



## Google Maps API Setup

Shipping Costs Based on Distance for Magento 2

Configure your Google Maps API key for the [Shipping Costs Based on Distance](#) extension. This guide walks you through creating a Google Cloud project, enabling the required APIs, and setting up your credentials.

## Required API

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The extension requires the **Distance Matrix API** from Google Cloud Platform. This API calculates travel distances between your store location and customer addresses.

## Step 1: Create a Google Cloud Project

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1. Go to [Google Cloud Console](#)
2. Sign in with your Google account
3. Click the project dropdown at the top of the page
4. Click **New Project**
5. Enter a project name (e.g., "Magento Shipping")
6. Click **Create**
7. Wait for the project to be created, then select it

## Step 2: Enable Billing

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The Distance Matrix API requires a billing account. Google provides \$200 free credit per month.

1. Go to **Billing** in the left menu
2. Click **Link a billing account**
3. Follow the prompts to set up billing
4. Add a payment method

**Note:** You won't be charged unless you exceed the free tier limits.

## Step 3: Enable Distance Matrix API

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1. Go to **APIs & Services → Library**
2. Search for "Distance Matrix API"
3. Click on **Distance Matrix API**
4. Click **Enable**

## Step 4: Create API Key

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1. Go to **APIs & Services** → **Credentials**
2. Click + **Create Credentials**
3. Select **API key**
4. Your new API key will be displayed
5. Click **Copy** to copy the key
6. Click **Close**

## Step 5: Restrict Your API Key (Recommended)

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Protect your API key from unauthorized use:

1. In the Credentials page, click on your API key name
2. Under **Application restrictions**:
  - For testing: Select **None**
  - For production: Select **IP addresses** and add your server IP
3. Under **API restrictions**:
  - Select **Restrict key**
  - Check **Distance Matrix API**
4. Click **Save**

## Step 6: Configure in Magento

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1. Go to **Magmodules** → **Shipping Costs Based on Distance**
2. Under **General** → **API and Location Details**:
  - Paste your API key in the **API Key** field
  - Enter your **Store Address** (full address including country)
3. Click **Test Credentials** to verify the connection
4. Click **Save Config**

## API Pricing

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Google charges per request to the Distance Matrix API:

Tier	Price per 1,000 requests
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0 - 100,000	\$5.00
100,001 - 500,000	\$4.00
500,001+	Contact Google

**Monthly free credit:** \$200 (covers ~40,000 requests)

### When are requests made?

- When a customer enters/changes their shipping address at checkout
- When using the product page shipping estimator
- During selftest/credential testing

## Monitoring Usage

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Track your API usage to manage costs:

1. Go to **APIs & Services** → **Dashboard**
2. Click on **Distance Matrix API**
3. View the **Traffic** chart for request counts
4. Check **Errors** for any failed requests

### Set Up Billing Alerts

1. Go to **Billing** → **Budgets & alerts**
2. Click **Create Budget**
3. Set a budget amount
4. Configure alert thresholds (e.g., 50%, 90%, 100%)
5. Add notification email addresses

## Store Address Best Practices

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The store address you enter is the origin point for all distance calculations.

### Do:

- Use your warehouse or fulfillment center address
- Include full address: street, city, postal code, country
- Use the address format Google Maps recognizes

### Examples of Good Addresses:

123 Warehouse Street, Amsterdam, 1012 AB, Netherlands  
456 Distribution Center Dr, Rotterdam, 3011 BC, NL

#### **Don't:**

- Use PO Box addresses
- Use incomplete addresses
- Use addresses Google can't find

## **Testing Your Setup**

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After configuration, verify everything works:

### **1. Test Credentials Button**

- Click the button in configuration
- Should show success message

### **2. Selftest Command**

- Run: `bin/magento distancebasedshipping:selftest`
- Checks API connectivity and configuration

### **3. Checkout Test**

- Add a product to cart
- Go to checkout
- Enter a shipping address
- Verify distance-based shipping option appears

## **Troubleshooting API Issues**

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### **"API key not valid"**

- Verify the key is copied correctly (no extra spaces)
- Check the key is enabled in Google Cloud Console
- Ensure Distance Matrix API is enabled for the project

### **"This API project is not authorized"**

- Enable Distance Matrix API in your project
- Wait a few minutes after enabling for changes to propagate

## "You have exceeded your daily request quota"

- Check your usage in Google Cloud Console
- Upgrade your billing plan if needed
- The free tier resets monthly

## "REQUEST\_DENIED"

- Check API key restrictions aren't blocking your server
- Verify billing is set up correctly
- Ensure the API is enabled

## "ZERO\_RESULTS"

- Store address may not be recognized by Google
- Try a more specific address format
- Test the address in Google Maps first

## Need More Help?

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### Documentation:

- [All Help Articles](#) - Complete documentation overview

### Support:

- [Contact Support](#) - Get help from our team

### Google Resources:

- [Distance Matrix API Documentation](#)
- [Google Cloud Console](#)

For a complete overview of features and configuration options, see the Shipping Costs Based on Distance extension on [magmodules.eu](https://www.magmodules.eu)

# All articles for Shipping Costs Based on Distance

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## Installation

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1	<a href="#">Installation using Composer (recommended)</a>
2	<a href="#">Install through FTP and SSH</a>

## Configuration

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1	<a href="#">Quick Start Guide</a>
2	<a href="#">Configuration</a>

## Troubleshooting

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1	<a href="#">Troubleshooting</a>
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## Background

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<b>1</b>	<b><a href="#">Google Maps API Setup (current)</a></b>
2	<a href="#">Pricing Setup for Shipping Costs</a>

