Install Lets Encrypt for Bitnami WordPress Multisite Hosted on AWS EC2

This is essentially a walkthrough of the video tutorial on Bitnami. https://docs.bitnami.com/aws/how-to/understand-bncert/

- 1. ssh into the AWS EC2 Instance with the keyfile and ip address
 - a. Ex: ssh -i locationOfKeyFile.pem bitnami@ipaddress
 - i. ssh -i oceanitMultisite.pem bitnami@34.215.127.175
- 2. Locate and run the bncert-tool provided by Bitnami to install SSL

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a. After getting into the server, run sudo /opt/bitnami/bncert-tool

  bitnami@ip-172-31-21-224:/opt/bitnami$ sudo ./bncert-tool

  Welcome to the Bitnami HTTPS Configuration tool.

  Domains

  Please provide a valid space-separated list of domains for which you wish to configure your web server.

  The web server name will be configured as the first provided domain name.

  If you provide a non-www domain (e.g. example.com) but not its www subdomain (e.g. www.example.com), it will be added automatically, and viceversa.

  Domain list []:
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- b. You will be asked to provide the domains you would like to provide an SSL cert to. Since adding non-www domains will automatically add its www subdomain, we would like to prepend "www." to all domains we want to add except for the subdomains such as dragxsurfaces.oceanitlabs.com.
 - i. We do this because prepending querying www.dragxsurfaces.oceanitlabs.com results in "This site can't be reached."
 - ii. If we did not do this, bitnami would automatically add the www counterparts to all domains listed, and I wasn't sure how to get rid of them haha...
- c. Below are the domains currently covered by the SSL. Copy them, adding any other domains you would like to be covered. Each domain must redirect to the same IP address.
 - aeropeltechnology.com aeropeltechnology.oceanitlabs.com anthronoetic.com anthronoetic.oceanitlabs.com blastninja.com blastninja.oceanitlabs.com dragxsurfaces.com dragxsurfaces.oceanitlabs.com everpeltech.com everpeltech.oceanitlabs.com foulx.com foulx.oceanitlabs.com heatxcoatings.com heatxcoatings.oceanitlabs.com heatxsurfaces.com heatxsurfaces.oceanitlabs.com ioview.ai ioview.oceanitlabs.com myibeach.com myibeach.oceanitlabs.com oceanitlabs.com

scintechnology.com scintechnology.oceanitlabs.com supercoolvest.com supercoolvest.oceanitlabs.com

d. Disable/revoke existing certificates, so we can install the new set of domains: Y

A certificate was found at /opt/bitnami/letsencrypt/certificates/www.oceanitlabs.com.crt

It is registered for a different set of domains: aeropeltechnology.com aeropeltechnology.oceanitlabs.com anthronoetic.com foulx.com foulx.com foulx.com foulx.com foulx.com foulx.com foulx.com heatxcoatings.com heatxcoatings.com heatxcoatings.com coeanitlabs.com supercoolvest.com supercoolvest.com supercoolvest.com supercoolvest.com www.anthronoetic.com www.blastninja.com www.dragxsurfaces.com www.everpeltech.com www.foulx.com foulx.com www.heatxsurfaces.com www.foulx.com supercoolvest.com www.heatxcoatings.com www.heatxsurfaces.com www.foulx.com www.foulx.com www.heatxcoatings.com www.heatxsurfaces.com www.foulx.com www.foulx.com www.heatxcoatings.com www.heatxsurfaces.com www.foulx.com www.heatxcoatings.com www.heatxsurfaces.com www.foulx.com www.heatxcoatings.com www.heatxsurfaces.com www.foulx.com www.heatxcoatings.com www.heatxsurfaces.com www.foulx.com www.foulx.com www.heatxcoatings.com www.heatxsurfaces.com www.foulx.com www.foulx.com www.heatxcoatings.com www.heatxsurfaces.com www.foulx.com foulx www.foulx.com foulx www.foulx.com foulx www.heatxcoatings.com www.heatxcoatings.com www.heatxcoatings.com www.heatxcoatings.com www.foul

Changes to perform

The following changes will be performed to your Bitnami installation:

1. Stop web server

2. Revoke existing Let's Encrypt certificate: /opt/bitnami/letsencrypt/certificates/www.oceanitlabs.com.crt 3. Configure web server to use a free Let's Encrypt certificate for the domains: www.oceanitlabs.com oceanitlabs.com dragxsurfaces.oceanitlabs.com everpeltech.oceanitlabs.com anthronoetic.oceanitlabs.com blastninja.oceanitlabs.com heatxcoatings.oceanitlabs.com heatxsurfaces.oceanitlabs.com foulx.oceanitlabs.com aeropeltechnology.oceanitlabs.com ioview.oceanitlabs.com oceanitventures.oceanitlabs.com scintechnology.oceanitlabs.com supercoolvest.oceanitlabs.com dragxsurfaces.com everpeltech.com anthronoetic.com blastninja.com heatxcoatings.com heatxsurfaces.com foulx.com aeropeltechnology.com ioview.ai scintechnology.com supercoolvest.com www.dragxsurfaces.com www.everpeltech.com www.anthronoetic.com www.blastninja.com www.heatxcoatings.com www.dragxsurfaces.oceanitlabs.com www.everpeltech.oceanitlabs.com www.anthronoetic.oceanitlabs.com www.blastninja.oceanitlabs.com www.heatxcoatings.oceanitlabs.com www.heatxsurfaces.oceanitlabs.com www.foulx.oceanitlabs.com www.aeropeltechnology.oceanitlabs.com www.ioview.oceanitlabs.com www.oceanitventures.oceanitlabs.com www.scintechnology.oceanitlabs.com www.supercoolvest.oceanitlabs.com www.heatxsurfaces.com www.foulx.com www.aeropeltechnology.com www.ioview.ai www.scintechnology.com www.supercoolvest.com 4. Disable existing Let's Encrypt cron jobs configured with the tool 5. Configure a cron job to automatically renew the certificates each month Configure web server name to: www.oceanitlabs.com
Enable HTTP to HTTPS redirection (example: redirect http://oceanitlabs.com to https://oceanitlabs.com) 8. Enable non-www to www redirection (example: redirect oceanitlabs.com to www.oceanitlabs.com) 9. Start web server once all changes have been performed

You can modify the list of changes to perform if you select 'No'

Do you agree to these changes? [Y/n]:

This is where bitnami has automatically prepended www to our subdomains.

- a. Enter n
- b. When asked for which changes to allow, do the following
 - i. Enable HTTP to HTTPS redirection [Y/n]: y
 - ii. Enable non-www to www redirection [Y/n]: n
 - 1. This is preventing dragxsurfaces.oceanitlabs.com from being redirected to the faulty link www.dragxsurfaces.oceanitlabs.com
 - iii. Enable www to non-www redirection [y/N]: y
 - 1. Routes any www site to a non-www site, allowing

www.supercoolvest.com to be covered by supercoolvest.com

- iv. Add missing domains: [Y/n]: n
- 4. Accept the changes: Y
- 5. Email address associated: info@oceanit.com
- 6. Agree to the subscriber agreement: Y

7. After finishing, press enter and the domains now should have HTTPS. Let's Encrypt SSLs last for 90 days, but automatic renewal of the SSLs have also been handled by this installation through cron jobs. You can check all cron jobs by running: crontab -1

Create a free HTTPS certificate with Let's Encrypt

Please provide a valid e-mail address for which to associate your Let's Encrypt certificate.

Domain list: aeropeltechnology.com aeropeltechnology.oceanitlabs.com anthronoetic.com anthronoetic.oceanitlabs.com blastninja.com blastninja.oceanitlabs.com dragxsurfaces.com dragxsurfaces.oceanitlabs.com everpeltech.com everpeltech.oceanitlabs.com foulx.com foulx.oceanitlabs.com heatxcoatings.com heatxcoatings.oceanitlabs.com heatxsurfaces.com heatxsurfaces.oceanitlabs.com ioview.ai ioview.oceanitlabs.com oceanitlabs.com oceanitventures.oceanitlabs.com scintechnology.com scintechnology.oceanitlabs.com supercoolvest.oceanitlabs.com

Server name: aeropeltechnology.com

[E-mail address []: info@oceanit.com

The Let's Encrypt Subscriber Agreement can be found at:

https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf

[Do you agree to the Let's Encrypt Subscriber Agreement? [Y/n]: y

Performing changes to your installation

The Bitnami HTTPS Configuration Tool will perform any necessary actions to your Bitnami installation. This may take some time, please be patient.

Success

The Bitnami HTTPS Configuration Tool succeeded in modifying your installation.

The configuration report is shown below.

Backup files: * /opt/bitnami/apache2/conf/httpd.conf.back.201908021917 * /opt/bitnami/apache2/conf/bitnami/bitnami-apps-prefix.conf.back.201908021917 * /opt/bitnami/apache2/conf/bitnami/bitnami.conf.back.201908021917 Find more details in the log file: /tmp/bncert-201908021917.log If you find any issues, please check Bitnami Support forums at: https://community.bitnami.com

Press [Enter] to continue: