

Create a trusted SSL certificate through the REST API

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By default, ExtraHop appliances include a self-signed SSL certificate. However, you can improve security for your appliance by adding a trusted certificate signed by a certification authority (CA). You can create the certificate signing request to send to your CA through the ExtraHop REST API. After you receive the signed certificate, you can also add it to your ExtraHop appliance through the REST API.


Before you begin

- You must log into the ExtraHop appliance with an account that has [unlimited privileges](#) to generate an API key.
- You must have a valid API key to make changes through the REST API and complete the procedures below. (See [Generate an API key](#).)
- Familiarize yourself with the [ExtraHop REST API Guide](#) to learn how to navigate the ExtraHop REST API Explorer.

Create an SSL certificate signing request

To create a signed SSL certificate, you must send a certificate signing request to a trusted CA.

1. In a browser, navigate to the REST API Explorer.
The URL is the hostname or IP address of your ExtraHop Discover or Command appliance, followed by `/api/v1/explore/`. For example, if your hostname is `seattle-eda`, the URL is `https://seattle-eda/api/v1/explore/`.
2. Paste or type your API Key into the `api_key` field at the top of the page.
3. Click **ExtraHop** and then click **POST/extrahop/sslcert/signingrequest**.
4. In the Parameters section, click **Model Schema**, and then click in the box to automatically add the JSON schema to the body parameter text box.
5. In the body parameter text box, specify the certificate signing request fields.
 - a) In the `common_name` field, replace `string` with the fully qualified domain name of your ExtraHop appliance.
 - b) In the `subject_alternative_names` field, add one or more alternative domain names or IP addresses for your appliance.

 **Note:** The `subject_alternative_names` field is required. If your appliance has only one domain name, duplicate the value from the `common_name` field. You must include at least one subject alternative name with the type set to `dns`, but additional alternative names can have the type set to `ip` or `dns`.
 - c) Optional: In the `email_address` field, replace `string` with the email address of the certificate owner.
 - d) Optional: In the `organization_name` field, replace `string` with the registered legal name of your organization.
 - e) Optional: In the `country_code` field, replace `string` with the 2-character ISO country code of the country that your organization is located in.
 - f) Optional: In the `state_or_province_name` field, replace `string` with the name of the state or that your organization is located in.
 - g) Optional: In the `locality_name` field, replace `string` with the name of the city that your organization is located in.
 - h) Optional: In the `organizational_unit_name` field, replace `string` with the name of your department within your organization.

The Value section should look similar to the following example:

```
{
  "subject": {
    "common_name": "example.com",
    "email_address": "admin@example.com",
    "organization_name": "Example",
    "country_code": "US"
  },
  "subject_alternative_names": [
    {
      "name": "www.example.com",
      "type": "dns"
    }
  ]
}
```

- Click **Try it out!** to create the signing request.
The signing request appears in the pem field in the Response Body section.

Next steps

Send the signing request to your CA to create your signed SSL certificate.

Add a trusted SSL certificate to your ExtraHop appliance

You can add an SSL certificate signed by a trusted CA to your ExtraHop appliance through the REST API Explorer.

- In a browser, navigate to the REST API Explorer.
The URL is the hostname or IP address of your ExtraHop Discover or Command appliance, followed by `/api/v1/explore/`. For example, if your hostname is `seattle-eda`, the URL is `https://seattle-eda/api/v1/explore/`.
- Paste or type your API Key into the `api_key` field at the top of the page.
- Click **ExtraHop** and then click **PUT/extrahop/sslcert**.
- In the **Certificate and Key** field, paste the SSL certificate.

The certificate should look similar to the following text:

```
-----BEGIN CERTIFICATE-----
a008zvV4MlDhWX4e0VyvGAJx+9d4AqQB4Czy/P7z36CmHe2Y7PPdVSeWHNCQoJ0g
CnO42u2V9YKNFYRQejiJv8CxGVJKsdfV0iP0WnCVpZXkaBOYIrDvE5xn010WPULs
6qe3mCXsUK87i++mYuVDA1U0A5YVXRO2OOWIWy7P+MCU/cR/op3Jpekng2cxN4qD
FqGbtRpLdCuJ/xGWL1FFRHBg76+Tb0+pxgZhiCtHYXfMKIaoPmDwsAqEtLbizz1W
mbMig9hs4QNcJ+aMNSnTZpkbeBR4a2nkGnQoYvnFOXV/nWzvfHmI4ydSH9g4I8qt
4ArqFepInvm70n07FYAKL6Mdd1i+7ieo9AqckltVzzKFzkakHm04214wtsYmle94
4HqIJ7p7NH5maXxttXMzHF1ArbnjHWC10gIv8lAu+IvLJ8aiGAb3zqveNz6ZAZ5j
PGAUSP+dVYV/8VjvqhkIP/1jWzUHwzpd1HbcD8qOkAF41fnbv+2EXqFJ096JSSiU
rqeJpgNuH3Lbkt0KORaiLoGLMZKEKxF+3OpLVD7ox7NQh9pMdZ1B8tcTbTmsvD8T
3L2tMVZssqYOANcidtd17t72VW4hzQURT1me5tGWxpN6od/q6B+FIvRq/7Vq0UE1
c2AG/om5UN/Vj3pUjXzq/B1IWUS9TicRcKd15wrKEkPUGjK4w1R/87bj5HSn8nyd
lMCcOpLTokHj0B5+801ylNhVXNPlj3eY0n6OQOdClBqTDM0/4sB3XgeC/pjpleU3
3uot+wM/GoN/Dqb1LPt3BNpUQuCzSfmGSSOXiWELsEhz3ix/36a9eUWjflhmtPsW5
dne5Lf+G7cf+ebsRTb7R89GmgKzTpU11kAZKINAebkT6WrWW1jugpA0BcfANjs6o
mik4ZbY8d54UtA17evpr2+8UotIgvIrCbflG2DY8QOTCBYIFKJ3GZAedqRK9Sm
I2qdaB6QBczYNaVYSeCsBdHHw1+h7dBeqdUUwYKtmPW96/djj/6vJSXh9/UX/3c0
eqXG36w/lqJAYu8QtAydJsVC85IzqzikX0f0KE315Doginpg59yix9dHD2sxLb1
X39BRpLkZ9nvW6ke2YHU/VKBVixqSslukGoTUIcUtPJrtMQOwCi/EQQXbPK9a2pW
K51938h6OuLjNbDTFuxfhe4zITWHTgyAs2MNVr9+uDUiVJclX+CIPjhZzjyPqmD6
6uh8Sr3zndOMabqDquo69rMQyvc1F0xOUMVgUw1Rb8Y=
-----END CERTIFICATE-----
```



Note: If you want the certificate to be signed with your own private key, you can include your key after the SSL certificate, separated by a line break. However, we recommend that you do not specify your own key; by default, the appliance will sign the certificate with the private key on the appliance.

5. Click **Try it out!** to add the certificate.