

# Let?s Encrypt certificate management

• Parallels Remote Application Server 19.0

## **Description**

Parallels Remote Application Server v19 allows to use SSL certificates issued by Let's Encrypt. Let's Encrypt is a global Certificate Authority (CA). This organization is nonprofit and does not charge any fees for their certificates.

## **Prerequisites**

- Publicly accessible domain that resolves to the HALB or Secure Gateway directly or through third-party load balancers.
- Port 80 must be opened on the HALB and Secure Gateway for incoming Let's Encrypt requests.

## Configuration

To issue a new Let's Encrypt certificate:

- 1. In the Parallels RAS Console, navigate to **Farm > Certificates**.
- 2. Click the **Tasks** drop-down menu and select **Issue Let's Encrypt Certificate**.
- 3. In opened configuration wizard read Let's Encrypt EULA. Confirm your consent by checking I have read and accept Let's Encrypt EULA flag.
- 4. In **Expiration emails** field list specify email addresses that will receive notifications from Let's Encrypt.
- 5. <u>Optionally</u>, change the time when certificates are renewed automatically in the **Automatically renew** certificates before expiration field.
- 6. Click OK.
- 7. Click the [+] button to the left of the Tasks drop-down list and choose Issue Let's Encrypt certificate.
- 8. In the Issue Let's Encrypt certificate dialog, specify the following:
- Name: Name of the certificate.
- **Description**: Description of the certificate.
- Usage: HALB and/or Secure Gateway.
- Key size: Key size.
- Country code: Code of your country.

- Full state or province: Name of your state or province.
- City: Your city.
- Organization: Name of your organization.
- Organization unit: Name of your organization unit.
- E-mail: Email address of your organization.
- **Common name**: Publicly accessible domain name which can be resolved to the HALB or Secure Gateway directly or through 3rd partly load balancers .
- Alternative names: Publicly accessible domain names which can be resolved to the HALB or Secure Gateway directly or through 3rd partly load balancers.
- 9. Click Save.

To renew a Let's Encrypt certificate:

- 1. In the RAS Console, navigate to **Farm > Certificates**.
- 2. Right-click the Let's Encrypt certificate that you want to renew.
- 3. In the context menu, select **Control > Renew**.

To revoke a Let's Encrypt certificate:

- 1. In the RAS Console, navigate to **Farm > Certificates**.
- 2. Right-click the Let's Encrypt certificate that you want to revoke.
- 3. In the context menu, select **Control > Revoke**.
- 4. In the **Revoke Certificate** dialog, select the reason why you want to revoke the certificate.
- 5. Click Revoke.

#### **Known Issues and Limitations**

- Let's Encrypt provides only Domain Validation Certificates (DV).
- Let's Encrypt uses rate limits as described here: <a href="https://letsencrypt.org/docs/rate-limits/">https://letsencrypt.org/docs/rate-limits/</a>.

### **Documentation and References**

- Let's Encrypt home page <a href="https://letsencrypt.org/">https://letsencrypt.org/</a>
- Let's Encrypt How It Works <a href="https://letsencrypt.org/how-it-works/">https://letsencrypt.org/how-it-works/</a>
- Let's Encrypt port 80 best Practice <a href="https://letsencrypt.org/docs/allow-port-80/">https://letsencrypt.org/docs/allow-port-80/</a>

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