

Use Dynamic Networks and PowerShell in Umbrella

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Introduction

This document describes how to update your IP address using PowerShell for dynamic networks in Cisco Umbrella.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on Cisco Umbrella.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Overview

This article is intended to serve as a general overview. A list of supported options for updating Umbrella with your dynamic IP is available [here](#).

You can use any scripted method to update your IP address using the API. This article demonstrates how PowerShell can be used.

Before you begin this process:

- Configure your dashboard as detailed [here](#).
- Take note of the name of your dynamic network in the Umbrella Dashboard under **Deployments > Networks**.

Use PowerShell to Update Dynamic IP (Hard Coded IP)

1. Determine the current external IP address for this network. This **must** be done from a machine on this network.

```
$MyIp = Resolve-DnsName myip.opendns.com | Select -ExpandProperty IPAddress
```

2. Get the credentials. Note that these must have full admin rights to your Dashboard.

```
$MyCredential = Get-Credential
```

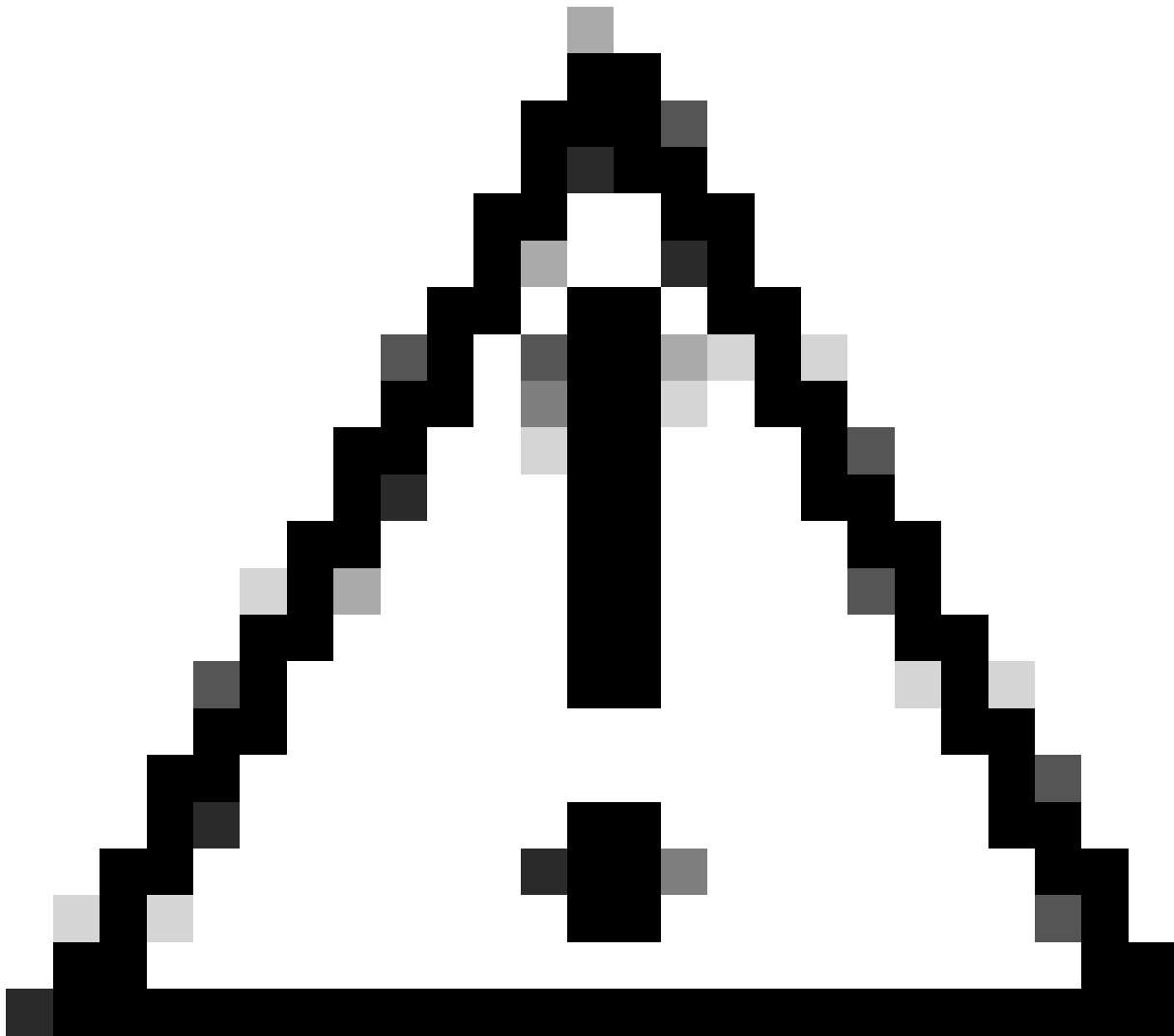
This opens a pop-up.

3. Enter your email address and password. You can then use these credentials to post an update using this command:

```
Invoke-RestMethod -Uri "https://updates.opendns.com/nic/update?hostname=biscuit&myip=$MyIP" -Credential $MyCredential
```

Method to Allow Scripting of Update to Dynamic IP

This method requires pre-storing the credentials for unattended use.



Caution: This method is NOT secure and is provided as an example only. This has been tested on PowerShell 5.1 only.

1. First, generate an obfuscated file containing the password. This needs to only be run once. Enter the email address and password of any full admin user of the dashboard.

```
(Get-Credential).Password | ConvertFrom-SecureString | Out-File "C:\MyPassword.txt"
```

2. You can then use this file in a complete script:

```
$UmbrellaNetwork = "your network name"
$User = "your admin email address"
$MyIp = Resolve-DnsName myip.opendns.com | Select -ExpandProperty IPAddress
$File = "C:\MyPassword.txt"
$MyCredential=New-Object -TypeName System.Management.Automation.PSCredential ` -ArgumentList $User, (Ge
Invoke-RestMethod -Uri "https://updates.opendns.com/nic/update?hostname=$UmbrellaNetwork&myip=$MyIp" -C
```

