

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.

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-----
MIIEIjCCAzagAwIBAgINAe5fIh38YjvUMzqFVzANBgkqhkiG9w0BAQsFADBMMSAwHgYDVQQLExdH
bG9iYWxTaWduIFJvb3QgQ0EgLSBSMzETMBEGA1UEChMKR2xvYmFsU2lnbjETMBEGA1UEAxMKR2xv
YmFsU2lnbjAeFw0xODExMjEwMDAwMDBaFw0yODExMjEwMDAwMDBaMFACzAJBgNVBAYTAKJFMRkw
FwYDVQQKEXBHbG9iYWxTaWduIG52LXNhMSYwJAYDVQQDEx1HbG9iYWxTaWduIFJTSBPViBTU0wg
Q0EgMjAxODCCASIdQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAKdaydUMGCEAI9WXd+uu3Vxo
a2uPUGATeoHLL+60imGUSyZ59gSnKvuk2la77qCk8HuKf1UfR5NhDW5xUTolJAgvj0H3idaSz6+z
pz8w7bXfIa7+9UQX/dhj2S/TgVprX9NHsKzyqzskeU8fxy7quRU6fBhMab01IFkJXinDY+YuRluq
lJBjDrnw9UqhCS98NE3QvADFBVLV5Bs6i0BDxSEPouVq1lVW9MdIbPYa+oewNEtssmSSr8JvA+Z6
cLVwzM0nLKWmjsIYPJLJLnNvBhBwk0Cqo8VS++XFBdZpaFwGue5RieGKdKfNm5KQConpFmvv73W+
eka440eKHRwup08CAwEAaAOCAskwggELMA4GA1UdDwEB/wQEAwIBhjASBgNVHRMBAf8ECDAGAQH/
AgEAMB0GA1UdDgQWBBT473/yzXhnqN5vjySNiPGHAWKz6zAFBgNVHSMEGDAWgBSP8Et/qC5FJK5N
UPpjmove4t0bvDA+BgggBgEFBQcBAQQyMDAwLgYIKwYBBQUHMAAGImh0dHA6Ly9vY3NwMi5nbG9i
YWxzawduLmNvbS9yb290cjMwNgYDVROfBC8wLTArCmgJ4YlaHR0cDovL2Nybc5nbG9iYWxzawdu
LmNvbS9yb290LXIzLmNybdBHBG9NVHSAEQDA+MDwGBFUdIAAwNDAYBggrBgEFBQcCARYmaHR0cHM6
Ly93d3cuZ2xvYmFsU2lnbi5jb20vcvVwb3NpdG9yeS8wDQYJKoZIhvcNAQELBQADggEBAJmQyC1f
QorUC2bbmANzEdSiHlIoU4r7rd/9c446ZwTbw1MUcBQJfMPg+NccmBqixD7b6QDjynCy8SiwIVbb
0615XoFYC20UgDX1b10d65pHBf9ZjQCxQNqMjYaumxtf4z1s4DfjGRzNpZ5eWl06r/4ngGPoJVp
jemEuunl1Ig423g7mNA2eymw0lIYkN5SQwCuaiFIFJ6GlazhgDEwfpolu4usBC0mmQDo8dIm7A9+
04orkjgTHY+GzYZSR+Y0fFukAj6KYXwidlNaLFMzhriSqHKvoflShx8xpfywgVcvzfT03PYkz6fi
NJBonf6q8amaEsybwMbDqKwIX7eSPY=
-----END CERTIFICATE-----
```

gs_root.pem

```
-----BEGIN CERTIFICATE-----
MIIEIjCCAzagAwIBAgINAe5fFp3/lzUrZGXWajANBgkqhkiG9w0BAQsFADBXMQswCQYDVQQGEwJC
RTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudilzYTEQMA4GA1UECzMHU9vdCBDQTEbMBkGA1UEAxMS
```

```
R2xvYmFsU2lnbiBSb290IENBMB4XDTE4MDkxOTAwMDAwMFoXDTI4MDEyODEyMDAwMFowTDEgMB4G
A1UECgMXR2xvYmFsU2lnbiBSb290IENBIC0gUjMxZzARBgNVBAoTCkdsb2JhbFNPZ24xZzARBgNV
BAMTCkdsb2JhbFNPZ24wggeiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQMjXaQeQZ4Ihb1
wIO2hMoonv0FdhHFrYhy/EYCQ8eyip0EXyTLLkvhYIJG4VKrDIFHcGzdZNhr9SyjD4I9DCuul9e2
FIYQebs7E4B3jAjhSdJqYi8fXvqWaN+JJ5U4nwbXPsnLJlKnc96wy0kmDoMVxu9bi9IEYmpJpij2
aTv2y8gokeWdimFXN6x0FNx04Druci8unPvQu7/1PQDhBjPogiuuU6Y6Fn0M3UE0IDrAtKeh6bJP
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4FRpFqkD2m7pg5NxdSzhYIXAgMBAAGjggEiMIIBHjA0BgNVHQ8BAf8EBAMCAQYwDwYDVR0TAQH/
BAUwAwEB/zAdBgNVHQ4EFgQUj/BLf6guRSSuTVD6Y5qL3uLdG7wwHwYDVR0jBBgwFoAUYYHtmGkUN
l8qJUC99BM00qP/8/UswPQYIKwYBBQUHAQEEMTAvmC0GCCsGAQUFBzABhiFodHRwOi8vb2NzcC5n
bG9iYWxzawduLmNvbS9yb290cjEwMwYDVR0fBCwwKjAooCagJIYiaHR0cDovL2Nybc5nbG9iYWxz
awduLmNvbS9yb290LmNybdBHBGNVHSAEQDA+MDwGBFUdIAAwNDAYBggrBgEFBQcCARYmaHR0cHM6
Ly93d3cuZ2xvYmFsc2lnbi5jb20vcMvwb3NpdG9yeS8wDQYJKoZIhvcNAQELBQADggEBACNw6c/i
vvVZrpRCb8RDM6rNPzq5ZBfyYgZLSPFAiAYXof6r0V88xjPy847dHx0+zBpgmYILrMf8fpqHKqV9
D6ZX7qw7aoXW3r1AY/itpsiIsBL89kHfDwmXHjjqU5++BfQ+6t0fUBJ2vgmLwgtIFR4uUfaNU90r
H0Abio7tfftPeVZwXwzTjhuzp3ANNyuXlava4BJrHED0xcd+7cJiW0x37XMiwor1hk0IreoTbv3Y
/kIvuXlerRjvlJDKPSerJpSZdcfL03v3yKzTr1EhklUEfSuFFT90y1HonoM0Fm8b50b0I7355KKL
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-----
MIIDXzCCAkegAwIBAgILBAAAAAABIVhTCKIwDQYJKoZIhvcNAQELBQAwtDEgMB4G
A1UECxMXR2xvYmFsU2lnb3B290IENBIC0gUjMxMzEzARBgNVBAoTCKdsb2JhbFNP
Z24xMzEzARBgNVBAMTCkdsb2JhbFNPZ24wHhcNMMDkwMzE4MTAwMDAwWhcNMjkwMzE4
MTAwMDAwWjBMMSAwHgYDVQQLExdHbG9iYWxTaWduIFJvb3QgQ0EgLSBSMzETMBEG
A1UEChMKR2xvYmFsU2lnb3B2ETMBEGA1UEAxMKR2xvYmFsU2lnb3B2CCASIwDQYJKoZI
hvcNAQEBBQADggEPADCCAQoCggEBAMwldpB5BngiFvXAg7aEyiie/QV2EcWtiHL8
RgJDx7KKnQrfJMsuS+FggkbhUqsMgUdwbN1k0ev1LKMPgj0MK66X17YUhhB5uzsT
gHeMC0FJ0mpiLx9e+pZo34knltiFbt+ycsmWQ1z3rDI6SY0gxXG71uL0gRgykmm
KPZp0/bLyCiR5Z2KYVc3rHQU3HTg0u5yLy6c+9C7v/U9A0EGM+iCK65TpjowC4zd
QQ4g0sC0p6Hpsk+QLjJg6VfLuQSSaGj10CZgdbKfd/+RF0+uIEn8rUAVSNECMWEZ
XriX7613t2Saer9fwRPvm2L7DWzgVGkWqQPabumDk3F2xmmFghcCAwEAAaNCMEAw
DgYDVR0PAAQH/BAQDAgEGMA8GA1UdEwEB/wQFMAMBAf8wHQYDVR00BBYEFi/wS3+o
LkUkrk1Q+m0ai97i3Ru8MA0GCSqGSIb3DQEBCwUAA4IBAQBLLQnVAUKr+yAzv95ZU
RUM7lgAJQayzE4aGKAcyzvmvmdLm6AC2upArT9fHxD4q/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+CgAwIBAgIQd70NrBpiwI2vSwHjGuic4DANBgkqhkiG9w0BAQsFADBO
MQswCQYDVQQGEwJCRTEZMBcGA1UEChMQR2xvYmFsU2lnbiBudilzYTEmMCQGA1UE
AxMdVHJ1c3RlZCZBSb290IFRMRUyBDQSBTSEEyNTYgRzRwMwHhcnMjAwNzA1MDAwMDAw
WhcnMjYwNTE1MDAwMDAwWjBkMQswCQYDVQQGEwJCUCjExMC8GA1UEChMoUmVkZSB0
YWNpb25hbCBkZSBfbnNpbm8gZSBZQ0ZlZS90YSA0IFJ0UDEiMCA1UEAxMZUk5Q
IElDUeVkdSBPViBTU0wgQ0EgMjAxOTCCASiWdQYJKoZIhvcNAQEBBQADggEPADCC
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sZ9kUKgA0jTnaFH3S1xaKAYsHHl0Alcond2TDneTAdU1B6fvfKHC8lWcGL1luzag
Xy8otoMTjLLAIMusMeGLKchPwUvHyrCawEAAa0CAbgwggG0MA4GA1UdDwEB/wQE
AwIBhjAdBgNVHSUEfjAUBGgrBgEFBQcDAQYIKwYBBQUHAWIwEgYDVROTAQH/BAGw

BgEB/wIBADAdBgNVHQ4EFgQUQzDHByhLy3q0W/5ha f fUerKFm0gwHwYDVR0jBBgw
FoAU3k/X3Seu1X9YgeEsR6wj t8Z7V+8wgZMGCCsGAQUFBwEBBIBGMI GDMdKGCCsG
AQUFBzABhi lodHRw0i8vb2Nzc5nbG9iYwxaWduLmNvbS90cnVzdHJvb3R0bHNz
aGEyZzMwRgYIKwYBBQUHMAKG0mh0dHA6Ly9zZWN1cmUuZ2xvYmFsc2lnbi5jb20v
Y2FjZXJ0L3RydXN0cm9vdHRsc3NoYTJnMy5jcnQwQQYDVR0fBDow0DA2oDSgMoYw
aHR0cDovL2Nybc5nbG9iYwxaWduLmNvbS90cnVzdHJvb3R0bHNzaGEyZzM uY3Js
MFYGA1UdIARPME0wQQYJKwYBBAGgMgEUMDQwMgYIKwYBBQUHAgEWJmh0dHBz0i8v
d3d3Lmdsb2JhbHNpZ24uY29tL3JlcG9zaXRvcnk vMAGBmeBDAECAjANBgkqhkiG
9w0BAQsFAA0CAQEAO f/6KIQsQwsczUZDJrQQD1RpJMqdfh2QqWQ7SXdr1zxKiSgM
QvvJan2LhxfHW8v4gViMDQayixxTF6P6rrj58NU8lBHVWSoRtWCvnlDit1908xyY
vecmxAuBTJhpFlDycyGBn41Dsg7cAUKuYQSySESa0m10P1aHKA1LyL95FUNbCyx7
PACfMdbvIqGvzspH/WV4N8he97btZqBsPCj l INMhtNV1fjMB80wVbGRBtDCEURg7
V0ACKZGeJej00/Hws0NdW76g4YhIEsnmQXJRSND6mTpaQv2fRVlK4Z0x4Xtoxy9
iHifx41Q834r5XErkk8c0U6H4mRQy1hLr+0bog==

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

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

MIIEqTCCA5GgAwIBAgIQd70NdT8uGWAblU4KAkRGdjANBgkqhkiG9w0BAQsFADBM
MSAwHgYDVQQLExdHbG9iYwxtaWduIFJvb3QgQ0EgLSBSMzETMBEGA1UEChMKR2xv
YmFsuZ2lnbjETMBEGA1UEAxMKR2xvYmFsuZ2lnbjAeFw0yMDA3MDUwMDAwMDBaFw0y
NzA0MjUxMTAwMDBaMFAXCzAJBgNVBAYTAkJMRkwFwYDVQQKEExBHbG9iYwxtaWdu
IG52LXNhMSYwJAYDVQQDEx1UcnVzdGVkIFJvb3QgVEXtIENBIFNIQTl1NiBHMzCC
ASIWdQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAKXRe6ZnoR+4xcoJL/S5vx1D
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AwEAAa0CAYEwgGf9MA4GA1UdDwEB/wQEAWIBhjAdBgNVHSUEFjAUBGgrBgEFBQcD
AQYIKwYBBQUHAwIwDwYDVR0TAQH/BAUwAwEB/zAdBgNVHQ4EFgQU3k/X3Seu1X9Y
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KwYBBQUHAQEebjBsMC0GCCsGAQUFBzABhiFodHRw0i8vb2Nzc5nbG9iYwxaWdu
LmNvbS9yb290cjMwOwYIKwYBBQUHMAKGL2h0dHA6Ly9zZWN1cmUuZ2xvYmFsc2ln
bi5jb20vY2FjZXJ0L3Jvb3QtcmuY3J0MDYGA1UdHwQvMC0wK6ApoCeGJWh0dHA6
Ly9jcmwvZ2xvYmFsc2lnbi5jb20vc m9vdC1yMy5jcmwwRwYDVR0gBEAwPjA8BgRV
HSAAMDQwMgYIKwYBBQUHAgEWJmh0dHBz0i8vd3d3Lmdsb2JhbHNpZ24uY29tL3JlcG9zaXRvcnk vMA0GCSqGSIb3DQEB CwUAA4IBAQA W80VBjtYaLZ+QvyJta++B4k8B
DklbV6XCiJaapjYbZoHssAMd4o+GDr24R0M0mm83sWldo4g0uNlEwhSVyezr42EJ
2QBLZEJSZwHnMp fPddc2mLZ5gMN6PECZrz4W+t2xmSg0YQiluIHIiDAoSm4/eppe
8/SLCLJTYk/mgF5FfnmNDe0hDE+e836s83RyaVzLxTb13ZfDSCw2WWglSbrXheWg
ydDeE0mWtqeQj l rTmVX/UwFutWPc4W+v8xZ9KT3vcpg4Pzd3ZH0Gnck eNjBcFiAi

dXm4Aymp9y9XHFASTfHPH3UMmR7WIVc+iboT/14t1K9n2oASLiJjPaACGnpU

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

Revision #15

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

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