

# Connecting to our services and sandbox

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. First letter up case, all other letters lower case. No spaces and special characters.</p> <p>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.

## 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. First letter up case, all other letters lower case. No spaces and special characters.</p> <p>Application Name should be replaced with name of application you're developing.</p> <p><b>Do not use different CNs for Beta &amp; Prod</b></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'
```

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# 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
BwwGV2Fyc2F3MREwDwYDVQQKDAhWZXJlc3RybzeUMBIGA1UECwwLUFJFUEFJRFB9E
RVYxEDA0BgNVBAMMB1BSRVBBSUQwggiMA0GCSqGSIb3DQEBAQUAA4ICDwAwggIK
AoICAQCT3E0b0vNnaDsUFvGKFXCgEiIb5Rqz2HAwvfZTJEdcrFPDphwv5YeX/qmF
moPtCmQsJAyxxBOKC07qpFbL1kBNMIK0MJbu jnPvMu2yGLcJzwpr jgN+RBta+MA
cMAei9YQ7HAvvcZsPfdmoJSWAO+AVRHBx/RBeHh8wUsBW3t0HJEoBSBCNkIDGeHR
nqMLsdix/s44C+B8uHsrC3HxPP0tcIvO0lMsxC8aaSj2r8++spq87MtOP7HdqNqh
hhgfmUCHGuZyTdmGJWmJCdaOzPHTzrqQ6FGi j21+MiISpVJg6Q9/Kg5VIZm+NIAZ
Birs7fQR/vm0YjWYAsp5dRaCi2Dt+e/O3QY80FfNDR8oQtCk1W4ZTus9RMxBxvfk
u/t1FnHlPzvPwEGSStJurtK9f5LL0UoaGN0hx/xvCd5oThnukKbXXfAqDLUOyelt
6vxpeFobhghlcl4M+xGiZE0cmQIFU4lDrTU+Cd50ENgkCYwlMbqmVZ/9XpY4B6Fd
Go6s06+brlCO6tHwwPl9Z+toUifyDomu/b9mtPt5ATXFE2/OnubTmwXpLiV9NIPv
mX7GXXKf5RX5PsSN5mCjrmlyUtzknRW+JPrKMosqlx2ln1DPIXA608XIdwIBP5/2Q
5cPaYS0cYqW/F0hiStH3bve5Yf7h942Fv5D39J4/zuj47WUQIDAQABolMwUTAd
BgNVHQ4EFgQUjs64XWuJqXY9PZWPjIkSx4z/EwkWHwYDVR0jBBgwFoAUjs64XWuJ
qXY9PZWPjIkSx4z/EwkWHwYDVR0TAAQH/BAUwAwEB/zANBgkqhkiG9w0BAQsFAAOC
AgEARu75eBHNWZo5jElhf+vxswAoATkJfNSItyN+S7uLX/KaJq25Zhr2KKcxMm02b
qvc3cwcYy0m6k7pcae84VrEuZ4coDwnkYtSbtAPEPLS0YznCpZizbNm/rAIQnjpM
Oz5iCu+pnxlm46XYKKhQ+CHifngN7+nnJNomY9ytHiQEGkEoxY/L8ERqEEGmWgC5
+pBht8YHXk9MryVO3I8Iyi4Dseiahav5HQ4fTEfhg289nlosgVIpgf/oKkpWKrkS
E+wkAYCRglrkBiXaeZTpdhnMnaQ4YN+XPkVDP8PlpLlmpD4qfPHuHyQO5/4Yly2K
WICvvPl/zgnxgskdLgpg+R0SL5clOhf2cMMn0EuaeB++GwdoVNppkWu4nnTPUgN
8Kwao5kwxU0P9Fr0lnt3GO9aRC5PJ06kFwaWh9lrjTp4/MuGZgaLSsq6f1S4rgKX
bZ8WCqyGPpNVYs8DoTqxJXeIltBwgqRT2FbOs5BGJU2haQov+/+t61zV245XRl3z
LEQUPnn7f1U2oeQQcgDArvl+Cb0li3AmrYkEYdtmdEsEjyfg50ZuYfy4qJqx3kiY
x/sRhfeMlvRVV63eLzcg+Vpsols2zAGnwyvAX2x+s6ughCLB8Sno22xT03aNhv+g
BpZCD18dJkZDaQk46eQFvswSSQHHXV5g44ZuRe09By5ev4=
-----END CERTIFICATE-----
```

### Prod Root CA certificate

```

-----BEGIN CERTIFICATE-----
MIIFpTCCA42gAwIBAgIUKA6at+c8TdPPOzmrKkybHacq7LgWDQYJKoZIhvcNAQEL
BQAwYjELMAkGA1UEBhMCUExwFzFASBgNVBAGMC01hem93aWVja211MQ8wDQYDVQQH
DAZXYYXJzYXcxETAPBgNVBAoMCFZlcmVzdHJvMQswCQYDVQQLDAJEQzEMMAoGA1UE
AwwDQVBjMB4XDTE1MDQxMjE0MTM1N1oXDTQxMDQwNzE0MTM1N1owYjELMAkGA1UE
BhMCUExwFzFASBgNVBAGMC01hem93aWVja211MQ8wDQYDVQQLDAZXYYXJzYXcxETAP
BgNVBAoMCFZlcmVzdHJvMQswCQYDVQQLDAJEQzEMMAoGA1UEAwwDQVBjMBJMIICIjAN
BgkqhkiG9w0BAQEEFAAOCAg8AMIICCgKCAgEAgBtkowILbrt3w4nJ8VLP21zGQn3E
5EIOboQIBrCPSBNQs5kBWLiTcxHkqcaHoAzLrL++18IwxJgmW14GrI9ZOmLJN
+gY/odsraYvYCKl93NeWuyoHJ/L7OcyuF29qCYo7Jeq3tdDVBY6JKRF06x9SNprH
tqNFS+4UyYGVTFEQIFcDXo4bopnsODWL/K7h9Ii7BxmHiyMWADkerAIwOPB6vXM3
RlyNp4SQExmZ/XrZGowbBiUf+gKE0XYWIJ52s6uWi3NVb+I6ndpIsA+ZBT475sSa
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tJF74gPv3rPg4jivc9XnE44ix53MB7sBA3JwO/JIEx3ioyPbwIwLMev65eLS8m5w
6KtHc2Qd+7NGFQYAcSrZ2M2kIwHga007RcIM0e5hzNNQRCON8EVOyEAetfe2HnsR
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KZTH1LkRo/64nNkCAwEAAaNTMFEWQHqYDVR0OBBYEfK7R2ygy+7rX+ADXQALnMg35
4f7/MB8GA1UdIwQYMBaAFK7R2ygy+7rX+ADXQALnMg354f7/MA8GA1UdEwEB/wQF
MAMBAf8wDQYJKoZIhvcNAQELBQADggIBAGYxIOj6w9kID96WsedZKIGAi84WfD5
QRUC488t6bhw1uNKj2/hh9wMxWtMJaspEOc99BJZPXwe0v3Cw2nJzv5r1iYjgbA5
mx57yIdliFLCCKGQ9WUsEE8rGKks104yhF20aLpQw7YuRxnExWNugT9nqDvhzZMe
ddQxZsfUG5taIKsqpB1nLARZX12PtDwEse+MsXc0w6ilunjOphR9qbpqYDAmRgmC
CWdhLnG7qwQBd+9Q1fxy431YrMy8e82KmJC9Xcz3bzGIPfHApoteHhZCORtnXEwBZ
X1TXEGTu9hsAy/izr4J+1X5NAQsw+k7PdDXCinJJFCUX4jWouew6DK5osuQLdCed
FTD/5/r1kUQ84LiMkZpfYJ2EFiZ1L0yHnX41EqVdMe5edTzB00PoNUvwilMqKwMm
JuH+q2qplKbUGZTsRbrN4IEU/WEM6zrAyBSDLiK/3vKuW3vbt843xxEkxkV2K+hS
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Sfz3XA/4lceVybhG0wam12lA35NKMg62lf1DcmtnSf/lHXf2gT+bp08nLwrd5f7+
amz6GxH49L5lynVIsq0P/MG1H6afALmWkN0zb/bmLSApIbTZ3g+yCF9p8QZn+BMr
Tlm++HuiHa5Q
-----END CERTIFICATE-----

```

## 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-----
MIIFzzCCA7egAwIBAgIUXTpYRZICP6fIQGWaNumtbPI89dkwDQYJKoZIhvcNAQEL
BQAwZDZELMAkGA1UEBhMCUExwFzF0ZDABBgNVBAMC01hem93aWVja211MREwDwYDVQ
DAhXYXJZemF3YTEUMBIGA1UECgwLVmVyZXN0cm8gU0ExCzAJBgNVBAMaklUMRww
GgYDVQDDBNQV9WRVJFU1RST19ERVZfQVdTMB4XDTEyMTAxODE0MDU0OVoXDTEy
MDgyNjE0MDU0OVowdZELMAkGA1UEBhMCUExwFzF0ZDABBgNVBAMC01hem93aWVja211
MREwDwYDVQDDAhXYXJZemF3YTEUMBIGA1UECgwLVmVyZXN0cm8gU0ExCzAJBgNV
BAMaklUMRwwGgYDVQDDBNQV9WRVJFU1RST19ERVZfQVdTMIICtjANBgkqhkiG
9w0BAQEFAAOCAQ8AMIICCgKAgBEA1SgefEbab+VhdvmHXHhyfWl6hxK72fuJvxV0
q5eJZ74U7+DVCNJU5j7WSYGxoB1vH41jqd9luZkKcwXFW5MhKucYHmzetKML14KMc
VWR2nOtV0oRmPTA0EhfQzP4pC0GRB0Gtg+ygKJ/oJ3S7zwnzZOTVfVusePeIOPKM
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JDiCg8Ydr8RapkhTzcuHPPdhwL2I9yrZJnkK+Mz1BXAKOtOTMTteo15I4LlOaVN
r9xKcYQrQnKnexurB1tMWDMLpZnYJGzWjWB4n29EJ44Kx4wd/YvvS3da7zbjYLG
HeEd20dDyMtYkYpqkJe0ElGpVDiQCEoAAfpXcAmTSGd3uzilyRf3/+3zRuBC82m3
xGCozITXevHF6GDNmtVInTl9uemBnTMpahGVNJgR2moJ40nqoN1leonGln+yCAao
HKM4G6u52jt8qbeobhuE4rFmr7xvRl4GVFCNOJ8GceB2PVAeKowjIudFEQxXus9c
jtv1JraELJ3GY6evbL1xeQVTlpDtVcMO5DaxjNq6ywpXauuYwTqQFdm55m2Elip
BdCL/CiwX5Rv6GOL417pvo7ZsqSi0HpEiUbDorIxFOY2OGm7sFHBtiniZBZkt16+8
LiDc3LECAwEAaANTMFewHQYDVR0OBByEFfElbbRpKRbuJU7FDfo+JduYCUuVrMB8G
AlUdIWQYMBaAFElbbRpKRbuJU7FDfo+JduYCUuVrMA8GA1UdEwEB/wQFMAMBAf8w
DQYJKoZIhvcNAQELBQADggIBAB31ff6N2p9jDDXuZKfM3cLN/BwmOJbKxRtPN7Y
6Elcs/VV1cUU50jBr9PMJQcH/XoOTwKJeu7Z7WC0G0nbpyN35r30EFQoZYw3J1el
s84oc/UPQjtwan/gUkwTIsBlUP0msvlyAS7vy+AkYVF45RICWLy1GLlO/JMPrLE/
npJn7WCWHLHgoV82ZGni77RvmHfcew2yDoH0NqyBrkEf/jgBqpgwFI4u0H4i6mi4
BGgB9Hi6yr/UXhZqa5s3f8XvgW7qRHluCPSVsIIvPnRera/4KcRg5YuJW7ZjTVQWK
d5112pLq9p0gMIVSDPlp++MEo/toYC/140MeIq2BitgJtJAKdOm/l7L6Zlozr84
cKGTHQuicK3IMuGMeqKp+AN17zkbVrnGDKNHT/iaJav+ss+h3tYd56RYPHJ3P10u

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