

SSL Generation Documentation

SSL Generation URL: <https://punchsalad.com/ssl-certificate-generator/>

Cpanel for SmartPowerBilling: <https://smartweb.com.ng/web/clientarea.php>

Step 1

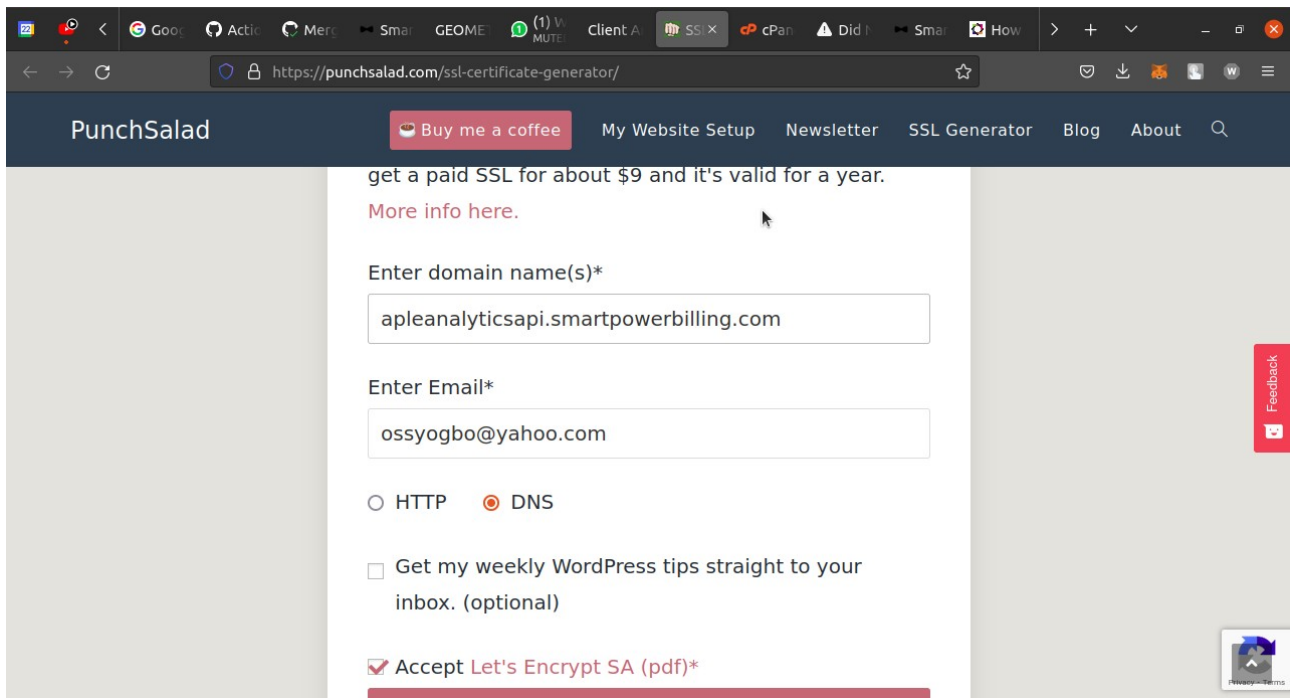
Open up the ssl generation website provided above, and filling in all required information

- domain name

- email

- Type (DNS)

then accept the conditions conditions and proceed to the next stage



The screenshot shows a web browser window with the URL <https://punchsalad.com/ssl-certificate-generator/>. The website has a dark blue header with the "PunchSalad" logo and navigation links: "Buy me a coffee", "My Website Setup", "Newsletter", "SSL Generator", "Blog", and "About". The main content area is white and contains the following text and form elements:

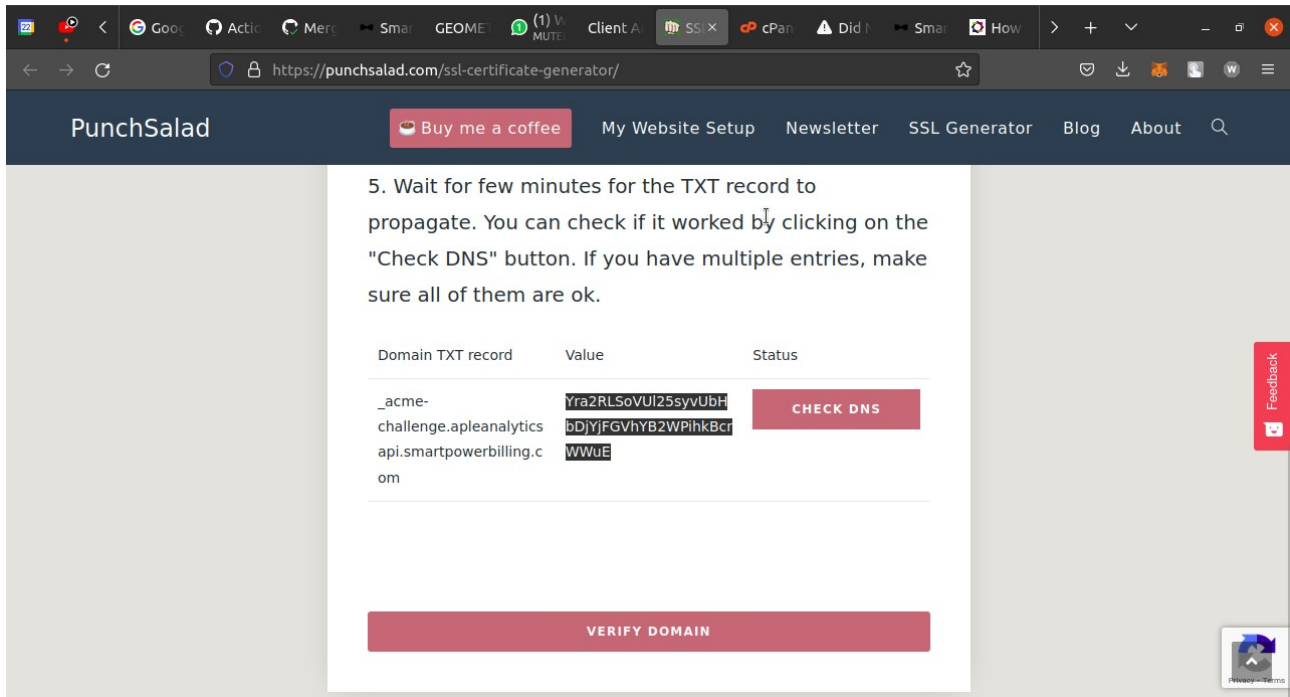
- A promotional message: "get a paid SSL for about \$9 and it's valid for a year. [More info here.](#)"
- A label "Enter domain name(s)*" followed by a text input field containing "apleanalytiscapi.smartpowerbilling.com".
- A label "Enter Email*" followed by a text input field containing "ossyogbo@yahoo.com".
- Two radio buttons for "Type": "HTTP" (unselected) and "DNS" (selected).
- A checkbox "Get my weekly WordPress tips straight to your inbox. (optional)" which is unchecked.
- A checkbox "Accept Let's Encrypt SA (pdf)*" which is checked.

A red "Feedback" button is visible on the right side of the page, and a small "Privacy Policy" icon is in the bottom right corner.

Step 2

After submission, the page below is loaded next with some information to perform on the cpanel for the host of “Smart Powe billing”.

Copy the value below, “Domain namt txt reocrd” and “Value”



The screenshot shows the PunchSalad SSL Generator interface. At the top, there's a navigation bar with the PunchSalad logo, a 'Buy me a coffee' button, and links for 'My Website Setup', 'Newsletter', 'SSL Generator', 'Blog', and 'About'. Below the navigation bar, a message states: '5. Wait for few minutes for the TXT record to propagate. You can check if it worked by clicking on the "Check DNS" button. If you have multiple entries, make sure all of them are ok.'

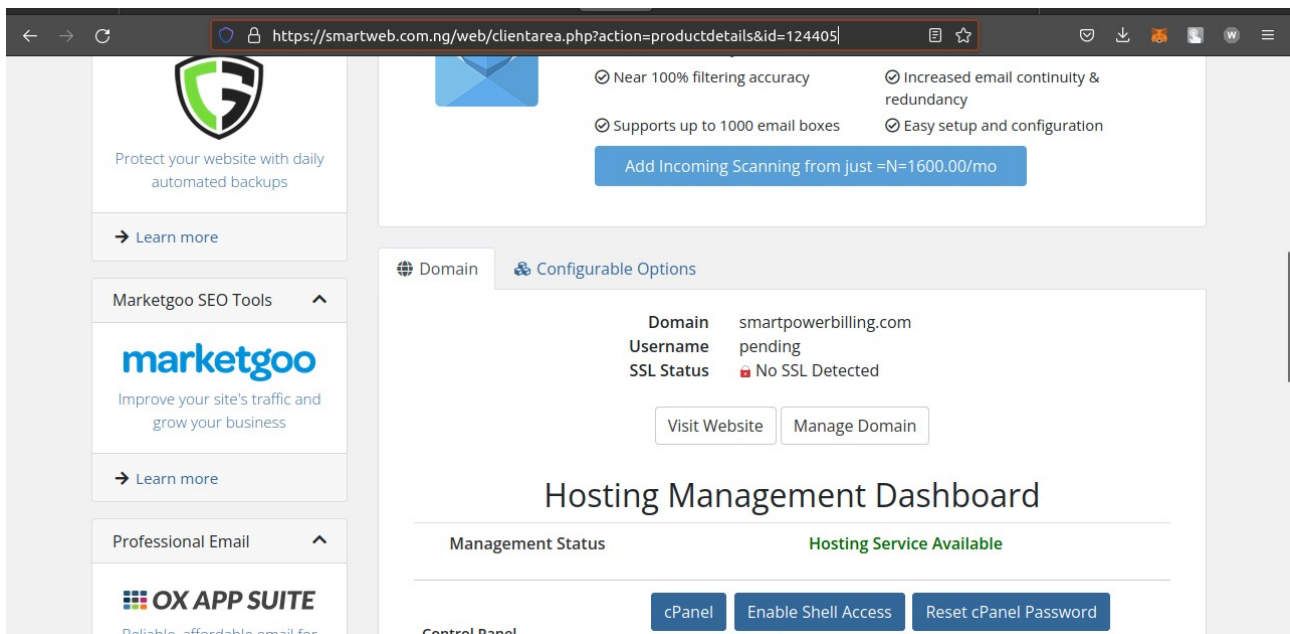
Below the message is a table with three columns: 'Domain TXT record', 'Value', and 'Status'. The table contains three rows of data:

Domain TXT record	Value	Status
_acme-	Yra2RLSoVUI25syvUbH	CHECK DNS
challenge.apleanalytics	bDjYjFGVhYB2WPihkBcr	
api.smartpowerbilling.com	WWuE	

At the bottom of the table, there is a large red button labeled 'VERIFY DOMAIN'. On the right side of the page, there is a vertical red 'Feedback' button and a small 'PunchSalad' logo at the bottom right.

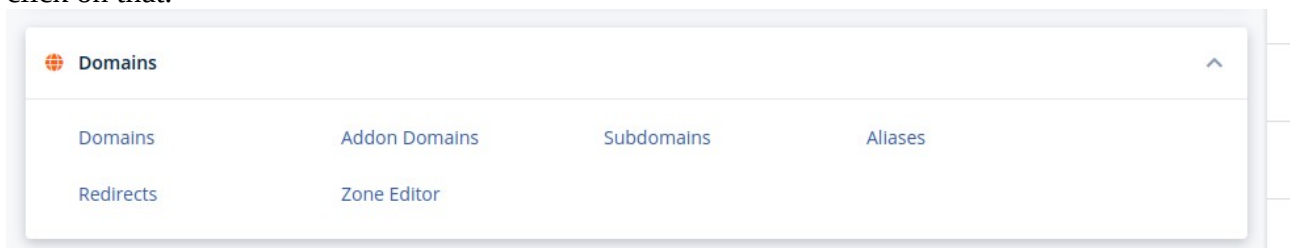
Step 3

Open up smart web ng,

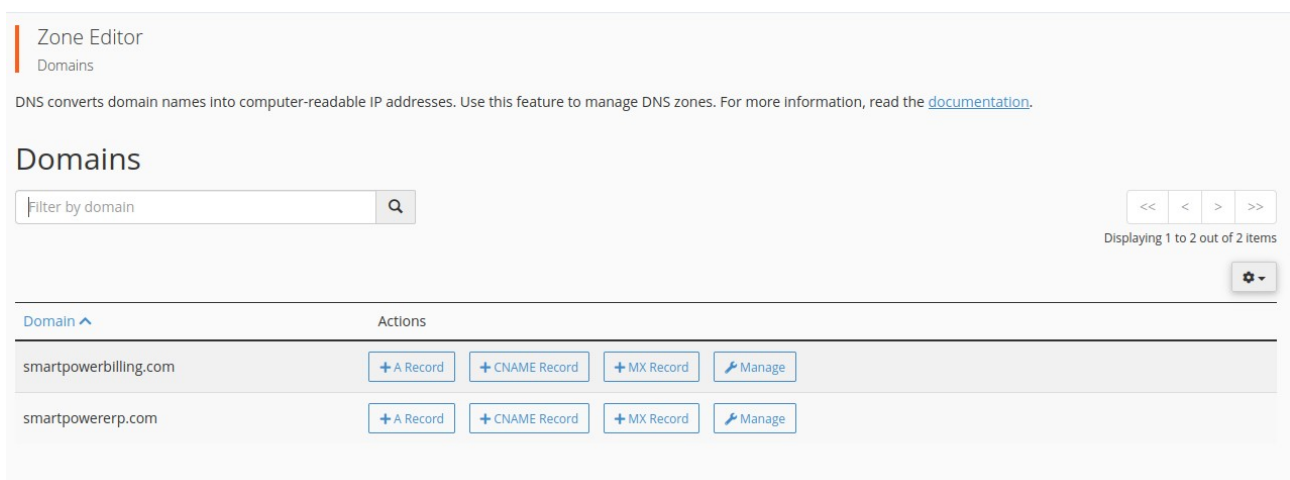


and locate the management dashboard for “smart power billing” and click on “cpanel” which should auto log you into the cpanel.

In the cpanel, locate “Domains”, underneath the submenus for domain, locate “Zone editor” and click on that.



- Next click on “smart power billing” in the page shown and click on “manage”



click on “Add Record”, which would provide a couple of text fields for value to be inputted from the step above.

- In the name field enter the “domain name txt record” from the step above,
- leave the TTL field as it is,
- In the type field, select “Txt”,
- in the record field enter the “Value” from the step above

then save the record

The screenshot shows the cPanel Zone Editor interface for the domain "smartpowerbilling.com". The page title is "Zone Editor" and the breadcrumb is "Domains / Manage Zone". A description states: "DNS converts domain names into computer-readable IP addresses. Use this feature to manage DNS zones. For more information, read the [documentation](#)."

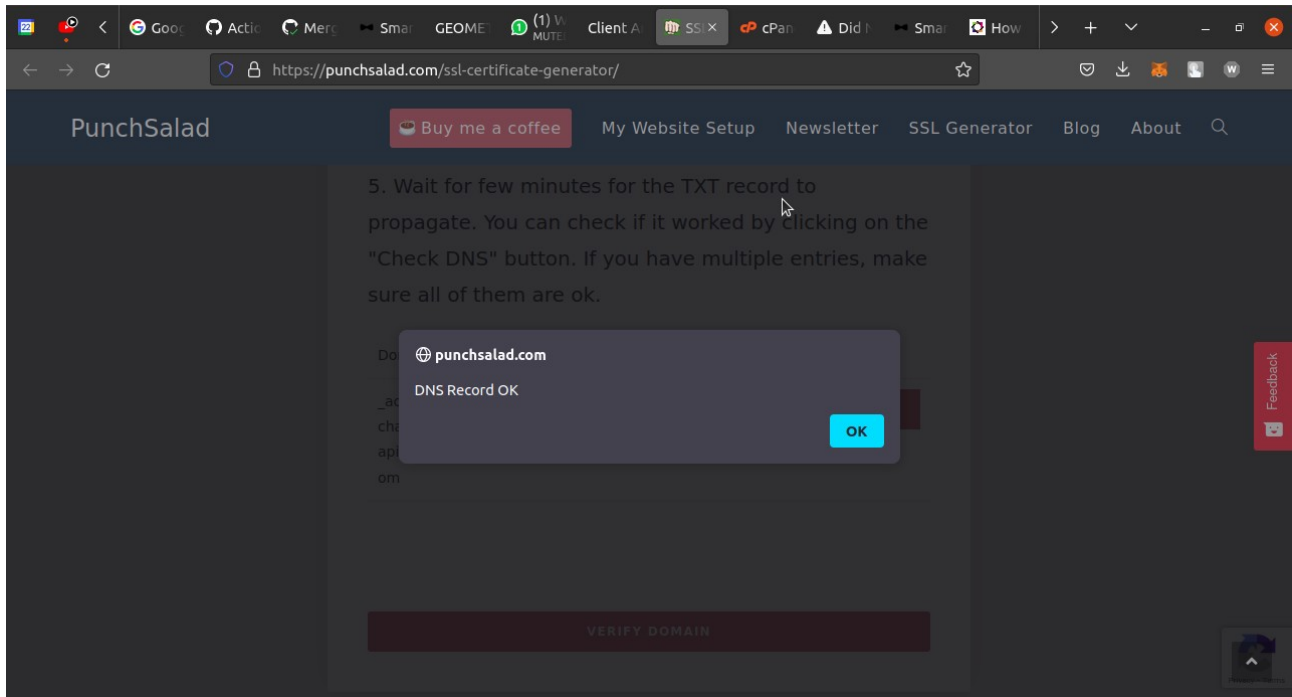
The main heading is "Zone Records for 'smartpowerbilling.com'". Below this is a search bar "Filter by name" and a filter dropdown set to "All". The filter options are "All", "A", "CNAME", "MX", "SRV", and "TXT". The text "Displaying 1 to 75 out of 75 items" is shown. There are buttons for "Actions", "Email Routing Configuration", "Save All Records", "Add Record", and a settings icon.

Name	TTL	Type	Record	Actions
<input type="text" value="_acme-challenge.apleanalyticsapl.smartpowerbi"/>	<input type="text" value="14400"/>	<input type="text" value="TXT"/>	<input type="text" value="Yra2RLSoVUI25syvUbHbDJYjFGVhYB2WPlhkBcrWWuE"/>	<input type="button" value="Save Record"/> <input type="button" value="Cancel"/>
+ Add TXT string to record				
smartpowerbilling.com.	14400	A	162.241.85.131	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

At the bottom, there is a search bar with the text "aplean" and search options: "Highlight All" (checked), "Match Case", "Match Diacritics", "Whole Words", and "Phrase not found".

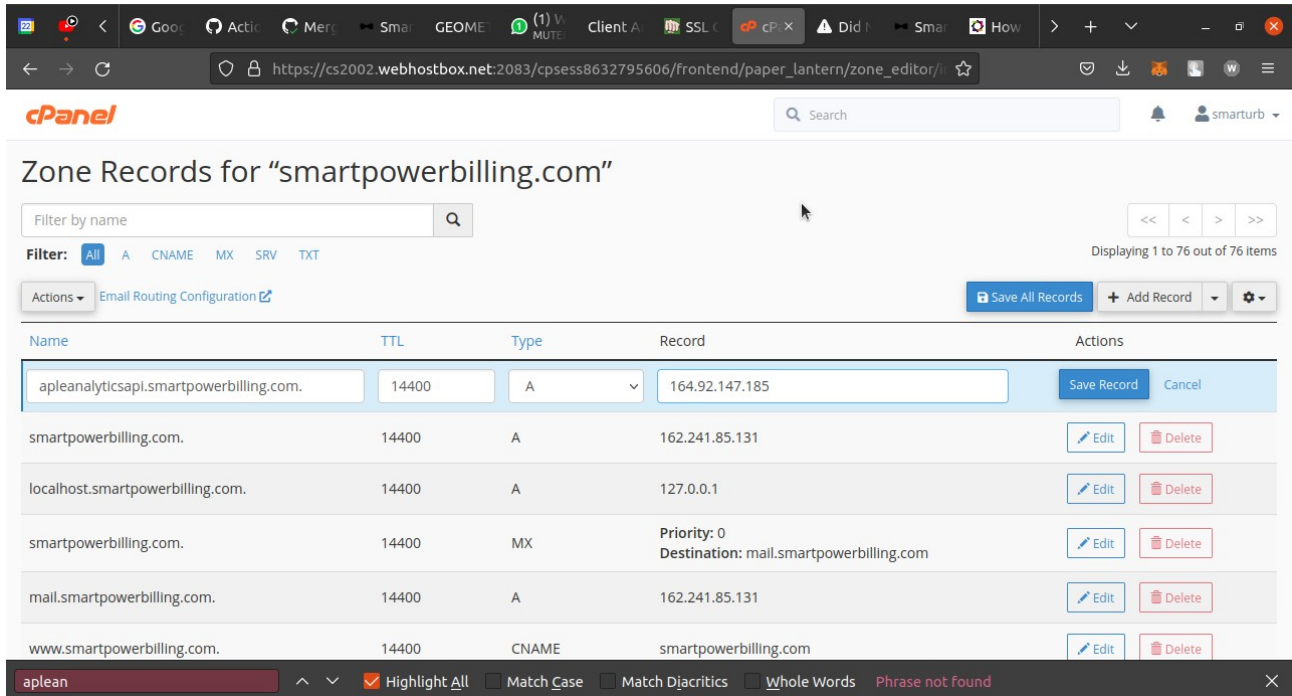
Step 4

Return to the SSL generated site, two steps above, and proceed to click on the “Check DNS” button which should return to your the image below.



Step 5

Head over to the cpanel to create a record by clicking on the “Add Record” button; the record should contain the necessary information for the required subdomain e.g apleportal.smartpowerbilling.com and the IP of the server.



The screenshot shows the cPanel interface for editing DNS zone records for the domain "smartpowerbilling.com". The page title is "Zone Records for 'smartpowerbilling.com'". There is a search bar and a filter dropdown set to "All". The table below lists existing records, and a new record is being added at the top.

Name	TTL	Type	Record	Actions
apleanalyticsapi.smartpowerbilling.com.	14400	A	164.92.147.185	Save Record Cancel
smartpowerbilling.com.	14400	A	162.241.85.131	Edit Delete
localhost.smartpowerbilling.com.	14400	A	127.0.0.1	Edit Delete
smartpowerbilling.com.	14400	MX	Priority: 0 Destination: mail.smartpowerbilling.com	Edit Delete
mail.smartpowerbilling.com.	14400	A	162.241.85.131	Edit Delete
www.smartpowerbilling.com.	14400	CNAME	smartpowerbilling.com	Edit Delete

At the bottom, there is a search bar with the text "aplean" and a status message "Phrase not found".

Click on submit and wait for the generation of the required certs to be completed, it takes a short time. You can close the popup to view the generated items.

static.mailerlite.com

Submit

Clear form


While waiting for the SSL to generate, I would love your advice...

[Sign in to Google](#) to save your progress. [Learn more](#)

*Required


On which YouTube thumbnail you would most likely click? *

FREE SEO CHECKER



☐ If you have a Website, TRY THIS

FREE SEO TOOL IN CHROME



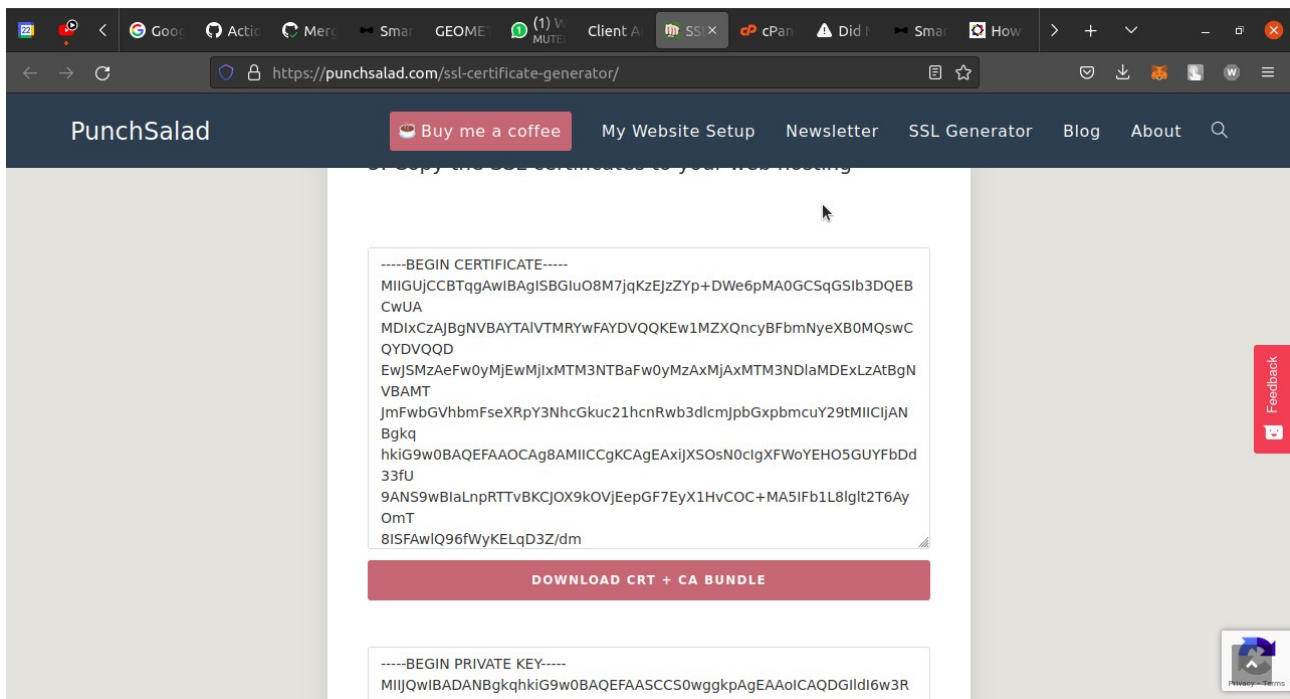
☐ If you have a Website, TRY THIS!

Feedback

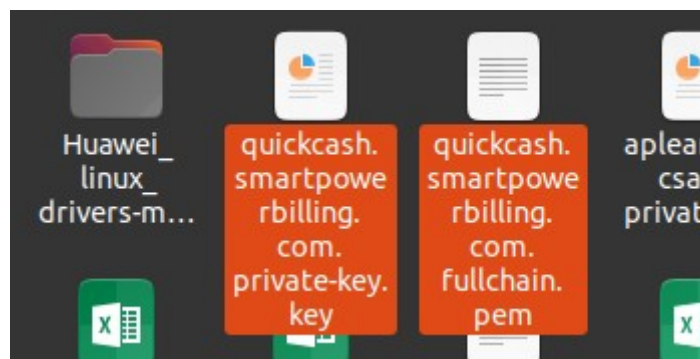
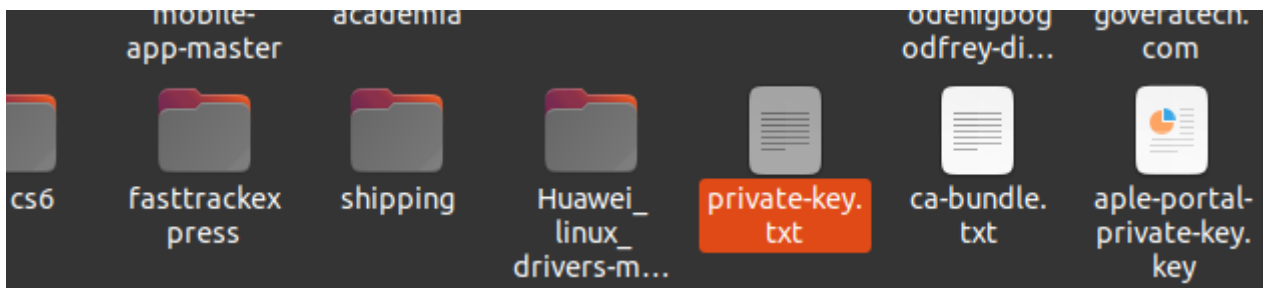
Privacy - Terms

Step 7

Save both generated files



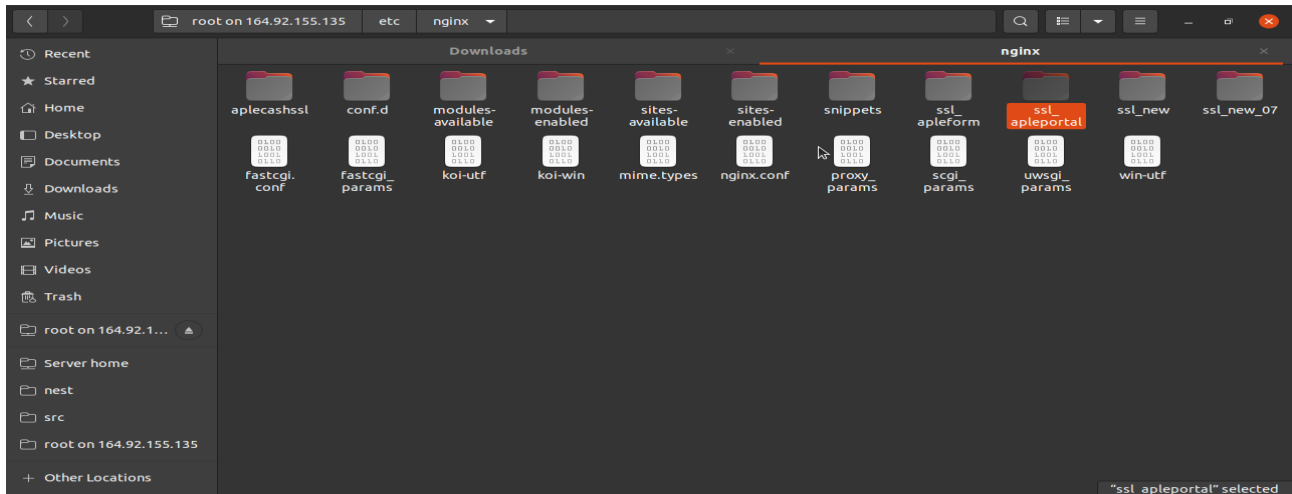
renaming the CRT + CA text bundle file to something like “apple-portal.fullchain.pem”
and renaming the private key text file to something like “apple-portal.private-key.key”



Step 8

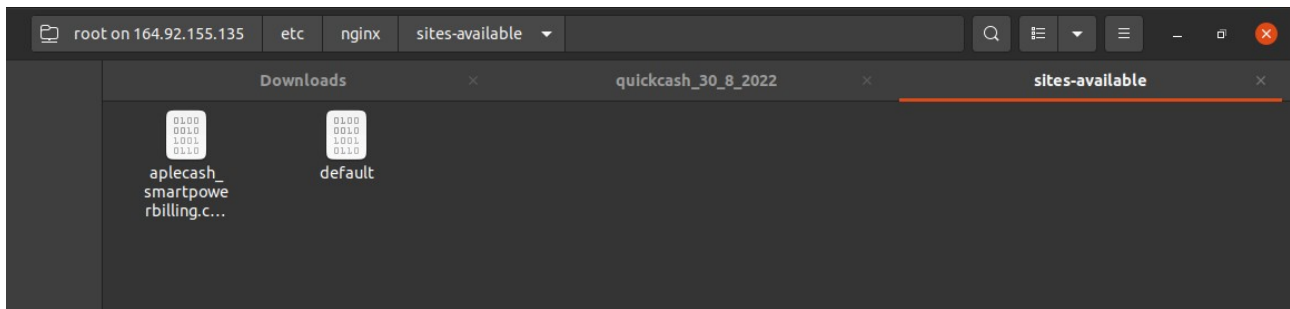
Login into the server where the application reside, via FTP or SSH, however FTP access would be adviced as its easier to navigate with.

Locate the folder: “*/etc /nginx/*”, pick any folder, however, “*SSL_NEW*” is should be used as company standard, and upload the download, renamed “*pem*” and “*key*” files.



Step 9

Locate the configuration (conf) file in the folder “/etc/nginx/sites-available”



open the file up to add the necessary records for the new domain name.

```
24     }  
25  
26     upstream quickcashview{  
27     | server 127.0.0.1:8080;  
28     }  
29
```

```
upstream quickcashview{  
server 127.0.0.1:8080;  
}
```

where 127.0.0.1 refers to localhost and port 8080 is where the application runs.

Step 10

After the last step, copy the text below and paste, as it provides for dept configuration for the item created in the step above.

```
server {
# listen [:] 443;
listen 443 ssl ;
listen [::]:443 ssl http2 ;
server_name quickcash.smartpowerbilling.com;
proxy_read_timeout 720s;
proxy_connect_timeout 720s;
proxy_send_timeout 720s;

# proxy_ssl_verify on;
add_header Strict-Transport-Security "max-age=63072000; includeSubDomains; preload";
add_header X-Frame-Options DENY;
add_header X-Content-Type-Options nosn;

ssl_certificate
/etc/nginx/ssl_new/quickcash_30_8_2022/quickcash.smartpowerbilling.com.fullchain.pem;
ssl_certificate_key
/etc/nginx/ssl_new/quickcash_30_8_2022/quickcash.smartpowerbilling.com.private-key.key;

ssl_protocols TLSv1.2;
ssl_ciphers 'ECDHE-RSA-AES128-GCM-SHA256:ECDHE-ECDSA-AES128-GCM-
SHA256:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-ECDSA-AES256-GCM-SHA384:DHE-RSA-
AES128-GCM-SHA256:DHE-DSS-AES128-GCM-SHA256:kEDH+AESGCM:ECDHE-RSA-
AES128-SHA256:ECDHE-ECDSA-AES128-SHA256:ECDHE-RSA-AES128-SHA:ECDHE-ECDSA-
AES128-SHA:ECDHE-RSA-AES256-SHA384:ECDHE-ECDSA-AES256-SHA384:ECDHE-RSA-
AES256-SHA:ECDHE-ECDSA-AES256-SHA:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-
SHA:DHE-DSS-AES128-SHA256:DHE-RSA-AES256-SHA256:DHE-DSS-AES256-SHA:DHE-RSA-
AES256-SHA:!aNULL:!eNULL:!EXPORT:!DES:!RC4:!3DES:!MD5:!PSK';
ssl_prefer_server_ciphers on;

# ssl_verify_client on;

access_log /var/log/nginx/ssl.access.log;
error_log /var/log/nginx/ssl.error.log;
# Handle longpoll requests
# location /longpolling {
# proxy_pass http://odoochat;
# }

location / {
proxy_redirect off;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-Host $host;
proxy_set_header X-Forwarded-Server $host;
```

```

proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header X-Forwarded-Proto $scheme;
proxy_redirect off;
proxy_pass http://quickcashview;
# root /var/www;
}

```

- Modify the following from the text above to point the location of the “pem” and “key” files to the correct newly generated files.

```

14
15 ssl_certificate /etc/nginx/ssl_new/quickcash_30_8_2022/quickcash.smartpowerbilling.com.fullchain.pem;
16 ssl_certificate_key /etc/nginx/ssl_new/quickcash_30_8_2022/quickcash.smartpowerbilling.com.private-key.key;
17
18

```

- Next is to modify the server_name variable to point to the correct domain name, in this instance, “quickcash.smartpowerbilling.com”

```

# listen [::] 443;
listen 443 ssl ;
listen [::]:443 ssl http2 ;
server_name quickcash.smartpowerbilling.com;
proxy_read_timeout 720s;

```

- Next is to modified modify the proxy_pass variable to point to the name of the service created in step 2 above.

```

# }

location / {
    proxy_redirect off;
    proxy_set_header Host $host;
    proxy_set_header X-Forwarded-Host $host;
    proxy_set_header X-Forwarded-Server $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
    proxy_redirect off;
    proxy_pass http://quickcashview;
    # root /var/www;
}

```

Step 11

Restart the nginx server using “systemctl restart nginx.service”