

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](#)
- [Integration, Hosting, Security](#)

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
-------	---------------

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
BQAwbzELMAkGA1UEBhMCUEwxZDABBgNVBAGMC01hem93aWVja211MQ8wDQYDVQQH
DAZXYYJzYXcxETAPBgNVBAoMCFZlcmVzdHJvMRQwEgYDVQQQLDAtQUkVQQULExORF
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/O3QY80FfNDR8oQtCklW4ZTus9RMxBxvfk
u/tlFnHlPzvPwEGSStJurtK9f5LL0UoaGN0hx/xvCd5oThnukKbXXfAqDLUOyelt
6vxpeFobhghlcl4M+xGiZE0cmQIFU4lDrTU+Cd50ENgkCYwlMbqmVZ/9XpY4B6Fd
Go6s06+brlCO6tHwwPl9Z+toUifyDomu/b9mtPt5ATXFE2/OnubTmwXpLiV9NIPv
mX7GXXKf5RX5PsSN5mCjrmlyUtzknRW+JPrKMosqlx2ln1DPIXA608XIdwIBP5/2Q
5cPaYS0cYqW/F0hiStH3bve5Yf7h942Fv5D39J4/zuj47WUQIDAQABolMwUTAd
BgNVHQ4EFgQUjs64XWuJqXY9PZWPjIkSx4z/EwkWHwYDVR0jBBgwFoAUjs64XWuJ
qXY9PZWPjIkSx4z/EwkWHwYDVR0TAQH/BAUwAwEB/zANBgkqhkiG9w0BAQsFAAOC
AgEARu75eBHNWZo5jElhf+vxswAoATkJfNSItyN+S7uLX/KaJq25Zhr2KKcxMm02b
qvc3cwcYy0m6k7pcae84VrEuZ4coDwnkYtSbtAPEPLS0YznCpZizbNm/rAIQnjpM
Oz5iCu+pnxlm46XYKKHq+CHifngN7+nnJNomY9ytHiQEGkEoxY/L8ERqEEGmWgC5
+pBht8YHXk9MryVO3I8Iyi4Dseiahav5HQ4fTEfhg289nlosgVIpgf/oKkpWKrkS
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8Kwao5kwxU0P9Fr0lnt3GO9aRC5PJ06kFwaWh9lrjTp4/MuGZgaLSsq6f1S4rgKX
bZ8WCqyGPpNVYs8DoTqxJXeIltBwgqRT2FbOs5BGJU2haQov+/+t61zV245XRl3z
LEQUPnn7f1U2oeQQcgDArvl+Cb0li3AmrYkEYdtmdEsEjyfg50ZuYfy4qJqx3kiY
x/sRhfeMlvRVV63eLzCq+Vpsols2zAGnwyvAX2x+s6ughCLB8Sno22xT03aNhv+g
BpZCD18dJkZDaQk46eQFvswSSQHHXV5g44ZuRe09By5ev4=
-----END CERTIFICATE-----
```

Prod Root CA certificate

```

-----BEGIN CERTIFICATE-----
MIIFpTCCA42gAwIBAgIUKA6at+c8TdPPOzmrKkybHacq7LgWDQYJKoZIhvcNAQEL
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DAZXYXJzYXcxETAPBgNVBAoMCFZlcmVzdHJvMQswCQYDVQQLDAJEQzEMMAoGA1UE
AwwDQVBjMB4XDTE1MDQxMjE0MTM1N1oXDTQxMDQwNzE0MTM1N1owYjELMAkGA1UE
BhMCUExwFzFDb290aW50aW50aW50aW50aW50aW50aW50aW50aW50aW50aW50aW50
BgNVBAoMCFZlcmVzdHJvMQswCQYDVQQLDAJEQzEMMAoGA1UEAwwDQVBjMBJMIICIjAN
BgkqhkiG9w0BAQEEFAAOCAg8AMIICCgKCAgEAgBtkowILbrt3w4nJ8VLP21zGQn3E
5EIOboQIBrCPSBNQs5kBWLiTcxHkqcaHoAzLrL++18IwxJgmW14GrI9ZOmLJN
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G+/4CyLdEOCaV/K9Eu30BD5cVSA/66cXAZd7pn02x/5ISStdbFNsXw20MRH2z1B
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4f7/MB8GA1UdIwQYMBaAFK7R2ygy+7rX+ADXQALnMg354f7/MA8GA1UdEwEB/wQF
MAMBAf8wDQYJKoZIhvcNAQELBQADggIBAGYxIOj6w9kID96WsedZKIGAi84WfD5
QRUC488t6bhw1uNKj2/hh9wMxWtMJaspEOc99BJZPXwe0v3Cw2nJzv5r1iYjgbA5
mx57yIdliFLCCKGq9WUsEE8rGKks104yhF20aLpQw7YuRxnExWNugT9nqDvhzZMe
ddQxZsfUG5taIKsqpB1nLARZX12PtDwEse+MsXc0w6ilunjOphR9qbpqYDAmRgmC
CWdhLnG7qwQBd+9Q1fxy431YrMy8e82KmJC9Xcz3bzGIPFhApoTEhzCORtnXEwBZ
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FTD/5/r1kUQ84LiMkZpfYJ2EFiZ1L0yHnX41EqVdMe5edTzB00PoNUvwilMqKwMc
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Sfz3XA/4lceVybhG0wam12lA35NKMg62l1f1DcmtnSf/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
BQAwZDZELMAkGA1UEBhMCUEwxFDASBgNVBAGMC01hem93aWVja211MREwDwYDVQ
DAhXYXJzemF3YTEUMBIGA1UECgwLVmVyZXN0cm8gU0ExCzAJBgNVBAsMAklUMRww
GgYDVQDDBNQV9WRVJFU1RST19ERVZfQVdTMB4XDTEyMTAxODE0MDU0OVoXDTEy
MDgyNjE0MDU0OVoowdZELMAkGA1UEBhMCUEwxFDASBgNVBAGMC01hem93aWVja211
MREwDwYDVQDDAhXYXJzemF3YTEUMBIGA1UECgwLVmVyZXN0cm8gU0ExCzAJBgNV
BAsMAklUMRwwGgYDVQDDBNQV9WRVJFU1RST19ERVZfQVdTMIICIjANBgkqhkiG
9w0BAQEFAAOCAgEAMIICGKAgEAlIsGfebab+VhdvmHXHhyfWl6hXK72fuJvxvX
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VWR2nOtVOoRmPTA0EhfQzP4pC0GRB0Gtg+ygKJ/oJ3S7zwnzZOTVfVusePeIOPKM
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r9xKqYrQnKnexrBt1mWDMlpZnYJQ9GzwjWB4n29EJ44Kx4wd/YvvS3da7zbjYLG
HeEd20dDyMtYkJPqkJJe0ElGpVDiQCEoAAfpXcAmTsgD3uzIlyRf3/+3zRuBC82m3
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HKM4G6u52jt8qbeobhuE4rFmr7xvRl4GVFCNOJ8Gceb2PVAeKowjIudFEQxXus9c
jtv1JraELJ3GY6evbL1xeQVTLvpDtVcMO5DaxjNq6ywpXauuYwTqQFdm55m2Elip
BdCL/CiwX5Rv6GOL417pvo7ZsqSi0HpEiUbDorIxFOY2OGm7sFHBtneiZBZkt16+8
LiDc3LECAwEAaANTMFewHQYDVR0OBByEFElbbRpKRbuJU7FDfo+JduYCUuVrMB8G
AlUdIwQYMBAAFEElbbRpKRbuJU7FDfo+JduYCUuVrMA8GA1UdEwEB/wQFMAMBAf8w
DQYJKoZIhvcNAQELBQADggIBAB31ff6N2p9jDDXuZJKfM3cLN/BwmOJbKxRtPN7Y
6ElcS/VvlcUU50jBr9PMJQcH/XoOTwKJeu7Z7WC0G0nbpYN35r3OEFQoZYw3Jlel
s84oc/UPQjtwan/gUkwTIsBlUP0msvlyAS7vy+AkYVF45RICWLy1GLlO/JMprLE/
npJn7WCWHLHgoV82ZGni77RvmHf cew2yDoH0NqyBrkEf/jgBqpqWFI4u0H4i6mi4
BGgB9Hi6yr/UXhZqa5s3f8XvgW7qRHluCPSVsIIvPnRera/4KcRg5YuW7ZjTVQWK
d5112pLq9p0gMIVSDPlp++MEo/toYC/140MeIq2BitgJtJAKdOm/jL6Zlozr84
cKGTHQuicK3IMuGMeqKp+ANl7zkbVrnGDKNHT/iaJav+ss+h3tYd56RYPHJ3Pl0u

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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
BQAwEDELMAkGA1UEBhMCUEwxFDASBgNVBAGMC01hem93aWVja2llMREwDwYDVQQH
DAhXYXJzemF3YTEUMBIGAlUECgwLVkVSRVNUUk8gU0ExCzAJBgNVBAsMAklUMR0w
GwYDVQQDDBRDQV9WRVJFU1RST19QUk9EX0FXUzAeFw0yMjEwMTgxNDMzNTlaFw0z
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VQQLDAJjVDEdMBSGA1UEAwwUQ0FfVkvVSRVNUUk9fUFJPRF9BV1MwggIiMA0GCSqG
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H+XRbb3E6Kwvl8Ma5+9TWHJepXAw699TAeEm5U9ataNxdqCdtelbuz+gpIgfOMyb
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JE0NgMGCKPAhh5QgGLK3KzGPMskhy8gJQwW5R03bE9XmmMUz8Jl03F9nxK+kRNK7
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/EzTLF+lNbRL8ZaxilJsWj4CIOE7n+BaVIsQypLD7toOytpgTG5h52vSl+tcVuKb
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ULm8D28nfLzjQ0e5ualyPBjKpbT0jwx5SYLFxxkXSsk5QLOBCXYEP0c3wYmk5TPn
JxJ589zjkxmlf35JKyG4J9xN3uyiMA9XomUgpy+JMnczCuuP0U4mXOB3Y0UkXf70
BFASD6NPT9QelAql6ibz8vhIunP3//wqCkiiBrNdeNlYbdd3pfii4+mUCUcbeSaP
bd0mlBV9OLyLDpyZ/w6ws/NfclJcqu4ltuu2UxAnHiahXViswS4Lp8OC0I+rhviV
j5Umxio=
-----END CERTIFICATE-----
```

Integration, Hosting, Security

Integration with Verestro

Verestro offers three ways to take benefit of our solution, see table below for detailed comparison and pros of each of them.

	White Label Application	SDKs	APIs
What is it?	Complete mobile application for Android & iOS. Ready to be branded, customized and deployed to your users.	Native development kits for Android & iOS. Libraries easily pluggable into your existing mobile app, they take care of heavy-lifting and allow you to focus on User Experience.	REST-based interface to enable integration of your existing back-end to our services.

Key benefits	<ul style="list-style-type: none"> • Shortest time to market - ready to deploy in 20 days. • Modular approach - pick what you need. • Field-tested UX and processes. • Well defined customization scope, to guarantee on-time delivery. • Open to extension - it's possible to add new modules specific to your business. 	<ul style="list-style-type: none"> • Full flexibility in creation of User Interface • Device security, encryption, session management are taken care of - your development team needs to focus only on experience of your users. • Minimal impact on back-end. Our SDKs connect to our back-ends, limiting scope of the project on your end, mostly to mobile application. 	<ul style="list-style-type: none"> • Seamless integration to all your existing services including mobile apps, web or any other platform like IoT or Wearables. • Mix and compose our solution with your existing processes to create familiar environment for your users, with no compromises. • Handling of sensitive data is still covered, using strong, yet easy to implement cryptography. According to current best industry standards.
When to choose?	<ul style="list-style-type: none"> • Your product is created from scratch. • Time to market is crucial. • Development impact on your organization has to be minimized. 	<ul style="list-style-type: none"> • Mobile application already in-place. • Needs expansion with fin-tech functionality. • There's capacity for mobile development. 	<ul style="list-style-type: none"> • Existing multi-channel solution. • Mobile app already present or not necessary. • Verestro API will be used to augment existing financial product. • There's capacity for back-end development on your side.

Sandbox Environment

We have sandbox environment available per request. Contact sales@verestro.com to get access. More information about connection configuration can be found here: [Connecting to server-to-server APIs](#).

Hosting

We deliver our products in Software-As-A-Service Model. We build a new instance of the platform for new customers and we host in either in private cloud (European Union) or public cloud (AWS anywhere in the world). We prefer this model of delivery as almost every software component is going through updates every 2nd week. We need to make sure service is compliant with security requirements, android, iOS, Mastercard, VISA so we are in a constant development process. It is usually impossible or very difficult to go through regular deployment and release process if we do not host the platform.

Security Standards and PCI DSS

Verestro is compliant with the highest level of PCI DSS Standards - Level 1. We are regularly going through system scans and once per year we are going through on-site audit performed by certified PCI DSS auditor. Verestro is also regularly checked and verified by Mastercard or VISA and multiple institutions (including big banks) that are regularly auditing Verestro infrastructure. We achieved the highest security standards by:

1. Building and maintaining network security - the need to build and maintain a firewall configuration that protects cardholder data, not using manufacturers' default passwords and settings.
2. Protecting cardholder data - protecting stored cardholder data, encrypting data transmissions when using public networks.
3. Maintaining a payment management program - using regularly updated anti-virus systems, developing secure systems and applications.
4. Implementing strong access control methods - limiting access to cardholder data to only those with a business need, assigning each user a unique ID, limiting physical access to cardholder data.
5. Regular network monitoring and testing - testing security systems and processes, controlling access to network resources and cardholder data.
6. Maintaining information security policies - relying on security policies for employees and vendors.