

# Como emitir e gerar o certificate request

## Gerar o certificado

Criar Diretório: `mkdir ~/domain.com.ssl`

Gerar RSA: `openssl genrsa -out ~/domain.com.ssl/domain.com.key 2048`

Gerar CSR: `openssl req -new -sha256 -key ~/domain.com.ssl/domain.com.key -out ~/domain.com.ssl/domain.com.csr`

## Exemplo

Criar Diretório: `mkdir ~/jcr2.ifsp.edu.br.ssl`

Gerar RSA: `openssl genrsa -out ~/jcr2.ifsp.edu.br.ssl/jcr2.ifsp.edu.br.key 2048`

Gerar CSR:

`openssl req -new -sha256 -key ~/jcr2.ifsp.edu.br.ssl/jcr2.ifsp.edu.br.key -out ~/jcr2.ifsp.edu.br.ssl/jcr2.ifsp.edu.br.csr`

As seguintes perguntas serão feitas (respostas abaixo):

You are about to be asked to enter information that will be incorporated into your certificate request.

What you are about to enter is what is called a Distinguished Name or a DN.

There are quite a few fields but you can leave some blank

For some fields there will be a default value,

If you enter '.', the field will be left blank.

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Country Name (2 letter code) [AU]:BR

State or Province Name (full name) [Some-State]:SP

Locality Name (eg, city) []:Sao Paulo

Organization Name (eg, company) [Internet Widgits Pty Ltd]:INSTITUTO FEDERAL DE EDUCACAO, CIENCIA E TECNOLOGIA DE SAO PAULO

Organizational Unit Name (eg, section) []:

Common Name (e.g. server FQDN or YOUR name) []:jcr2.ifsp.edu.br

Email Address []:

Please enter the following 'extra' attributes to be sent with your certificate request

A challenge password []:

An optional company name []:

Após gerar e enviar o CSR para a Reitoria, você deverá baixar os novos certificados **intermediate** e **root** a partir do [LINK](#)

Para fins de registro, segue abaixo o conteúdo dos arquivos:

### intermediate.pem

```
-----BEGIN CERTIFICATE-----
MIIEETjCCAzagAwIBAgINAe5fIh38YjvUMzqFVzANBgkqhkiG9w0BAQsFADBMMSAwHgYDVQQLExdH
bG9iYWxTaWduIFJvb3QgQ0EgLSBSMzETMBEGA1UEChMKR2xvYmFsU2lnbjETMBEGA1UEAxMKR2xv
YmFsU2lnbjAeFw0xODExMjEwMDAwMDBaFw0yODExMjEwMDAwMDBaMFACzAJBgNVBAYTAKJFRkxw
FwYDVQQKEXBHbG9iYWxTaWduIG52LXNhMSYwJAYDVQQDEx1HbG9iYWxTaWduIFJTSBPViBTU0wg
Q0EgMjAxODCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAKdaydUMGCEAI9WXd+uu3Vxo
a2uPUGATeoHLL+60imGUSyZ59gSnKvuk2la77qCk8HuKf1UfR5NhDW5xUTolJAgvj0H3idaSz6+z
pz8w7bXfIa7+9UQX/dhj2S/TgVprX9NHsKzyqzskeU8fxy7quRU6fBhMab01IFkJXinDY+YuRluq
lJBjDrnw9UqhCS98NE3QvADFB1V5Bs6i0BDxSEPouVq1lVW9MdIbPYa+oewNEtssmSStr8JvA+Z6
cLVwzM0nLKWmjsIYPJLJLnNvBhBwk0Cqo8VS++XFBdZpaFwGue5RieGKDkFNm5KQConpFmvv73W+
eka440eKHRwup08CAwEAaAOCAskwggELMA4GA1UdDwEB/wQEAwIBhjASBgNVHRMBAf8ECDAGAQH/
AgEAMB0GA1UdDgQWBBT473/yzXhnqN5vjySNiPGHAWKz6zAfBgNVHSMEGDAWgBSP8Et/qC5FJK5N
UPpjmove4t0bvDA+BggrBgEFBQcBAQQyMDAwLgYIKwYBBQUHMAGGIh0dHA6Ly9vY3NwMi5nbG9i
YWxzawduLmNvbS9yb290cjMwNgYDVROfBC8wLTArOCmgJ4YlaHR0cDovL2Nybc5nbG9iYWxzawdu
LmNvbS9yb290LXIzLmNybdBHBG9NVHSAEQDA+MDwGBFUdIAAwNDAYBggrBgEFBQcCARYmaHR0cHM6
Ly93d3cuZ2xvYmFsc2lnbi5jb20vcmlvbnNpdG9yeS8wDQYJKoZIhvcNAQELBQADggEBAJmQyC1f
QorUC2bbmANzEdSIhlIoU4r7rd/9c446ZwTbw1MUcBQJfMPg+NccmBqixD7b6QDjynCy8SIwIVbb
0615XoFYC20UgDX1b10d65pHBf9ZjQCxQNqQmJYaumxtf4z1s4DfjGRzNpZ5eWl06r/4ngGPoJVp
jemEuunl1Ig423g7mNA2eymw0lIYkN5SQwCuaiFIFJ6GlazhgDEwfpolu4usBC0mmQDo8dIm7A9+
04orkjgTHY+GzYZSR+Y0fFukAj6KYXwidlNaIFMzhrISqHKvoflShx8xpfywgVcvzfT03PYkz6fi
NJBonf6q8amaEsybWMBdQKwWIX7eSPY=
-----END CERTIFICATE-----
```

### gs\_root.pem

-----BEGIN CERTIFICATE-----

MIETjCCAzagAwIBAgINAe5fFp3/lzUrZGXWajANBgkqhkiG9w0BAQsFADBXMQswCQYDVQQGEwJC  
RTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudi1zYTEQMA4GA1UECzMHU9vdCBDQTEbMBkGA1UEAxMS  
R2xvYmFsU2lnbiBSb290IENBMB4XDTE4MDkxOTAwMDAwMFoXDTE4MDEyODEyMDAwMFowTDEgMB4G  
A1UECzMXR2xvYmFsU2lnbiBSb290IENBIC0gUjMxEzARBgNVBAoTCkdsb2JhbFNpZ24xEzARBgNV  
BAMTCkdsb2JhbFNpZ24wggeiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQMjXaQeQZ4Ihb1  
wIO2hMoonv0FdhHFrYhy/EYCQ8eyip0EXyTLLkvhYIJG4VKrDIFHcGzdZNHr9SyjD4I9DCuul9e2  
FIYQebs7E4B3jAjhSdJqYi8fXvqWaN+JJ5U4nwbXPsnLJlKnc96wy0kmDoMVxu9bi9IEYmpJpij2  
aTv2y8gokeWdimFXN6x0FNx04Druci8unPvQu7/1PQDhBjPogiuuU6Y6Fn0M3UE0IDrAtKeh6bJP  
kC4yY0lXy7kEkmho5TgmYHWyn3f/kRTvriBJ/K1AFUjRAjFhGV64l++td7dkmnq/X8ET75ti+wls  
4FRpFqkD2m7pg5NxdS3pYIXAgMBAAGjggEiMIIBHjA0BgNVHQ8BAf8EBAMCAQYwDwYDVR0TAQH/  
BAUwAwEB/zAdBgNVHQ4EFgQUj/BLf6guRSSuTVD6Y5qL3uLdG7wwHwYDVR0jBBgwFoAUYYHtmGkUN  
l8qJUC99BM00qP/8/UsWPQYIKwYBBQUHAQEEMTAvmc0GCCsGAQUFBzABhiFodHRwOi8vb2NzcC5n  
bG9iYWxzawduLmNvbS9yb290c2EwMwYDVR0fBCwwKjAooCagJIIYiaHR0cDovL2Nybc5nbG9iYWxz  
awduLmNvbS9yb290LmNybdBHBGNVHSAEQDA+MDwGBFUdIAAwNDAYBggrBgEFBQcCARYmaHR0cHM6  
Ly93d3cuZ2xvYmFsc2lnbi5jb20vcmlvbnNpdG9yeS8wDQYJKoZIhvcNAQELBQADggEBACNw6c/i  
vvVZrPRC8RDM6rNPzq5ZBfyYgZLSPFAiAYXof6r0V88xjPy847dHx0+zBpgmYILrMf8fpqHKqV9  
D6ZX7qw7aoXW3r1AY/itpsiIsBL89kHfDwmXHjjqU5++BfQ+6t0fUBJ2vgmLwgtIfR4uUfaNU90r  
H0Abio7tfftPeVZwXwzTjhuzp3ANNyXlava4BJrHED0xcd+7cJiW0x37XMiwor1hk0IreoTbv3Y  
/kIvuX1erRjvLJDKPSerJpSZdcfL03v3yKzTr1EhkluefSuFFT90y1HonoM0Fm8b50b0I7355KKL  
0jlrqnkckSziYSQtjipIcJDEHsXo4HA=

-----END CERTIFICATE-----

**A seção abaixo foi mantida por motivos de histórico, caso os certificados intermediário e root acima não funcionem corretamente para você, você pode tentar estes abaixo.**

Após gerar e enviar o CSR para a Reitoria, você deverá baixar o novo certificado **intermediate** e **root** no site do ICPEdu: [LINK](#)

Para facilitar, segue os links de download tirados do site:

**"gs\_root.pem"** [LINK DE DOWNLOAD](#)

**"intermediate.pem"** [LINK DE DOWNLOAD](#)

Certificados emitidos a partir de **27/11/2020** devem obrigatoriamente utilizar o novo "**intermediate.pem**" citado acima.

Para fins de registro, segue abaixo o conteúdo dos arquivos:

## gs\_root.pem

```
-----BEGIN CERTIFICATE-----
MIIDXzCCakegAwIBAgILBAAAAAABIvTCKIwDQYJKoZIhvcNAQELBQAwtDEgMB4G
A1UECzMxR2xvYmFsU2lnbiBSb290IENBIC0gUjMxEzARBgNVBAoTCkdsb2JhbFNp
Z24xEzARBgNVBAMTCkdsb2JhbFNpZ24wHhcNMDkwMzE4MTAwMDAwWhcNMjkwMzE4
MTAwMDAwWjBMMSAwHgYDVQLExdHbG9iYWxTaWduIFJvb3QgQ0EgLSBSMzETMBEG
A1UEChMKR2xvYmFsU2lnbjETMBEGA1UEAxMKR2xvYmFsU2lnbjCCASIwDQYJKoZI
hvcNAQEBBQADggEPADCCAQoCggEBAMwldpB5BngiFvXAg7aEyiie/QV2EcWtiHL8
RgJDx7KKnQRfJMSuS+FggkbhUqsMgUdwbN1k0ev1LKMPgj0MK66X17YUhhB5uzsT
gHeMCOFJ0mpiLx9e+pZo34knLTifBtc+yccsmWQ1z3rDI6SY0gxXG71uL0gRgykmm
KPZp0/bLyCiR5Z2KYVc3rHQU3HTg0u5yLy6c+9C7v/U9A0EGM+iCK65TpjoWc4zd
QQ4g0sC0p6Hpsk+QLjJg6VfLuQSSaGjL0CZgdbKfd/+RF0+uIEn8rUAVSNECMWEZ
XriX7613t2Saer9fwRPvm2L7DWzgVGkWqQPabumDk3F2xmmFghcCAwEAAaNCMEAw
DgYDVVR0PAQH/BAQDAgEGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVr00BBYEFi/wS3+o
LkUkrk1Q+m0ai97i3Ru8MA0GCSqGSIb3DQEBCwUAA4IBAQBLOnVAKr+yAzv95ZU
RUm7lgAJQayzE4aGKAczymvmdLm6AC2upArT9fHxD4q/c2dKg8dEe3jgr25sbwMp
jjm5Rc005LlXbKr8EpbsU8Yt5CRsuZRj+9xTaGdWPo04zzUhw8lo/s7awl0qzJCK
6fBdRoyV3XpYKBovHd7NADdBj+1EbDDTKJd+82cEHhXXipa0095MJ6RMG3NzdVQX
mcIfeg7jLQitChws/zYrVQ4PkX4268NXSb7hLi18YIvDQVETI5309zJrLAGomecs
Mx860yXShkD00yyGeMlhlXs67ttVb9+E7gUJTb0o2HL002JQZR7rkpeDMdmztcpH
WD9f
-----END CERTIFICATE-----
```

## intermediate.pem - à partir de 27/11/2020

```
-----BEGIN CERTIFICATE-----
MIIE+DCCA+CgAwIBAgIQd70NrBPiWl2vSwHjGuic4DANBgkqhkiG9w0BAQsFADBQ
MQswCQYDVQQGEwJCRTZMBCGA1UEChMQR2xvYmFsU2lnbiBudi1zYTEmMCQGA1UE
AxMdVHJ1c3RlZCBSb290IFRmUyBDQSBTSEEyNTYgRzMwHhcNMDAwMDAwWhcNMjkw
MzE4MTAwMDAwWjBkMQswCQYDVQQGEwJCRTZMBCGA1UEChMQR2xvYmFsU2lnbiBudi
1zYTEmMCQGA1UEAxMZWkZSB0YWNpb25hbCBkZSBFbnNpbm8gZSBQZXNxdWlzYSAtIFJOUDEiMCAGA1UEAxMZUk5Q
IElDUEVkdSBPViBTU0wgQ0EgMjAxOTCCASIwDQYJKoZIhvcNAQEBBQADggEPADCC
AQoCggEBAXy0aVSFMG4AXgSL5oDnUPqls7zPa1Fuik4KqTfSTaz1Q7uc0Ll++mg
y+a0QsNCgunY3fXTwWmKMZABj4+K50CzyNIuaAZdG7VN4+euIWrHS6MDycpR31R/
oz7Rle0bXv7mvEUBXoP/UIicYuM3jerIVCg6MsfvA9Zf96wW+Ay5wEmmGwhmNLST
ULwKFLYzrxNoirAfgSFq0veSE4tjrpFuIuZYj/E587tpT14sPkLK8iuQmbfe32Jd
sZ9kUKGA0jTnaFH3S1xaKAYsHHl0Alcond2TDneTAdU1B6fvfKHc8lWcGL1luzag
Xy8otoMTjLLAIMusMeGLKchPwUvHyrccAwEAAaOCAbgwggG0MA4GA1UdDwEB/wQE
```

AwIBhjAdBgNVHSUEFjAUBgggBgEgFBQcDAQYIKwYBBQUHAIwEgYDVR0TAQH/BAgwBgEB/wIBADAdBgNVHQ4EFgQUqzDHBByhLy3q0W/5haffUerKFm0gwHwYDVR0jBBgwFoAU3k/X3Seu1X9YgeEsR6wj t8Z7V+8wgZMGCCsGAQUFBwEBBII GGMIGMDkGCCsGAQUFBzABhi1odHRwOi8vb2NzcC5nbG9iYWxzawduLmNvbS90cnVzdHJvb3R0bHNzaGEyZzMwRgYIKwYBBQUHMAKG0mh0dHA6Ly9zZW1cmUuZ2xvYmFsc2lnbi5jb20vY2FjZXJ0L3RydXN0cm9vdHRsc3NoYTJnMy5jcnQwQQYDVR0fBDow0DA2oDSgMoYwahr0cDovL2Nybc5nbG9iYWxzawduLmNvbS90cnVzdHJvb3R0bHNzaGEyZzMwY3JsMFYGA1UdIARPMEOwQQYJKwYBBAGgMEUMDQwMgYIKwYBBQUHAgEwJmh0dHBzOi8vd3d3Lmdsb2JhbHNpZ24uY29tL3JlcG9zaXRvcnkVMAgGBmeBDAECAjANBgkqhkiG9w0BAQsFAA0CAQEAAof/6KIQsQwsczUZDJrQQD1RpJMQdfh2QqWQ7SXdR1zxKiSgMQvvJan2LhxfHW8v4gViMDQayixxTF6P6rrj58NU8lBHVWSoRtWCvnlDit1908xyYvecmxAuBTJhpFlDycyGBn41Ds7cAUkuYQSySESa0m10P1aHKA1LyL95FUNbCyx7PACfMdbvIqGvzspH/W4N8he97btZqBsPCj lINMhtNV1fjMB80wVbGRBtDCEURg7V0AckZGeJej00/Hws0NdW76g4YhIEsnmQXJRSND6mTWpaQv2fRVlK4Z0x4Xtoxy9iHifx41Q834r5XErkk8c0U6H4mRQy1hLr+0bog==

----- END CERTIFICATE-----

----- BEGIN CERTIFICATE-----

MIIEqTCCA5GgAwIBAgIQd70NdT8uGWAb1U4KakRGdjANBgkqhkiG9w0BAQsFADBMMSAwHgYDVQQLExdHbG9iYWxzawduIFJvb3QgQ0EgLSBSMzETMBEGA1UEChMKR2xvYmFsU2lnbjETMBEGA1UEAxMKR2xvYmFsU2lnbjAeFw0yMDA3MDUwMDAwMDBaFw0yNzA0MjUxMTAwMDBaMFACzAJBgNVBAYTAKJFMRkwFwYDVQQKExBHbG9iYWxzawduIG52LXNhMSYwJAYDVQQDEx1UcnVzdGVkIFJvb3QgVEXTIENBIFNIQTI1NiBHMzCCASIwDQYJKoZIhvcNAQEBBQAdggEPADCCAQoCggEBAXRe6ZnoR+4xcoJL/S5vx1DqMMe4LCFB+zMMOCi5stfYUfK6bBgilYKilk42F85z5o1eLKUfj4ycGfnaUvLdSsjwaP1HMLobr2xBMiH9+q1KgyWui1v8KRv+IhdPaxRojgLLM4j lPLlHvqvorcmGHQl x0wi2VM8Grqf+cdkhYXHGTBRvBLhAofAhgoWTVzrwTZ6MtAPaCATJ+gcSVQHw9LLXM7xVQukmUwMMpp1mixfKbmIv+DETaMk90+kt5R4nPLt7M8lUS1CaezdibKvvnl4Whc7nXzRC/NNLtuWs+6i154Yj4a9JB19oGBRInMm673GanbB1r8IuZoR0KdGakCAwEAAa0CAYEwgG9MA4GA1UdDwEB/wQEAAwIBhjAdBgNVHSUEFjAUBgggBgEgFBQcDAQYIKwYBBQUHAIwDwYDVR0TAQH/BAUwAwEB/zAdBgNVHQ4EFgQU3k/X3Seu1X9YgeEsR6wj t8Z7V+8wHwYDVR0jBBgwFoAUj/BLf6guRSSuTVD6Y5qL3uLdG7wwegYIKwYBBQUHAQEebjBsMC0GCCsGAQUFBzABhiFodHRwOi8vb2NzcC5nbG9iYWxzawduLmNvbS9yb290cjMwOwYIKwYBBQUHMAKGL2h0dHA6Ly9zZW1cmUuZ2xvYmFsc2lnbi5jb20vY2FjZXJ0L3RydXN0cm9vdHRsc3NoYTJnMy5jcnQwQQYDVR0fBDow0DA2oDSgMoYwahr0cDovL2Nybc5nbG9iYWxzawduLmNvbS90cnVzdHJvb3R0bHNzaGEyZzMwY3JsMFYGA1UdIARPMEOwQQYJKwYBBAGgMEUMDQwMgYIKwYBBQUHAgEwJmh0dHBzOi8vd3d3Lmdsb2JhbHNpZ24uY29tL3JlcG9zaXRvcnkVMA0GCSqGSIb3DQEBCwUAA4IBAQA80VBjtYaLZ+QvyJta++B4k8BDklbV6XCiJaapjYbZoHssAMd4o+GDr24R0M0mm83sWldo4g0uNlEwhSVyezr42EJ2QBLZEJSZwHnMpfpddc2mlZ5gMN6PECZrz4W+t2xmSg0YQiluiHIiDAoSm4/eppe8/SLCLJTYk/mgF5FfnmNDeOhDE+e836s83RyaVzLxTb13ZFDCw2WwglSbrXheWg

ydDeE0mWtqeQjlrTmVX/UwFutWPc4W+v8xZ9KT3vcpG4PZd3ZH0GnckNjBcFiAi  
dXm4Aymp9y9XHFAsTfHPH3UMmR7WIVc+iboT/14tlK9n2oASLiJjPaACGnpU  
-----END CERTIFICATE-----

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Revision #15

Created 19 September 2019 17:55:25 by Luiz Paulo Ferreira Rodrigues

Updated 19 July 2021 16:50:24 by Rafael Manochio