

Connecting to our services

Here you can read how to connect your backend or mobile application to our sandbox, beta and production environments.

- [Connecting to server-to-server APIs \(fe. Sandbox\)](#)
- [Exposing APIs for us](#)

Connecting to server-to-server APIs (fe. Sandbox)

Environments

We have three environments available for our partners.

- Sandbox - this is shared environment, available as demonstration. You can get access before signing a deal with us - [Contact Sales](#) to get access.
- Beta - This is environment you're going to use during integration with our services.
- Production - This is live environment.

Authorization - create Your certificate

Our APIs are secured with Mutual TLS Authentication. You will need certificate signed by us in order to connect. To get a certificate please send us an Certificate Signing Request (CSR). We will sign it and return a valid certificate in a response.

CSR should have following structure:

For Sandbox

Example CSR generation command for Sandbox

Remember to replace parameters and file names with your own data.

Commas cannot be used in parameters.

Minimum key length is RSA 2048.

```
openssl req -new -newkey rsa:4096 -keyout companyName.key -out companyName.csr -nodes -subj  
'/C=US/ST=Florida/L=Miami/O=SomeCompany/OU=main/CN=V-SBX-companyName-  
applicationName/emailAddress=example@user.com'
```

Field	Example value
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Common Name (CN)	<div>V-SBX-CompanyName-ApplicationName</div> <p>Company Name should be replaced with name of your company. Application Name should be replaced with name of application you're developing.</p>
Organization (O)	Name of your company.
Organizational Unit (OU)	<div>main</div> - do not enter any other value.
Locality (L)	City where your organization is located.
State/County/Region (ST)	State/County where your organization is located.
Country (C)	Two-letter country code where organization is located (ISO 3166-1 alpha-2).
Email Address	Email to be contacted in case of forced renewal of the change.

For Beta/Production

You will need separate certificates for Beta and Production environments, however they can be generated in exactly the same way.

Field	Example value
Common Name (CN)	<div>V-CompanyName-ApplicationName</div> <p>Company Name should be replaced with name of your company. Application Name should be replaced with name of application you're developing.</p>
Organization (O)	Name of your company.
Organizational Unit (OU)	<div>main</div> - do not enter any other value.
Locality (L)	City where your organization is located.
State/County/Region (ST)	State/County where your organization is located.
Country (C)	Two-letter country code where organization is located (ISO 3166-1 alpha-2).
Email Address	Email to be contacted in case of forced renewal.

Example CSR generation command for Beta and Production

Remember to replace parameters and file names with your own data.

Commas cannot be used in parameters.

Minimum key length is RSA 2048.

```
openssl req -new -newkey rsa:4096 -keyout companyName.key -out companyName.csr -nodes -subj  
'/C=US/ST=Florida/L=Miami/O=SomeCompany/OU=main/CN=V-companyName-  
applicationName/emailAddress=example@user.com'
```

Exposing APIs for us

Securing your APIs

In some cases we may need to connect to your backend (You expose API for us). In such event our preferred method of securing access is Mutual TLS authentication, where you accept certificates signed by our Certificate Authority(CA). In order to make it work you'll need to:

- Import our CA certificates to your trust store - they are listed below.
- Communicate to us how you expect us to fill fields in certificate.

Main infrastructure

Beta Root CA certificate

```
-----BEGIN CERTIFICATE-----
MIIFvzCCA6egAwIBAgIUx/1asAZz8Bj1hfeDjixPX3/8s78wDQYJKoZIhvcNAQEL
BQAwbzELMAkGA1UEBhMCUEwxZDASBgNVBAGMC01hem93aWVja211MQ8wDQYDVQQH
DAZXZXJzYXcxETAPBgNVBAoMCFZlcmVzdHJvMRQwEgYDVQQQLDAtQUkVQQULExORF
VjeQMA4GA1UEAwWHUFJFUEFJRDAeFw0yMTA2MjkwOTMxNTdaFw00MTA2MjQwOTMx
NTdaMG8xCzAJBgNVBAYTAlBMMRQwEgYDVQQIDAtNYXpvd211Y2tpZTEPMA0GA1UE
BwwGV2Fyc2F3MREwDwYDVQQKDAhWZXJlc3RybzeUMBIGA1UECwwLUFJFUEFJR9E
RVYxEDA0BgNVBAMMB1BSRVBBSUQwggiMA0GCSqGSIb3DQEBAQUAA4ICDwAwggIK
AoICAQCT3E0b0vNnaDsUFvGKFXCgEiIb5Rqz2HAwvfZTJEdcrFPDphwv5YeX/qmF
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cMAei9YQ7HAvvcZsPfdmoJSWAO+AVRHBx/RBeHh8wUsBW3t0HJEoBSBCNkIDGeHR
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hhgfmUCHGuZyTdmGJWmJCdaOzPHTzrqQ6FGi j21+MiISpVJg6Q9/Kg5VIZm+NIAZ
Birs7fQR/vm0YjWYAsp5dRaCi2Dt+e/O3QY80FfNDR8oQtCklW4ZTus9RMxBxvfk
u/tlFnHlPzvPwEGSStJurtK9f5LL0UoaGN0hx/xvCd5oThnukKbXXfAqDLUOyelt
6vxpeFobhghlcl4M+xGiZE0cmQIFU4lDrTU+Cd50ENgkCYwlMbqmVZ/9XpY4B6Fd
Go6s06+brlCO6tHwwPl9Z+toUifyDomu/b9mtPt5ATXFE2/OnubTmwXpLiV9NIPv
mX7GXXKf5RX5PsSN5mCjrmlyUtzknRW+JPrKMosqlx2ln1DPIXA608XIdwIBP5/2Q
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BgNVHQ4EFgQUjs64XWuJqXY9PZWPjIkSx4z/EwkWHwYDVR0jBBgwFoAUjs64XWuJ
qXY9PZWPjIkSx4z/EwkWHwYDVR0TAQH/BAUwAwEB/zANBgkqhkiG9w0BAQsFAAOC
AgEARu75eBHNWZo5jElhf+vxswAoATkJfNSItyN+S7uLX/KaJq25Zhr2KKcxMm02b
qvc3cwcYy0m6k7pcae84VrEuZ4coDwnkYtSbtAPEPLS0YznCpZizbNm/rAIQnjpM
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+pBht8YHXk9MryVO3I8Iyi4Dseiahav5HQ4fTEfhg289nlosgVIpgf/oKkpWKrkS
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x/sRhfeMlvRVV63eLzcg+Vpsols2zAGnwyvAX2x+s6ughCLB8Sno22xT03aNhv+g
BpZCD18dJkZDaQk46eQFvswSSQHHXV5g44ZuRe09By5ev4=
-----END CERTIFICATE-----
```

Prod Root CA certificate

```

-----BEGIN CERTIFICATE-----
MIIFpTCCA42gAwIBAgIUKA6at+c8TdPPozmrKkybHacq7LgWDQYJKoZIhvcNAQEL
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DAZXYXJzYXcxETAPBgNVBAoMCFZlcmVzdHJvMQswCQYDVQQLDAJEQzEMMAoGA1UE
AwwDQVBjMB4XDTE1MDQxMjE0MTM1N1oXDTQxMDQwNzE0MTM1N1owYjELMAkGA1UE
BhMCUExwFzFDbG9uZDQyYDQyYDQyYDQyYDQyYDQyYDQyYDQyYDQyYDQyYDQyYDQy
BgNVBAoMCFZlcmVzdHJvMQswCQYDVQQLDAJEQzEMMAoGA1UEAwwDQVBjMBMIICjAN
BgkqhkiG9w0BAQEEFAAOCAg8AMIICCgKCAgEAgBtkowILbrt3w4n9j8VLP21zGQn3E
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4f7/MB8GA1UdIwQYMBaAFK7R2ygy+7rX+ADXQALnMg354f7/MA8GA1UdEwEB/wQF
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QRUC488t6bhwlunKj2/hh9wMxWtMjaspEOc99BJZPXwe0v3Cw2nJzv5riIYjgbA5
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Tlm++HuiHa5Q
-----END CERTIFICATE-----

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Asia region

Due to on-soil regulations, Verestro has launched some of it's services on servers localized in India. If you're using this infrastructure, use certificates listed below. If you're not sure, which certificates to use contact your Verestro's sales representative or project manager.

Asia Beta Root CA certificate

-----BEGIN CERTIFICATE-----
MIIFzZCCA7egAwIBAgIUXTpYRZICP6fIQGWAumtbpI89dkwDQYJKoZIhvcNAQEL
BQAwdzELMAKGA1UEBhMCUExFwFDASBgNVBAgMCM01hem93aWVja2llMREwDwYDVQQH
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HKM4G6u52jt8qbeobhuE4rFMr7xvr14GVFCNOJ8Gceb2PVAekOwjIudFEQxCus9c
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BdCL/CiwX5Rv6GOL4l1pvo7ZsqSi0HpEiUbDorIxFOY2OGm7sfHBtNiZBZkt16+8
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DQYJKoZIhvcNAQELBQAAdggIBAB31ff6N2pj9DDXuZJKfm3cLN/BwmOjbkxRtPN7Y
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YgNYYGYsY3gyxmCYZi8siU/WNYKVsk4AAx44LNMaHcaXki6xwv2dHDkwPpz0bxji
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xtKjiU7RUcmbQevlXl9aCj0e00DpGUp/3EzGIGqi2b5MyXc9rVkyZf1KjeZ8PW0D
AkHoST0CDMXVRESVccPu/tScYmgy4Vh7Vs73DEgwiqsTdsFJXZ4Ve5i4xAxaXbx7
IXJd
-----END CERTIFICATE-----
```

Asia Prod Root CA certificate

```
-----BEGIN CERTIFICATE-----
MIIF0TCCA7mgAwIBAgIUahZ36TmUOvRmFB+tyxuGjdYS/qQwDQYJKoZIhvcNAQEL
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/EzTLF+lNbRL8ZaxilJsWj4CIOE7n+BaVIsQypLD7toOytpgTG5h52vSl+tcVuKb
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ULm8D28nfLZjQ0e5ualyPBjKpbt0jwx5SYLFxxkXSsk5QLOBCXYEP0c3wYmk5TPn
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BFASD6NPT9QelAql6ibz8vhIunP3//wqCkiiBrNdeN1Ybdd3pfii4+mUCUcbeSaP
bd0mlBV9OLyLDpyZ/w6ws/NfclJcqu4ltuu2UxAnHiahXViswS4Lp8OC0I+rhviV
j5Umxio=
-----END CERTIFICATE-----
```