
958af28f15d3",
            "style": 2,
            "label": "U2"
          },
          {
            "type": 2,
            "custom_id": "MJ::JOB::upsample::3::45e9bf62-5f3d-4bd6-a567-
958af28f15d3",
            "style": 2,
            "label": "U3"
          },
          {
            "type": 2,
            "custom_id": "MJ::JOB::upsample::4::45e9bf62-5f3d-4bd6-a567-
958af28f15d3",
            "style": 2,
            "label": "U4"
          }
        ]
      }
    ]
  }
]

```

```

        "type": 2,
        "custom_id": "MJ::JOB::reroll::0::45e9bf62-5f3d-4bd6-a567-
958af28f15d3::SOL0",
        "style": 2,
        "emoji": {
            "name": "🔄"
        }
    }
],
{
    "type": 1,
    "components": [
        {
            "type": 2,
            "custom_id": "MJ::JOB::variation::1::45e9bf62-5f3d-4bd6-a567-
958af28f15d3",
            "style": 2,
            "label": "V1"
        },
        {
            "type": 2,
            "custom_id": "MJ::JOB::variation::2::45e9bf62-5f3d-4bd6-a567-
958af28f15d3",
            "style": 2,
            "label": "V2"
        },
        {
            "type": 2,
            "custom_id": "MJ::JOB::variation::3::45e9bf62-5f3d-4bd6-a567-
958af28f15d3",
            "style": 2,
            "label": "V3"
        },
        {
            "type": 2,
            "custom_id": "MJ::JOB::variation::4::45e9bf62-5f3d-4bd6-a567-
958af28f15d3",
            "style": 2,
            "label": "V4"
        }
    ]
}
],
}
]

```

The Discord endpoint for [messages](#) returns the top 50 messages from `channel_id`, with the most recent returned first. Depending on Midjourney settings and servers load, it can take anywhere from approximately 20 seconds (fast mode) to 10 minutes (relax mode) to generate an image.

You can execute the above call in the loop with 10...20 secs delay between calls until `components` array is not empty. Then extract the generated image from `attachments[0].url` field.

In our next article, we will cover ways to detect Midjourney prompt moderation, the execution of Midjourney [upscale or create variations](#) and [enhance or modify](#) button commands.



Cross posted

- hashnode.dev
- dev.to
- medium.com
- habr.com