

How to Enable Automatic SSL, HTTP2 and HTTP3 on a Vultr Load Balancer

Learn how to secure your website with automatic SSL, HTTP2, and HTTP3 on a Vultr Load Balancer. Step-by-step guide for optimal performance and security.

Contents

01	Introduction	3
02	Prerequisites	3
03	Enable AutoSSL	3
04	Enable HTTP2	5
05	Enable HTTP3	6
06	Conclusion	7

Introduction

A Vultr Load Balancer enables the distribution and forwarding of network traffic across multiple attached instances depending on your load balancing strategy. Automatic SSL enables trusted SSL certificates using your domain to access the Load Balancer. HTTP2 and HTTP3 protocols enable secure communications and exchange of data between your Load Balancer and site visitors with improved speed and efficiency.

This article explains how to enable automatic SSL, HTTP2, and HTTP3 on a Vultr Load Balancer.

Prerequisites

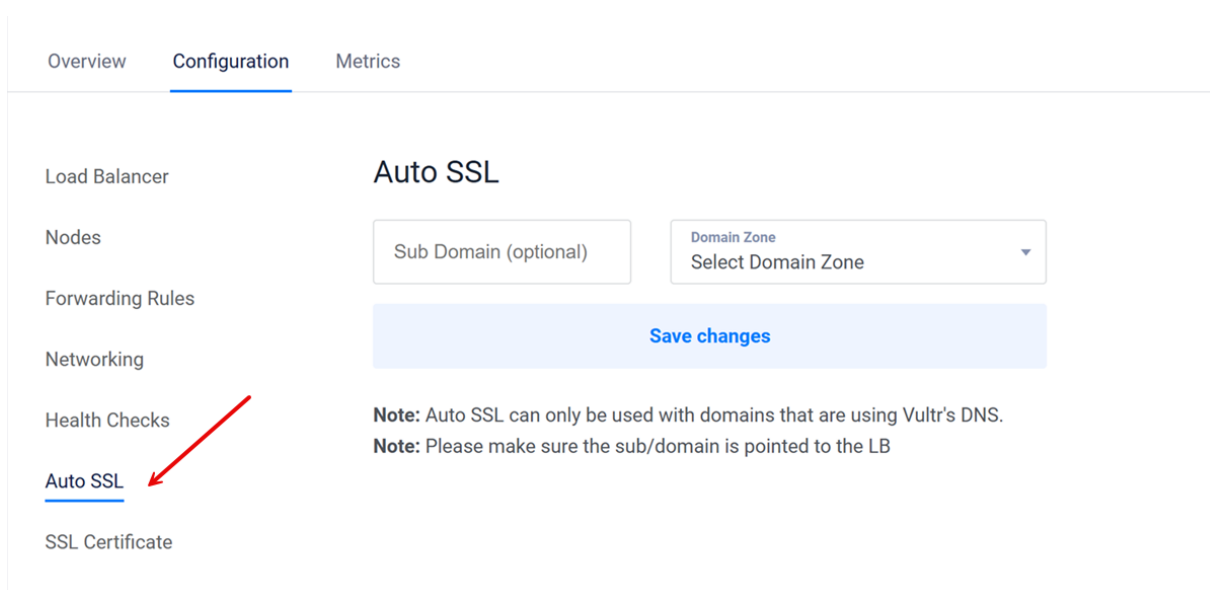
Before you begin:

- Deploy a [Vultr Load Balancer](#) and attach instances to enable forwarding of network traffic.
- Create a new [subdomain record that points to your Load Balancer's IP Address using Vultr DNS](#). For example, `loadbalancer.example.com`.

Enable AutoSSL

Automatic SSL requires an active domain linked to Vultr DNS in your account. Follow the steps below to enable automatic SSL on your Vultr Load Balancer.

1. Open your Vultr Load Balancer's management page.
2. Navigate to the **Configuration** tab and click **Auto SSL** on the left navigation menu.



3. Enter your subdomain name in the **Sub Domain (Optional)** field and click the **Domain Zone** drop-down to select your associated Vultr DNS domain.

Auto SSL

Sub Domain (optional)
loadbalancer

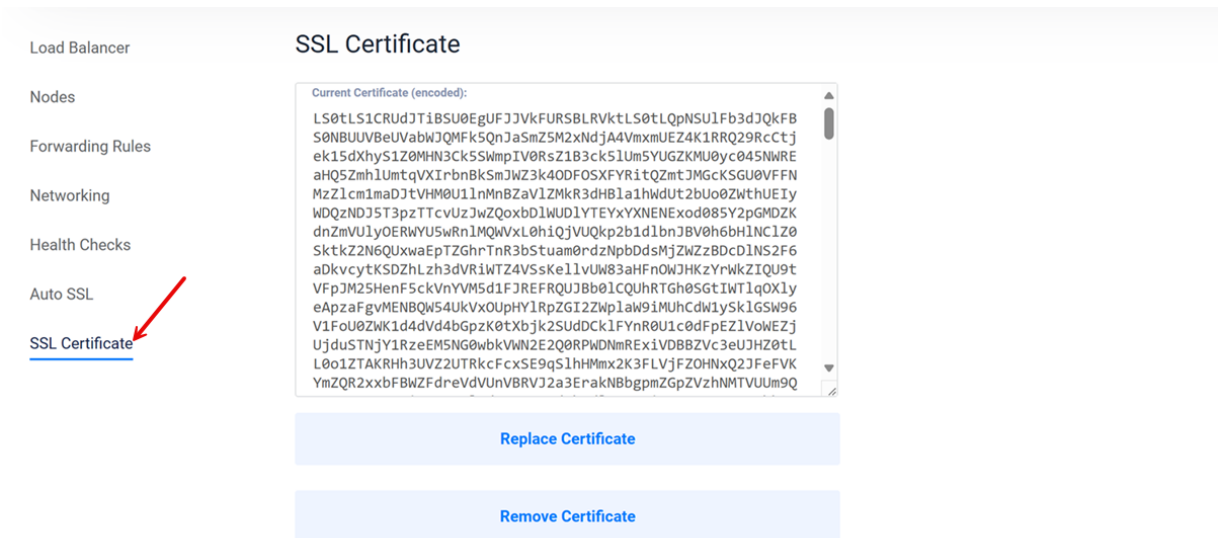
Domain Zone
example.com

Save changes

Note: Auto SSL can only be used with domains that are using Vultr's DNS.

Note: Please make sure the sub/domain is pointed to the LB

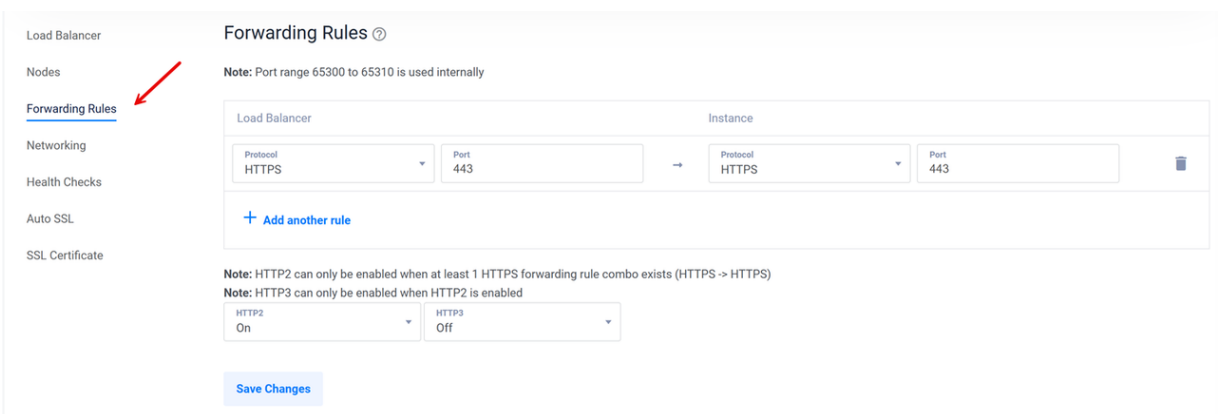
4. Click **Save Changes** to generate a new SSL certificate for your domain.
5. Verify a new prompt `An Auto SSL job is currently in progress. Please allow a few minutes for it to complete` displays on your management page and wait for the certificate generation process to complete.
6. Click **SSL Certificate** to verify the new certificate data added to your Load Balancer and ready to use with your subdomain.



Enable HTTP2

HTTP2 requires at least **1** active HTTPS forwarding rule on your Vultr Load Balancer. Follow the steps below to activate HTTPS rules and enable HTTP2 connections on your Vultr Load Balancer.

1. Open your Vultr Load Balancer's management page.
2. Click **Forwarding Rules** on the left navigation menu to set up new traffic rules.



3. Click the **Protocol** drop-down and select **HTTPS** from the list of options in the **Load Balancer** section.
4. Keep **443** as the **Port** value, then enable the same **HTTPS** protocol and port details in your instance section.

Forwarding Rules ⓘ

Note: Port range 65300 to 65310 is used internally

Load Balancer		Instance	
Protocol HTTPS	Port 443	→	Protocol HTTPS Port 443
+ Add another rule			

5. Click **Save Changes** to save the forwarding rule and enable HTTPS connections.
6. Click the **HTTP2** drop-down and select **ON** from the list of options.

Note: HTTP2 can only be enabled when at least 1 HTTPS forwarding rule combo exists (HTTPS -> HTTPS)

Note: HTTP3 can only be enabled when HTTP2 is enabled

HTTP2 On	1	HTTP3 Off
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[Save Changes](#) 2

7. Click **Save Changes** to enable HTTP2 on your Vultr Load Balancer.

Enable HTTP3

HTTP3 requires HTTP2 to be active on your Vultr Load Balancer to enable network connections. Follow the steps below to enable HTTP3 network connections on your Vultr Load Balancer.

1. Open your Vultr Load Balancer's management page.
2. Click **Forwarding Rules** on the left navigation menu.
3. Click the **HTTP3** drop-down and select **ON** from the list of options.

Note: HTTP2 can only be enabled when at least 1 HTTPS forwarding rule combo exists (HTTPS -> HTTPS)

Note: HTTP3 can only be enabled when HTTP2 is enabled

HTTP2 On	HTTP3 On
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Save Changes

4. Click **Save** to enable HTTP3 and apply changes on your Vultr Load Balancer.

Conclusion

You have enabled automatic SSL, HTTP2, and HTTP3 connections on your Vultr Load Balancer. You can use your existing subdomain to securely access your Load Balancer depending on your forwarding rules and load balancing methods.



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