# VIETNAM GENERAL CONFEDERATION OF LABOR TON DUC THANG UNIVERSITY FACULTY OF INFORMATION TECHNOLOGY



## ASSIGNMENT WED PROGRAMMING AND ALLICATIONS

## ...DELOYING WED...

Instructor: GV BHAGAWAN NATH

Performer: LAI QUỐC TRÍ – 519H0242

HOÀNG MINH TÂN - 519H0129

TRẦN ĐĂNG KHOA - 519H0180

Class : 19H50202 & 19H50302

Course : K23

**HO CHI MINH CITY, YEAR 2021** 

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#### **ACKNOWLEDGMENTS**

#### Hoàng Minh Tân:

Thank you friends for helping me to complete this thesis well. If I have the opportunity, I can invite you to a cup of milk tea as my gratitude for you. If you have any difficulty in your future essays, please tell me, I will help you as much as I can. Thank you very much!!!

#### Lại Quốc Trí:

I myself am a rather dull and boring person, so I can't say fancy words of thanks or winged thanks to you. But I really admire my friends in the same group, if given the opportunity, you and I can collaborate on many future essays. Thank you!!

#### Trần Đăng Khoa:

It is a delight to work with you in the past time. On account of you, I can do well this proposal and acquire insight for myself to have the option to finish the postulation better sometime later. Much thanks, may you have loads of fun throughout everyday life.

## PROJECT COMPLETED AT TON DUC THANG UNIVERSITY

I swear this is the product of our own projects and be guided by GV Bhagawan Nath; The research contents and results in this topic are honest and have not been published in any form before. The figures in the tables serve for analysis, comment, evaluation is the author collected from different sources have stated in the reference section.

Also, in the scheme also uses a number of comments, reviews as well as data from other authors, other agencies and organizations have quoted and annotate the origin.

If detecting any fraud I bear full responsibility for the contents of their projects. Ton Duc Thang University does not involve copyright infringement, copyright because I caused in the implementation process (if any).

HCMC, date 14 month 05 year 2021

Author

(Sign and write full name)

Lại Quốc Trí

Hoàng Minh Tân

Trần Đăng Khoa

## TEACHER'S CONFIRMATION AND EVALUATION SECTION

The confirmation of guidance teache	rs
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The assessment of teachers marking	

HCMC, date month year (sign and write full name)

#### **SUMMARY**

Get an overview of deploying a web application process after finishing coding. Objective: readers can:

- Know how to choose to buy/ register domain names, web hosting.
- Know how to configure to point the domain name to web hosting and configure other necessary parameters.
- Know different ways to upload source code to hosting services or cloud services of Google, Amazon, Heroku, ...
  - Other issues such as: how to choose to buy and install an SSL certificate.

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### LIST OF SYMBOLS AND ABBREVIATIONS

### **ABBREVIATIONS**

HTML Hypertext Markup Language

SSL Secure Sockets Layer

IP Internet Protocol

## LIST OF TABLES, FIGURES, CHART

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#### CHAPTER 1 – BUY DOMAIN NAME & WEB HOSTING

#### 1.1 Buy domain name

Each website should have a suitable domain name to attract customers, consumers or readers. To buy domain name the easiest way is check that domain name is registered or not, click buy, fill the registration information and confirm via Email.

Overview, there are 5 steps to buy the domain name, to make it more clearly, the following tutorial will guide you step by step in detail to register the most suitable domain name.

#### 1.1.1 Step 1: Choose a trusted domain registrar.

Where should I buy the domain name? To buy a domain name, you need to choose reputable domain name registrars. Only buy it from ICANN certified registrars such as iNET CORPORATION, Gmo-Z.com Runsystem Joint Stock Company, Hostinger, ... to ensure clear order procedures, and secure ownership.



Figure 1.1: Buying domain name at iNET

#### 1.1.2 Step 2: Check if the domain name is registered

Usually right away the website that buys the domain name, will be provided with a domain check tool. Type the domain you want in the search bar and press the button Check and then wait 1 second. This tool checks to see if the domain name has been registered first, and also lists more similar domain names.

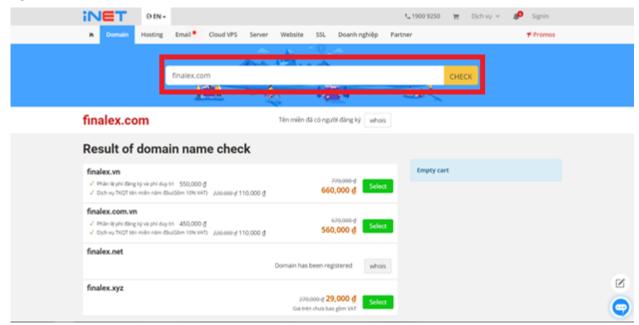


Figure 1.2: Tool to check domain name at iNET

#### 1.1.3 Step 3: Select domain name and pay

Select the domain name you like and click the Open Shopping Cart & Checkout button, then click the Checkout button:



Figure 1.3: Choose a domain name to buy

After clicking the Pay Now button, you will be able to choose your payment method to proceed with the payment:

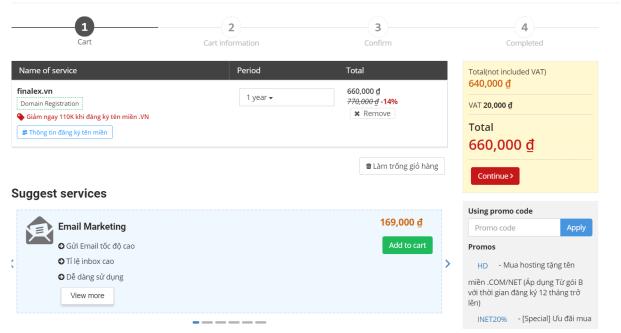


Figure 1.4: Payment interface of iNET

#### 1.1.4 Step 4: Fill in domain registration information

After buying the domain name, you will be redirected to the control panel management page.

On this page, you will see a pop-up window to complete the domain name registration. Click the Setup button.

You will be redirected to a registration information page where you need to fill in domain name owner information called WHOIS information.

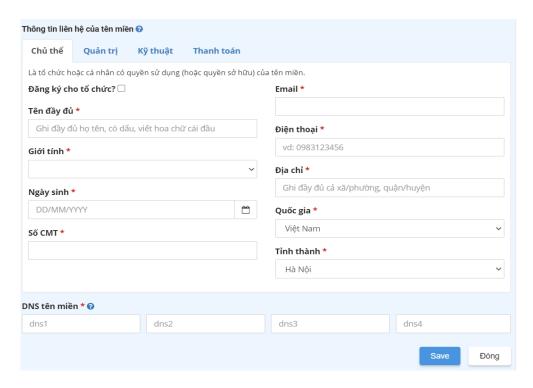


Figure 1.5: Information form

Note: Fill in the correct information to avoid domain deactivation, or even loss of domain name. Make sure information such as email address, phone number, is in your possession. Especially the email address, you need to own it, have access and are sending and receiving emails normally.

#### 1.1.5 Step 5: Verify domain ownership

Although this step sounds simple enough, it is extremely important because it identifies the owner of the domain name with the email address you entered when registering. Usually, a confirmation form will be sent to your email as soon as the domain registration application is completed in the above step.

If you do not receive it, you can try submitting the confirmation form from the control panel. We recommend that you click on the confirmation link immediately, because if after 15 days you forget to confirm, the domain name will be suspended.

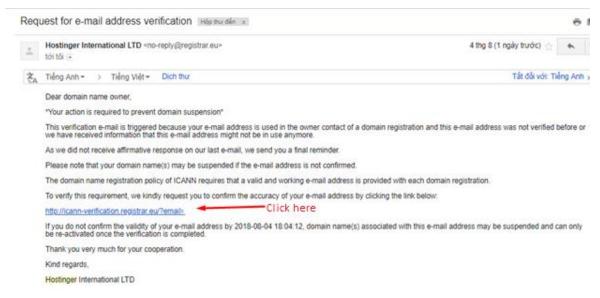


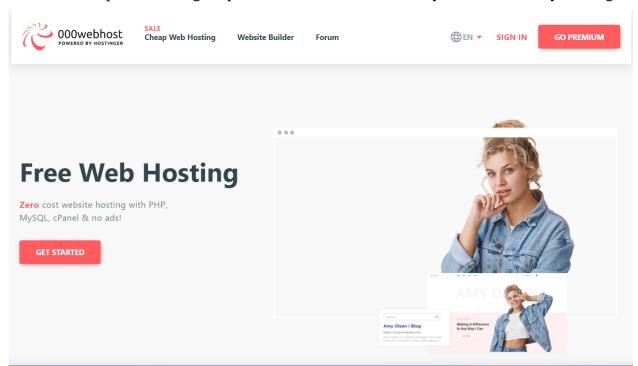
Figure 1.6: Confirmation email

Now, you have successfully purchased and registered the domain name.

#### 1.2 Buy web hosting

Hosting (or web hosting) is an online service that helps you publish your website or web application to the Internet. When you sign up for a hosting service, you rent a place on the server that contains all the files and data needed for your website to run.

The following tutorial will guide to hosting registration.



Step 1: Click Sign Up free after access to the web you choose to buy hosting.

Figure 1.7: Buying domain name at 000wwebhost

Step 2: After fill the registration form, enter the information of the email address and website name, press the "get hosting" button.

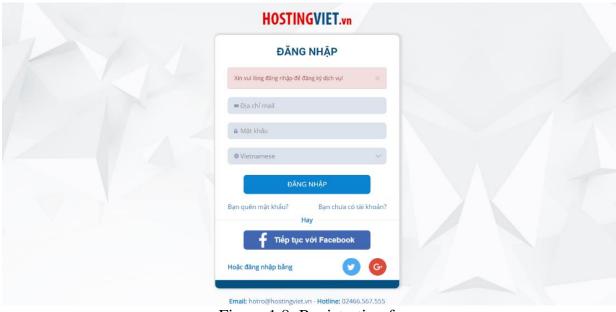


Figure 1.8: Registration form

Step 3: Active account after you sign up. At this point, you have completed the registration process.

#### CHAPTER 2 – POINT DOMAIN TO WEB HOSTING

After having the domain and web hosting, the next thing you should do is configure to point the domain name to web hosting. One thing to note is that you will need to use the domain name management system of the provider you purchased.

There are three way to point the domain name to Hosting:

#### 2.1 Point the domain name at the Name Server of the Hosting

- Step 1: Find Name Server's address of Hosting:

After Hosting is activated, you will have an email to your Hosting login account, along with the address of the Name Server of the provider.

Below is the Nameserver information of some hosting providers.

#### Server Information

Server Name: phx14.stablehost.com

If you are using an existing domain with your new hosting account, you will need to update the nameservers to point to the nameservers liked below.

Nameserver 1: <u>ns1.stablehost.com</u> (199.192.218.10) Nameserver 2: <u>ns2.stablehost.com</u> (199.192.219.10)

Figure 2.1: Name Server address of StableHost

#### **New Account Information:**

Domain: \_\_\_\_\_com Username: \_\_\_co Password: \_\_\_\_

Hosting Package: Primary

Shared/Dedicated IP: Refer to your mitrol panel

Nameserver 1: <u>ns9.hawkhost.com</u> Nameserver 2: <u>ns10.hawkhost.com</u>

Figure 2.2: Name Server address of HawkHost

- Step 2: Access your domain name provider's DNS management area:

The purpose of this step is to change the Name Server.

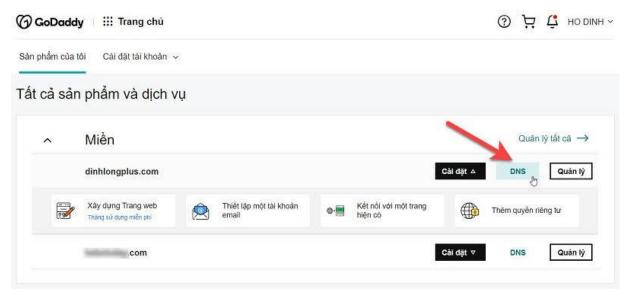


Figure 2.3: GoDaddy domain registrar

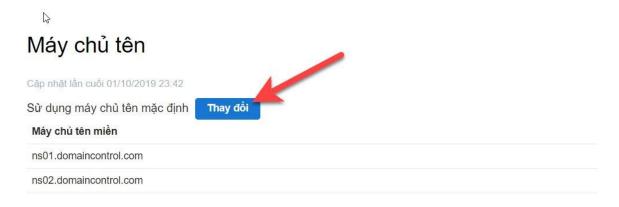


Figure 2.4: Press "Change"



Figure 2.5: Save your information

- Step 3: Update and check progress:

After knowing the area to change the nameservers for the domain name provider, you proceed to enter the address of the supplier Name Server Hosting.

For hosting using cPanel, after changing the name server, if you want to change the record, visit the cPanel and then click Advanced Zone Editor to configure.

Visit https://who.is to check if the domain name has changed the Name Server.

#### 2.2 Use the default name server's domain name provider (Use A record)

- Step 1: Determine the IP address of Hosting:

Firstly, you need to determine the IP address of the Hosting package which you signed up.

To get the standard IP, log in to cPanel, in the Domains section, click on Advanced Zone Editor.

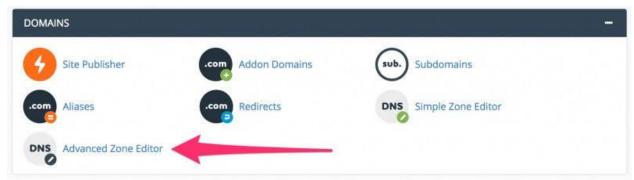


Figure 2.6: Get standard IP of Hosting

- Step 2: Change Record:

In this part, you will make in the management of the domain name providers domain.

2 records necessary required for domain name operations are normal:

- Record @ (or domain.com).
- Record www (or www.domain.com).

Both of them need to be pointed to the Hosting IP which you can check by using ping.

Step 3: Confirm progress:

The update may take a long time, maybe up to 48 hours. So, be patient.

#### 2.3 Use Name Server middleware

- Step 1: Add Website to intermediate Name Server:

To add site to intermediate Name Server like CloudFlare, Incapsula... you need to register for an account.

In each service provider, there will be a different option to add sites.

Accelerate and protect your site with Cloudflare



Figure 2.7: Add website to CloudFlare

When you are finished adding, you have to reconfirm the records for the domain. If everything is ok, click confirm to continue.

- Step 2: Point the Name Server to the intermediary Name Server provider:

Depending on the Name Server middleware that you use will have different addresses.

#### 2. Replace with Cloudflare's nameservers:



Figure 2.8: Name Servers address of CloudFlare

In this step, you access the domain name management area of the domain provider to change the Name Server.



Figure 2.9: Change Name Servers on GoDaddy

#### Step 3: Confirm progress:

Wait a while to Domain Name Server update is complete, you will receive an email notification about the setup process.



## Status Active

Create Account > Add Account > Select Plan > Update Nameservers > (STATUS: ACTIVE)

Congratulations! You have successfully activated dinhlongplus.com. Your site will now receive the benefits of Cloudflare's performance, security and reliability features. Check out reports of bandwidth saved\* and threats blocked on your account Analytics page.

Visit our Welcome Center for helpful resources for new customers. Also, check out the Cloudflare Status Page and our Blog for real time updates and news.

For common questions or to reach our Support team, visit <a href="https://support.cloudflare.com/">https://support.cloudflare.com/</a>.

Thank you, The Cloudflare Team

Figure 2.10: Email notifications successfully established from CloudFlare Nameservers

At this point, your website is up and running.

## CHAPTER 3 –UPLOAD SOURCE CODE TO HOSTING SERVICES OR CLOUD SERVICES

#### 3.1 Choose your facilitating supplier:

The right host is the most essential piece of a site. Since it makes a tremendous obligation to the association's corporate activities. As needs be, picking a dependable moreover, able working with provider will assist with building up a solid system for the site's movement to be consistent, smooth, and quick.

Here are some several factors that you need to consider while picking a web:

- + Online help: This is incredibly valuable if there should arise an occurrence of host disappointment. On the off chance that the host has issues and you are upheld speedily and rapidly, the site won't be influenced. Guests don't feel awkward because of interfered with access.
- + Get authoritative rights to your facilitating space: When you have less control, you are bound to have issues with your facilitating, particularly during the time of site development.
- + Having a huge space: Usually, sites with a very much contributed speculation will pick facilitating suppliers with enormous space. Since they know about the requirement for a huge memory limit ordinarily more than now when the site flourishes in what's to come. Thus, prior to picking a facilitating supplier, you should be aware of adaptability. Or on the other hand the arrangements that address the issues of a huge site that needs a great deal of assets.
- + Many help administrations: Prioritize picking quality providers, proficient administrations and numerous particular arrangements. For instance, on the off chance that you register for a long-term bundle, you can appreciate modest costs, pursue free area facilitating...

### 3.2 Update file to web

After choosing, we will proceed to upload the file to the web, here we use InfinityFree.

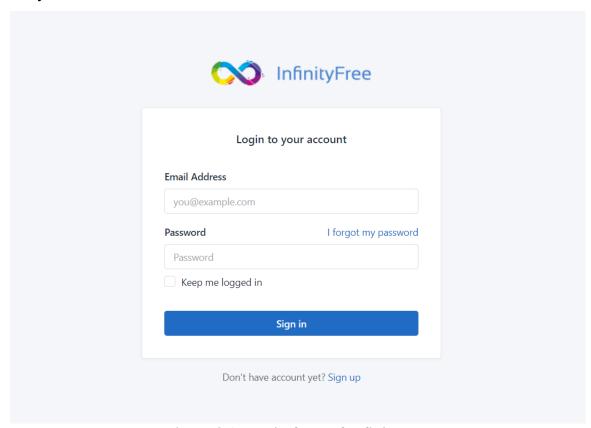


Figure 3.1: Login form of InfinityFree

After sign up and verified your email, InfinityFree will bring you to this page, you click on Create Account to create a hosting account.

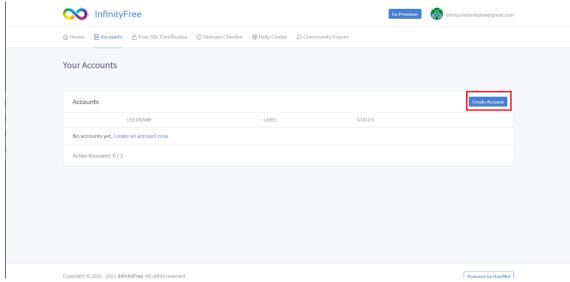


Figure 3.2: Create Account

In step 1 of create a hosting account, you choose your domain and name for your main page.

If the name hasn't taken yet, you can move to step 2, the purpose of this step is adding your password to protect the web.

Create a new Hosting Account			
<b>≭</b> Confluence	See how Confluence is transforming the way organizations work	Start for free	
The domain avt123.lovestoblog.com is available!			
Create a Hosting Account			
Step 1. Choose a domain name Step 2. Enter additional information of the step 3. Enter additional information	mation Step 3. Done		
Website for avt123.lovestoblog.com			
Account Username (generated automatically)			
Account Password			
A unique password, between 8 and 15 characters, letters and n	numbers oely. Leave empty to generate random.		
R	We own all rights		Φ×

Figure 3.3: Fill information

Click "Create Account" to complete the registration process. Press "View in Client Area" to see your account details.

Now, to upload your source code, find "File Manager".

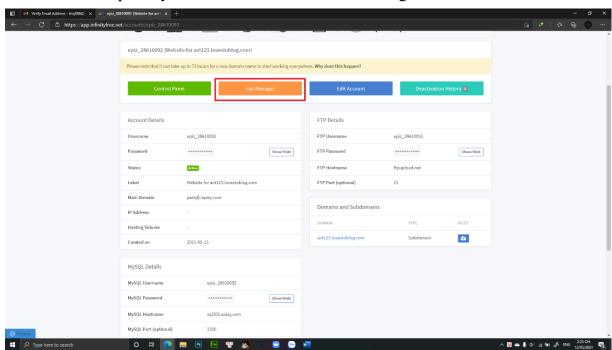


Figure 3.4: Choose File Manage

You will see all your file like this, enter "htdocs"



Figure 3.5: Enter file "htdocs"

There currently are two files in this folder, now you need to delete them.

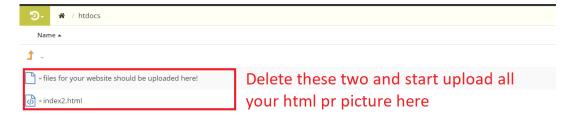


Figure 3.6: Delete these two files

And upload all your html or picture here.

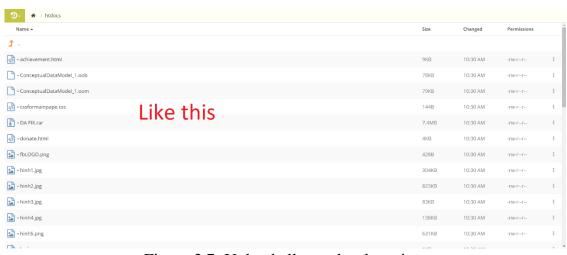


Figure 3.7: Upload all your html or picture

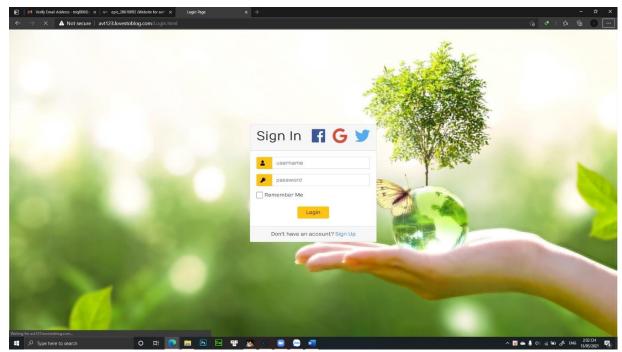


Figure 3.8: Here is our result.

This website is coded and hosted by ourself. You could check it here: <u>Login Page</u> (<u>lovestoblog.com</u>).

This the way you can upload your source code to web for free. But because it free so it maybe causes many errors like a lot of adds something like that .

But if you want your web to more convenient and professional you should buy your domain and it not cause a lot of error.

#### CHAPTER 4 – HOW TO BUY AND SETTING SSL

SSL stands for Secure Sockets Layer. This is a global technology security standard that creates an encrypted link between the web server and the browser. To ensure that all data exchanged between the web server and the browser is always secure and safe.

Purchasing an SSL certificate is a significant basic undertaking in case you're clear about your necessities, and yet, it tends to be extremely tricky on the off chance that you don't have a lot of information about SSL certificate. Here are few significant hints and rules to help you when you're on the lookout for an SSL certificate, regardless of whether you don't have a lot of information on that front.



Figure 4.1: How to buy and setting SSL

- + Get your server set up and make sure your WHOIS record is up-to-date.
- + Generate a Certificate Signing Request (CSR) from the server.
- + Submit the CSR and other much-needed information to the Certificate Authority (CA) for the SSL product you purchased.
- + Complete the validation for your domain and company if your certificate requires it.

+ Upon issuance from the CA, properly install the certificate on the server.

#### 4.1 Step 1: Host with a dedicated IP address.

To give the best security, SSL certificates require your website to have its own dedicated IP address. Heaps of more modest web hosting plans put you on a shared IP where various different sites are utilizing a similar area. With a dedicated IP, you guarantee that the traffic going to that IP address is simply going to your website and nobody else's. On the off chance that you don't have an arrangement with a dedicated IP you can ask your present web host to redesign your record to have a dedicated IP address. There will most likely be a charge for it – it very well may be one-time or month to month expenses.

#### 4.2 Step 2: Buy a Certificate

Next, you'll require something that demonstrates that website is yours – similar to an ID Card for your site. This is cultivated by making a SSL certificate. A certificate is just a section of letters and numbers that only your site knows, similar to a truly long secret password. At the point when individuals visit your webpage by means of HTTPS that password is checked, and on the off chance that it matches, it automatically verifies that your website is who you say it is – and it encrypts everything streaming to and from it.

In fact, this is something you can make yourself (called a 'self-marked cert'), but all mainstream programs check with "Certificate Authorities" (CA's) which additionally have a duplicate of that long password and can vouch for you. To be perceived by these specialists, you should buy a certificate through them.

NameCheap is the place where I purchase my certificates. They have a couple of alternatives, butt the one that I discover best is the GeoTrust QuickSSL. As of now it's \$46 each year, and it accompanies a site seal that you can put on your pages to show

you're secure – which is useful for getting your clients to confide in you. You'll just get it now, and afterward set it up by activating and installing it in the next steps.

#### 4.3 Step 3: Activate the Certificate

Note: Your web host may do this step for you – check with them before proceeding. This can get complicated and if you can wait 1-2 days it may be best to let them do it.

If you're activating the certificate yourself, the next step is to generate a CSR. It's easiest to do this within your web hosting control panel – such as WHM or cPanel. Go to the SSL/TLS admin area and choose to "Generate an SSL certificate and Signing Request". Fill out the fields in the screen underneath:

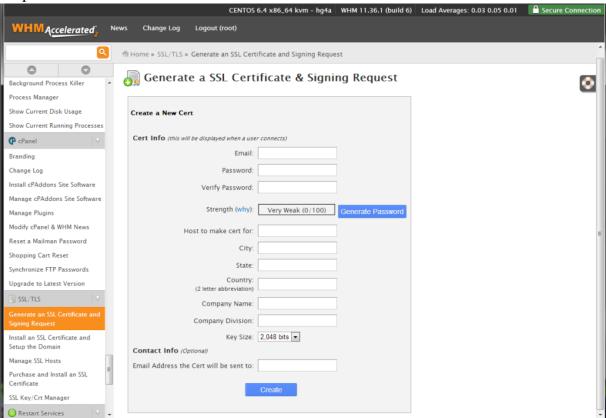


Figure 4.2: The fields information

#### 4.4 Step 4: Install the Certificate

If you're installing up the certificate yourself, this is the easiest step you'll ever do. You have the certificate in hand, all you need to do is paste it into your web host control panel. If you're using WHM.CPanel, click the "Install an SSL Certificate" from under the SSL/TLS menu. Paste it into the first box and hit submit. That's it! Now try to access your site.

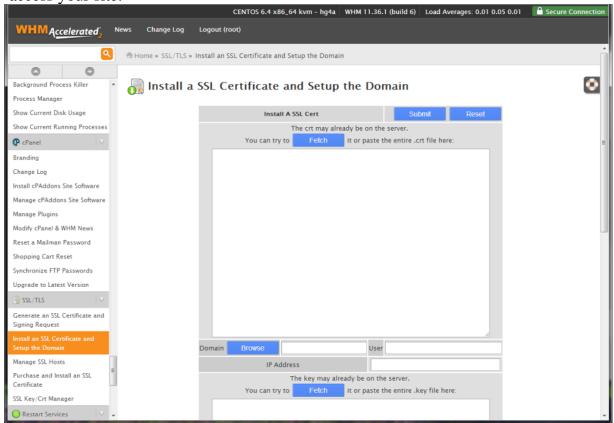


Figure 4.3: Install the Certificate

#### 4.5 Step 5: Update your site to use HTTPS

In the event that you need to guarantee that people can just utilize explicit pages safely regardless of what joins they come from, it's ideal to utilize a server-side way to deal with divert the client if it's not HTTPS. You can do that with a code snippet on top of your secure page. Here's one in PHP:

```
// Require https
if ($ SERVER['HTTPS'] != "on") {
    $url = "https://". $ SERVER['SERVER NAME'] . $ SERVER['REQUEST URI'];
    header("Location: $url");
    exit;
}
```

Figure 4.4: A code snippet

#### **REFERENCES**

#### Vietnamese

- 1. Hai G. (2021, May 11). Cách mua tên miền và sửa lỗi tên miền không vào được. Retrieved May 14, 2021, from Hostinger.vn: https://www.hostinger.vn/huong-dan/cach-mua-ten-mien.
- 2. Đình Long. (2021, March 6). *Hướng dẫn trỏ tên miền về hosting chi tiết nhất 2021*. Retrieved from dinhlongplus.com: https://dinhlongplus.com/huong-dan-tro-ten-mien-ve-hosting.
- 3. HostingViet. (2020, September 27). (Chia Se Hay) Hướng dẫn đăng ký Hosting miễn phí mới nhất 2020. Retrieved May 15, 2021, from hostingviet.vn: https://hostingviet.vn/huong-dan-dang-ky-hosting-mien-phi.

#### **English**

- 4. G, D. (2021, March 09). *How to Upload Your Website (in 6 Easy Steps)*. Retrieved from https://www.hostinger.com/: https://www.hostinger.com/tutorials/website/how-to-upload-your-website#1\_Pick\_a\_Reliable\_Web\_Hosting\_Company.
- 5. Admin, A. (2020, 10 01). How to Buy SSL certificate? Retrieved from aboutssl.org: https://aboutssl.org/buy-ssl-certificate/.