

## mkdir /etc/httpd/keycertificate

Now that we have a place to put our key and certificate, we can finally generate the certificate!

## Step 3: Determine your Organization Name or IP Address

When you create your certificate, you'll be asked to provide several details – one of the most important is your domain name or IP address. If you want to submit a certificate request to a CA, then you need to make sure that you provide the main domain name of your site – not an alias for example. For our purposes, you can even use the IP address of your server. As long as you remain consistent with It – because you'll have to enter it in a couple of places.

For this example, I'm using my server IP address

## Step 4: Determining the Level of Encryption

When you generate your private key, you have to determine what level of encryption you want to use. The recommended key length is 2048 bits. Higher security keys like 4096 bits have a slower server response. Technically, you can even use something as low as 512 bits for maximum speed, but browsers these days will display a warning if the certificate is linked to a low security key.

Chrome for example, will reject the request outright without any additional information. Firefox however, displays the following warning:

(j)	Secure Connection Failed
	An error occurred during a connection to 104.236.92.101. The server certificate included a public key that was too weak. Ef or code: SSL_ERROR_WEAK_SERVER_CERT_KEY
	The page you are trying to view cannot be shown because the authenticity of the received data could not be verified.     Please contact the website owners to inform them of this problem. Learn more

For testing purposes, I wanted to first use a weak key to see what would happen, and it took me a while to figure out the problem! So if you want modern browsers to recognize your site, make sure you use a key with at least 2048 bit security. Anything less will set off errors.

## Step 5: Generating the Key and Certificate

Now we come down to it. We're going to perform the following tasks:

- 1. Generate a key pair
- 2. Extract the private key 3. Delete the initial key pair
- 4. Create a certificate signing request
- 5. Create a self signed certificate

These four steps are carried out by the following four commands:

openssl genrsa -des3 -passout pass:x -out serve openssl rsa -passin pass:x -in server.pass.key rm server.pass.key

openssl req -new -key /etc/httpd/keycertificate openssl x509 -req -days 365 -in /etc/httpd/keyc

In the above example, replace [server name/IP] with the name you decided on in step 3. The fourth command will ask you a bunch of questions about your organization. Since this is a self signed certificate, you can leave most of the fields blank. However, when it asks you for your "common name", make sure you enter your server's domain/IP address as determined before:



The final command will use the CSR to create a self signed certificate and place it in the "keycertificate" folder that we created in Step 2.

•	King and a start for the start of the large start of
so we have our key and certi nothing. Angebe still doccert	know that we have these files so
now we have to modify the A	Apache configuration to tell us
where the files are located. C	pen the following Apache
configuration file like this:	
vi /etc/httpd/conf.d/	ssl.conf
Or you can use your favorite	text editor instead of "vi". Either
way, search for these two line	es starting with:
SSLCertificateFile	
and	
SSLCertificateKeyFile	
And plug in the paths to the	key file and certificate like this:
SSLCertificateFile /e	tc/httpd/keycertificate/[s
and	
SSLCertificateKeyFile	/etc/httpd/keycertificate
Make sure you use the same	domain name or IP address you
determined in Step 3. Here's	CL PROFESSION PROFESSION TRACESSION VICOLES AND AND AND T
looks like:	a screenshot to show you what it
looks like:	a scieenshot to show you what it
looks like:	a FEM encoded certificate. If
<pre>looks like: # Server Certificate: # Point SSLCertificateFile at the certificate is encrypted # pass phrase. Note that a k certificate is encrypted</pre>	a FEM encoded certificate. If , then you will be prompted for a 11 -HUP will prompt span. A new 
looks like: Jerver Certificate: Point SSLCertificateFile at the certificate is encrypted pass phrase. Note that ak SSLCertificateFile /etc/httpd/	a FEM encoded certificate. If (, then you wild be prompted for a 11-100 will people april. A real Xeypertificate/104.235.92.101.crt
looks like: fount SSLCertificate? fount SSLCertificate? bene certificate is encrypted SSLCertificate? SSLCerti	a FEM encoded certificate. If (, then you wild be prompted for a 11 - 100 will be prompted for a weyvertificate/104.355,92.101.crt wild be certificate, use this work file. Second a subscience.
COUSTING: Server Certificate: Pann Siderrificate: Pann Siderrificate: Pann Siderrificate: Pann Siderrificate: Pann Siderrificate: Siderificate: Siderrificate: Siderr	a FEM encoded certificate. If (, then you wild be prompted for a the start of the second second second second keywertificate/104.236.92.101.cct with the certificate, use this key file, fero in much that if h private key you can configure allow the use of DBS compace and
COUSTING: Server Certificate: Pann Siderrificate: Pann Siderrificate: Pann Siderrificate: Pann Siderrificate: Siderrific	a FEM encoded certificate. If (, then you will be program for a the second second second second second second very second second second second second very tiles / second second second a provide key you can configure a just second second second pu/keycentificate/104.336.92.101.key
Cocks like: denome Corrificate: rest, SECENTICASE/Leat rest, SECENTICASE/Leat rest, SECENTICASE/Leat resepting serve finance is denomed restantional and a denomed discort optimal at the discort optimal at the discort optimal at the serve finance and and a denomed discort optimal at the serve finance and and a denomed discort optimal at the discort optimal at the disc	a PEM encoded certificate. If , then post will be provided for a line of the second second second second Revertificate/104.236.92.00.ert with the second second second second provide the second second second second provide the second second second second provide the second second second second second provide the second sec
Looks like:	a PEM encoded certificate. If h them you will be propried for a lin-HD will propri again. A new here the average of the second keyperificate/104.2005.09.101.cert two file. Certificate.use this have the average of the second second here the second second second second second second here the second second second second second second here the second seco
Looks like:	a HEM encoded sertificate. If h, then you will be promoted for a lin -HEW will promot again. A new protection of the series of the series regions that again is a series regions that again is a series of the series regions that again is a series of the series along the series of the s
Looks like:	<pre>a PEM snooled settificate. If t, then you will be prospeed for a lil -NE will prompt again. A new control of the prospeed for a try official control of the prospeed for a try official control of the state try file. Better for a side will be try file. try file. try better for a side will be try be tr</pre>
looks like:	a PSM encoded certificate. If , then you Ville Program of the second response of the second of the
Looks like:	a the encoded destificts. If a the provide destificts. If a been provided destificts. If a been provide the property for a been been been been been been keyestificate/loke/200,220,020,000 keyestificate/loke/200,220,020,000 keyestificate/loke/200,220,020,000 keyestificate/loke/200,220,020,000 keyestificate/loke/200,200,000 keyestificate/loke/200,200,000 keyestificate/loke/200,200,000 keyestificate/loke/loke/loke/loke/loke/loke/loke/lok
looks like:	a deficient to show you which it is a deficient of a second sectificate. If a chem you will be propried for a second s
looks like:	a BCI enoded sertificate. If then you will be proposed for a the comparison of the proposed for a the comparison of the proposed for a terror the comparison of the comparison of the comparison terror the comparison of the comparison of the comparison terror terror terror terror terror terror terror terror terror terror terror terror terror terror terror terror ter
looks like:	<pre>a PEM anooded certificate. If , then you will be prospeed for a , the y</pre>
looks like:	a SEM anoded settificate. If t, then you will be proposed for a the settificate of the proposed for a the settificate of the settificate of the setting the setting the setting the setting the set of the setting setting the setting the setting setting the setting setting the setting setting the this: Setting the setting setting the setting s
looks like:	a top incoded destificts: If a control of the present of the a b control of the present of the a the control of the present of the a the control of the control of the a present of the control of the a the control of the control of the a the control of the control of the a config file. The control of the control of the a config file. If done! Now open up a browser s' instead of 'http'. At the saw how it generated an error, nething like this:
looks like:	a ded decembro to show you wind it is a ded acceleration to show you wind it is propried for a contract of the propried for a contract of the contract of t
looks like:	<pre>a #2# anooded settificite. If</pre>
looks like:	A P2 incoded excilinate. If     (then you wild be proposed for a     (the you wi
looks like:	A TET anoded extificate. If     () then you wild the proposed for a     () the you wild the you wild the you wild the proposed for a     () the you wild the you wi
looks like:	A PCI anoded exciting to show you which it     A provide the proposed for a     Construction of the proposed for a     Constructio

Chrome recognizes that it's a self signed certificate and generates a warning. If you click 'Advanced', you'll be allowed to ignore the error and proceed, and your page should show as usual:

Apache HTTP Server Test X
← → C ▲ https://104.236.92.101
This page is used to test the prop been installed. If you can read this serve
Step 8: Submit your CSR File to a CA We generated a csr file where we had to enter all our details, e-mail ID etc. That file can be sent to a Certificate Authority (CA) in order to obtain an authorized certificate that we can place onto our server so that browsers don't display a warning like they do above. CAs charge a fee depending on how
Leave a Reply Your email address will not be published. Required fields are marked *
Comment
Name*
Email*
Website
Post Comment
Powered by 🚼 RamNode
Topics • Articles • Email Hosting • Linux • HP • Productivity • Web Hosting • WordPress
The Best Web Hosting only \$2.95 /mo Get Started # bluehost
About this archive The content from this archive is provided for reference purposes only and will no longer be updated.