


# How To: API Gateway

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This article describes the process of deploying an AWS API Gateway within your VPC. There are a few key options that must be selected correctly when creating the API Gateway, so please follow the configuration steps completely.

 Detailed instructions on configuring an API Gateway is available at <https://docs.aws.amazon.com/apigateway/latest/developerguide/welcome.html>

## Step-by-step guide

From the AWS console, select the API Gateway Service

1. Click the "Create API" button
2. Choose the appropriate settings and in the "Endpoint Type" drop down, select "Private"
3. [Add a Resource Policy](#) to allow or restrict access to the API Gateway
4. Configure the components of your API Gateway and when complete, Deploy the API to make it callable
  - a. Select the API Gateway and under the "Resources" section, click the "Actions" drop down and select "Deploy API".
  - b. Choose the appropriate value from the "Deployment Stage" drop down menu and click the "Deploy" button
  - c. NOTE: You may receive the following alert or one similar which may safely be ignored:

 User does not have ListWebACLs and AssociateWebACL permissions for Web Application Firewall (WAFV2). Stage settings except for WAF can still be changed.

The deployment function verifies permissions that are made available on the API settings page and WAF is not a supported service at this time.

## Accessing the Deployed API Gateway

### Locating the API Gateway Endpoint DNS Name

The API Gateway Endpoint DNS Name can be found from the AWS console, select the VPC Service

1. Select Endpoints on the left navigation bar
2. Select the Endpoint with the Service Name "com.amazonaws.us-east-1.execute-api"
3. Under "Details", "DNS Names" select the DNS name that is in the format:

`{vpce-id}.execute-api.us-east-1.vpce.amazonaws.com`

After an API is deployed, it can be accessed via the API Gateway Endpoint Base URL in the project VPC using the *x-apigw-api-id* Header. The API Gateway Endpoint Base URL includes the

API Gateway Endpoint Base URL format includes the elements "https://" , the API Gateway Endpoint DNS Name, and the API deployment stage. Example format :


API Gateway ID is past in the header in the format:

```
x-apigw-api-id:{api-id}
```

## Example Request

Assuming you set up the AWS API Gateway Petstore "Example API" with the GET /pets and GET /pets/{petId} methods, and the API ID was **75rdhuhb3h** and the API Gateway VPC Endpoint DNS name was **vpce-00c91cf593abfc206-ps71ojqf.execute-api.us-east-1.vpce.amazonaws.com**, you could test the API via its VPCE ID by using the Host header in a cURL command:

```
curl -v https://vpce-00c91cf593abfc206-ps71ojqf.execute-api.us-east-1.vpce.amazonaws.com
```

 If a Resource Policy is updated, the API Gateway must be re-deployed for the changes to take effect (see documentation: <https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-resource-policies-create-attach.html>)

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