

# Configurar CSR para CMS com OpenSSL para criptografia

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## Introduction

Este documento descreve como criar certificados para o Cisco Meeting Server (CMS) com Open Secure Sockets Layer (OpenSSL).

Contribuído por Moises Martinez, engenheiro do Cisco TAC.

## Prerequisites

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Abra SSL.
- Configuração do CMS.

## Componentes Utilizados

As informações neste documento são baseadas nos seguintes softwares:

- OpenSSL Light 1.1

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. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

## Configurar

Etapa 1. Faça o download do OpenSSL Light 1.1.

Etapa 2. Instale o OpenSSL no computador.

Etapa 3. Navegue até a pasta onde o SSL foi instalado. Geralmente, ele é instalado em **C:\Program Files\OpenSSL-Win64\bin**.

< Local Disk (C:) > Program Files > OpenSSL-Win64 > bin > Search bin

Name	Date modified	Type	Size
PEM	12/16/2021 4:59 PM	File folder	
CA.pl	3/25/2021 10:34 PM	PL File	8 KB
capi.dll	3/25/2021 10:34 PM	Application exten...	68 KB
dasync.dll	3/25/2021 10:34 PM	Application exten...	44 KB
libcrypto-1_1-x64.dll	3/25/2021 10:34 PM	Application exten...	3,331 KB
libssl-1_1-x64.dll	3/25/2021 10:34 PM	Application exten...	667 KB
openssl.exe	3/25/2021 10:34 PM	Application	531 KB
ossltest.dll	3/25/2021 10:34 PM	Application exten...	43 KB
padlock.dll	3/25/2021 10:34 PM	Application exten...	39 KB
progs.pl	3/25/2021 10:34 PM	PL File	6 KB
tsget.pl	3/25/2021 10:34 PM	PL File	7 KB

Etapa 4. Abra o **Bloco de Notas** e insira as informações necessárias para a solicitação de assinatura de certificado (CSR), como mostrado no próximo exemplo:

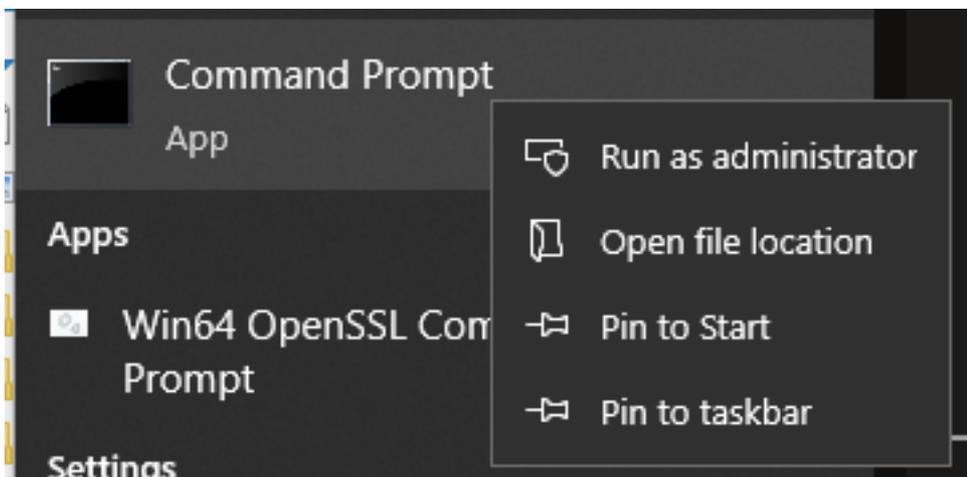
```
[req] distinguished_name = req_distinguished_name req_extensions = v3_req prompt = no
[req_distinguished_name] C = US ST = California L = San Jose O = TAC OU = IT CN =
cms.tac.cisco.com [v3_req] extendedKeyUsage = serverAuth, clientAuth subjectAltName = @alt_names
[alt_names] DNS.1 = webbridge3.tac.cisco.com DNS.2 = webadmin.tac.cisco.com DNS.3 =
xmpp.tac.cisco.com
```

Etapa 5. Quando as informações são inseridas para o CSR, esse arquivo é salvo como **tac.conf** no próximo caminho: **C:\Program Files\OpenSSL-Win64\bin**.

Local Disk (C:) > Program Files > OpenSSL-Win64 > bin Search bin

Name	Date modified	Type	Size
PEM	12/16/2021 4:59 PM	File folder	
CA.pl	3/25/2021 10:34 PM	PL File	8 KB
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padlock.dll	3/25/2021 10:34 PM	Application exten...	39 KB
progs.pl	3/25/2021 10:34 PM	PL File	6 KB
tsget.pl	3/25/2021 10:34 PM	PL File	7 KB
tac.conf	12/16/2021 5:07 PM	CONF File	1 KB

Etapa 6. Abra o **Command Prompt** no PC e selecione para ser **executado como administrador**.



Passo 7. Navegue até o caminho onde o arquivo está armazenado através do prompt de comando, insira o comando **openssl.exe** e selecione enter.

```
C:\Program Files\OpenSSL-Win64\bin>openssl.exe
```

Etapa 8. Execute o próximo comando: **req -new -newkey rsa:4096 -nodes -keyout cms.key -out cms.csr -config tac.conf**.

```
C:\Program Files\OpenSSL-Win64\bin>openssl.exe
OpenSSL> req -new -newkey rsa:4096 -nodes -keyout cms.key -out cms.csr -config tac.conf
```

```
C:\Program Files\OpenSSL-Win64\bin>openssl.exe
OpenSSL> req -new -newkey rsa:4096 -nodes -keyout cms.key -out cms.csr -config tac.conf
Generating a RSA private key
.....++++
writing new private key to 'cms.key'
-----
```

## Verificar

Se nenhum erro for exibido, dois novos arquivos serão gerados na mesma pasta:

- cms.key
- cms.csr



Name	Date modified	Type	Size
PEM	12/16/2021 4:59 PM	File folder	
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padlock.dll	3/25/2021 10:34 PM	Application exten...	39 KB
progs.pl	3/25/2021 10:34 PM	PL File	6 KB
tac.conf	12/16/2021 5:07 PM	CONF File	1 KB
tsget.pl	3/25/2021 10:34 PM	PL File	7 KB
cms.csr	12/16/2021 5:25 PM	CSR File	2 KB
cms.key	12/16/2021 5:25 PM	KEY File	4 KB

Este novo arquivo **cms.csr** pode ser assinado por uma autoridade de certificação (CA).