

How to Renew and Use Renewed SSL Certificate

(Implement Secure Web Server Using Third Party Certificates)

Warning Regarding Certificate Expiry



ZeroSSL Account
vipin2411@gmail.com

Certificate Expiring Soon: ocloud.in

This is to notify you that your certificate with the common name ocloud.in will expire in 7 days. To renew your certificate, please click the button below.

[Renew Certificate](#)

For more information about how to renew certificates on [ZeroSSL](#), please navigate to our [Help Center](#).

Need assistance? Our team here at [ZeroSSL](#) is ready to help with any questions you might have. Feel free to reach out by sending an email to support@zeross.com.

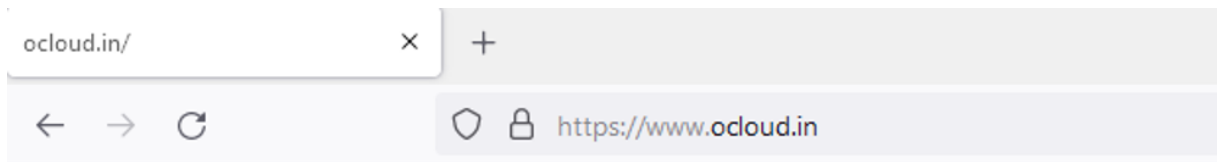
Thank you for choosing us,
[ZeroSSL](#) Team

[Help Center](#)

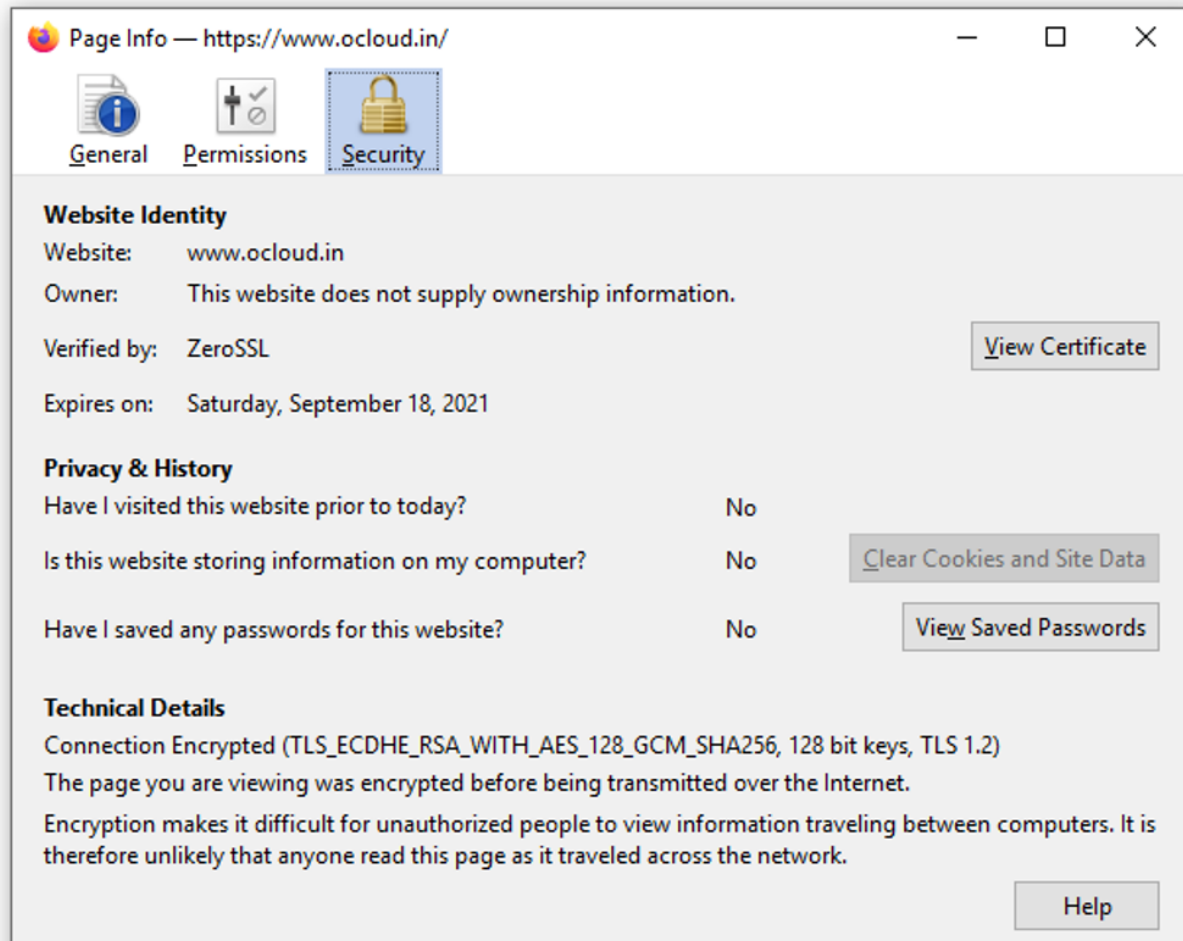
[Account Login](#)

Warning message regarding certificate expiry in your mail account.

Warning Regarding Certificate Expiry

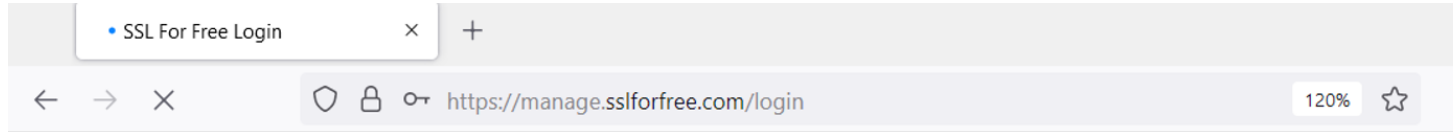


Apache Web Server Running in Cloud



Warning message regarding certificate expiry while checking website.

Go To www.sslforfree.com For Certificate Renewal



[Login to www.sslforfree.com](https://www.sslforfree.com)



[Login](#) [Register](#)

Sign In

Manage your SSL certificates and get notified of certification expirations.

Email Address

Password

[Forgot Password?](#)

Login

Renew Certificate

The screenshot shows the ZeroSSL dashboard interface. At the top left is the ZeroSSL logo. On the right, there are links for 'Help Center', 'Partner Program', and a user profile for 'vipin2411@gmail.com'. A 'Get Premium SSL' button is located on the left sidebar. The main heading is 'Certificates', with a 'New Certificate' button to its right and a search bar. Below the heading are tabs for 'Draft', 'Expiring Soon (1)', 'Issued', 'Pending Validation', 'Expired', and 'Cancelled'. The 'Issued' tab is active. A table below shows a single certificate entry with columns for 'TYPE', 'DOMAINS', 'STATUS', and 'EXPIRES'. The entry is a '90-Day SSL' for 'ocloud.in' with a status of 'Expiring Soon' (indicated by a yellow warning triangle) and an expiration date of 'Sep 17, 2021'. A 'Renew' button is visible next to the entry.

ZeroSSL

Help Center Partner Program vipin2411@gmail.com VI

Get Premium SSL

Certificates

New Certificate

Search + Hit Enter

Draft Expiring Soon (1) **Issued** Pending Validation Expired Cancelled

TYPE	DOMAINS	STATUS	EXPIRES
90-Day SSL	ocloud.in	Expiring Soon	Sep 17, 2021

Renew

Warning message regarding certificate expiry on certificate issuing website.
Click on Renew certificate.

Renew Certificate

Renew Certificate

Cancel

SSL Certificate Setup

You're on your way to issuing a brand-new SSL certificate for one or multiple domains. Before you can install your new certificate, please complete the steps below.

Domains

I need a wildcard certificate PRO

Please enter at least one domain to secure. For single-domain certificates the WWW-version of your domain will always be included at no extra charge.

Enter Domain

*.ocloud.in

> Validity

> CSR & Contact

> Finalize Your Order

Unselect “I need a wildcard certificate”.

Renew Certificate

Renew Certificate

Cancel

SSL Certificate Setup

You're on your way to issuing a brand-new SSL certificate for one or multiple domains. Before you can install your new certificate, please complete the steps below.

Domains

I need a wildcard certificate PRO

Please enter at least one domain to secure. For single-domain certificates the WWW-version of your domain will always be included at no extra charge.

Enter Domains

ocloud.in www.ocloud.in

PRO →

> Validity

> CSR & Contact

> Finalize Your Order

Unselect “I need a wildcard certificate”. Enter the domain for which you want to renew the certificate. In our case, domain name is “ocloud.in”.

Renew Certificate

Renew Certificate

Cancel

SSL Certificate Setup

You're on your way to issuing a brand-new SSL certificate for one or multiple domains. Before you can install your new certificate, please complete the steps below.

✓ Domains

∨ Validity

You can now choose between generating 90-day or one-year certificate validity. To keep manual work at a minimum, we recommend 1-year certificates.

90-Day Certificate

1-Year Certificate PRO

Next Step →

> CSR & Contact

> Finalize Your Order

Select validity period of 90-Day.

Renew Certificate

Renew Certificate

Cancel

SSL Certificate Setup

You're on your way to issuing a brand-new SSL certificate for one or multiple domains. Before you can install your new certificate, please complete the steps below.

✓ Domains

✓ Validity

∨ CSR & Contact

Before validation, we will auto-generate contact information and a CSR for your certificate. To enter your information manually or paste an existing CSR, please uncheck the box below.

Auto-Generate CSR ?

Next Step →

> Finalize Your Order

Select default setting of Auto-Generate CSR.

Renew Certificate

Finalize Your Order

Based on your selection of a 90-Day SSL Certificate you are fine staying on the Free Plan.
To create and validate your SSL Certificate, please click "Next Step" below.

Choose Free Plan.



Free

\$0 / month

Selected

- 3 90-Day Certificates
- × 1-Year Certificates
- × Multi-Domain Certs
- × 90-Day Wildcards
- × 1-Year Wildcards
- × REST API Access
- × Technical Support



Basic

\$10 / month
or \$8 if billed yearly

Select

- ∞ 90-Day Certificates
- 3 1-Year Certificates
- ✓ Multi-Domain Certs
- × 90-Day Wildcards
- × 1-Year Wildcards
- ✓ REST API Access
- ✓ Technical Support



Premium

\$50 / month
or \$40 if billed yearly

Select

- ∞ 90-Day Certificates
- 10 1-Year Certificates
- ✓ Multi-Domain Certs
- ∞ 90-Day Wildcards
- 1 1-Year Wildcards
- ✓ REST API Access
- ✓ Technical Support



Business

\$100 / month
or \$80 if billed yearly

Select

- ∞ 90-Day Certificates
- 25 1-Year Certificates
- ✓ Multi-Domain Certs
- ∞ 90-Day Wildcards
- 3 1-Year Wildcards
- ✓ REST API Access
- ✓ Technical Support



Next Step →

Choose Domain Verification Method

Email Verification

DNS (CNAME)

Follow the steps below

To verify your domain using a CNAME record, please follow the steps below:

- 1 Sign in to your DNS provider, typically the registrar of your domain.
- 2 Navigate to the section where DNS records are managed.
- 3 Add the following CNAME record:

Name

_6A1EC17B55059A682E7DC524461B4AE6.ocloud.in

Point To

8D2636FD2D950B9A744D46435DE4C1E7.908ABFF669E3C4B8F63554FA8F9F80D9.fd8af4ca3e5ae1e.comodoca.com

TTL

3600 (or lower)

- 4 Save your CNAME record and click "Next Step" to continue.

HTTP File Upload

Next Step →

> Finalize

Select domain verification Method.




Modify CNAME Record Using GoDaddy DNS Manager

ocloud.in

[Select a different domain](#)

Records

Last updated 14-09-2021 07:53 AM

Type	Name	Value	TTL	
A	@	52.15.85.32	1 Hour	
A	www	52.15.85.32	1 Hour	
CNAME	_6a1ec17b55059a68...	8d2636fd2d950b9a744d46435de4c1e7.908...	1 Hour	
NS	@	ns03.domaincontrol.com	1 Hour	
NS	@	ns04.domaincontrol.com	1 Hour	
SOA	@	Primary nameserver: ns03.domaincontrol.co...	1 Hour	

[ADD](#)

Verify Domain

Verify Domain

Verify Later

ocloud.in

Congratulations, your SSL certificate is en route! However, you need to verify ownership of your domain before installing your certificate. Please follow the steps below.

✓ Verification Method for ocloud.in

∨ Finalize

Domain	Verification Method	Verification Status
ocloud.in	DNS (CNAME)	🕒 To start, click "Verify Domains"

Verify Domain

Cancel Process & Restart

Domain Verification and Install Certificate

Install Certificate

Finish Later


🎉 Congratulations, your domains have been verified. This means that our system is issuing your certificate at the moment. This page will refresh automatically every few seconds.

ocloud.in

We've prepared installation instructions for all major server types.
To download and install your certificate, please follow the steps below:

- > Download Certificate
- > Install Certificate
- > Installation Complete

Looking for free, powerful SEO tools? Try our new product!


Try our product  **seobase**

Download Certificate

Opening ocloud.in.zip



You have chosen to open:

 **ocloud.in.zip**

which is: Compressed (zipped) Folder (6.6 KB)

from: blob:

What should Firefox do with this file?

Open with Windows Explorer (default) ▾

Save File

Do this automatically for files like this from now on.





OK

Cancel

Issued Certificates

Certificates New Certificate

[Draft](#) [Expiring Soon \(1\)](#) [Issued](#) [Pending Validation](#) [Expired](#) [Cancelled](#)

TYPE	DOMAINS	STATUS	EXPIRES	
 90-Day SSL	ocloud.in	 Issued	Dec 13, 2021	Install ▼
 90-Day SSL	ocloud.in	 Expiring Soon	Sep 17, 2021	Renew ▼

<< < 1 > >> Showing 2 results on 1 page

After Certificate Expiry

SSL For Free SSL For Free is a trusted partner of ZeroSSL Don't show again

ZeroSSL Help Center Partner Program vipin2411@gmail.com VI

Get Premium SSL **Certificates** New Certificate Search + Hit Enter

Dashboard Certificates Developer

Draft Expiring Soon **Issued** Pending Validation Expired Cancelled

TYPE	DOMAINS	STATUS	EXPIRES	
90-Day SSL	ocloud.in	Issued	Dec 13, 2021	Install



<< < 1 > >>

Showing 1 result on 1 page

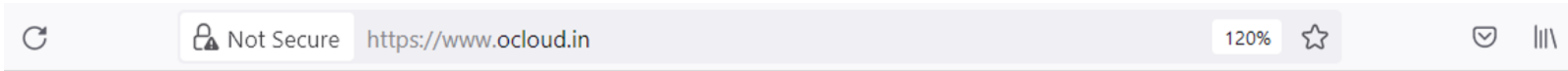
After Certificate Expiry

Certificates New Certificate

[Draft](#) [Expiring Soon](#) [Issued](#) [Pending Validation](#) [Expired](#) [Cancelled](#)

TYPE	DOMAINS	STATUS	EXPIRES	
 90-Day SSL	ocloud.in	 Expired	Sep 17, 2021	Renew ▼

After Certificate Expiry



Warning: Potential Security Risk Ahead

Firefox detected an issue and did not continue to www.ocloud.in. The website is either misconfigured or your computer clock is set to the wrong time.

It's likely the website's certificate is expired, which prevents Firefox from connecting securely. If you visit this site, attackers could try to steal information like your passwords, emails, or credit card details.

What can you do about it?

The issue is most likely with the website, and there is nothing you can do to resolve it. You can notify the website's administrator about the problem.

[Learn more...](#)

[Go Back \(Recommended\)](#)

[Advanced...](#)

After Certificate Expiry

Websites prove their identity via certificates, which are valid for a set time period. The certificate for www.ocloud.in expired on 9/18/2021.

Error code: [SEC_ERROR_EXPIRED_CERTIFICATE](#)

[View Certificate](#)

[Go Back \(Recommended\)](#)

[Accept the Risk and Continue](#)

After Certificate Expiry

Certificate

ocloud.in

ZeroSSL RSA Domain Secure Site CA

Subject Name

Common Name ocloud.in

Issuer Name

Country AT
Organization ZeroSSL
Common Name [ZeroSSL RSA Domain Secure Site CA](#)

Validity

Not Before Sat, 19 Jun 2021 00:00:00 GMT
Not After Fri, 17 Sep 2021 23:59:59 GMT

After Certificate Expiry

Page Info — https://www.ocloud.in/

General Media Permissions **Security**

Website Identity

Website: www.ocloud.in
Owner: This website does not supply ownership information.
Verified by: ZeroSSL [View Certificate](#)
Expires on: Saturday, September 18, 2021

Privacy & History

Have I visited this website prior to today? No
Is this website storing information on my computer? No [Clear Cookies and Site Data](#)
Have I saved any passwords for this website? No [View Saved Passwords](#)

Technical Details

Connection Not Encrypted
The website www.ocloud.in does not support encryption for the page you are viewing.
Information sent over the Internet without encryption can be seen by other people while it is in transit.

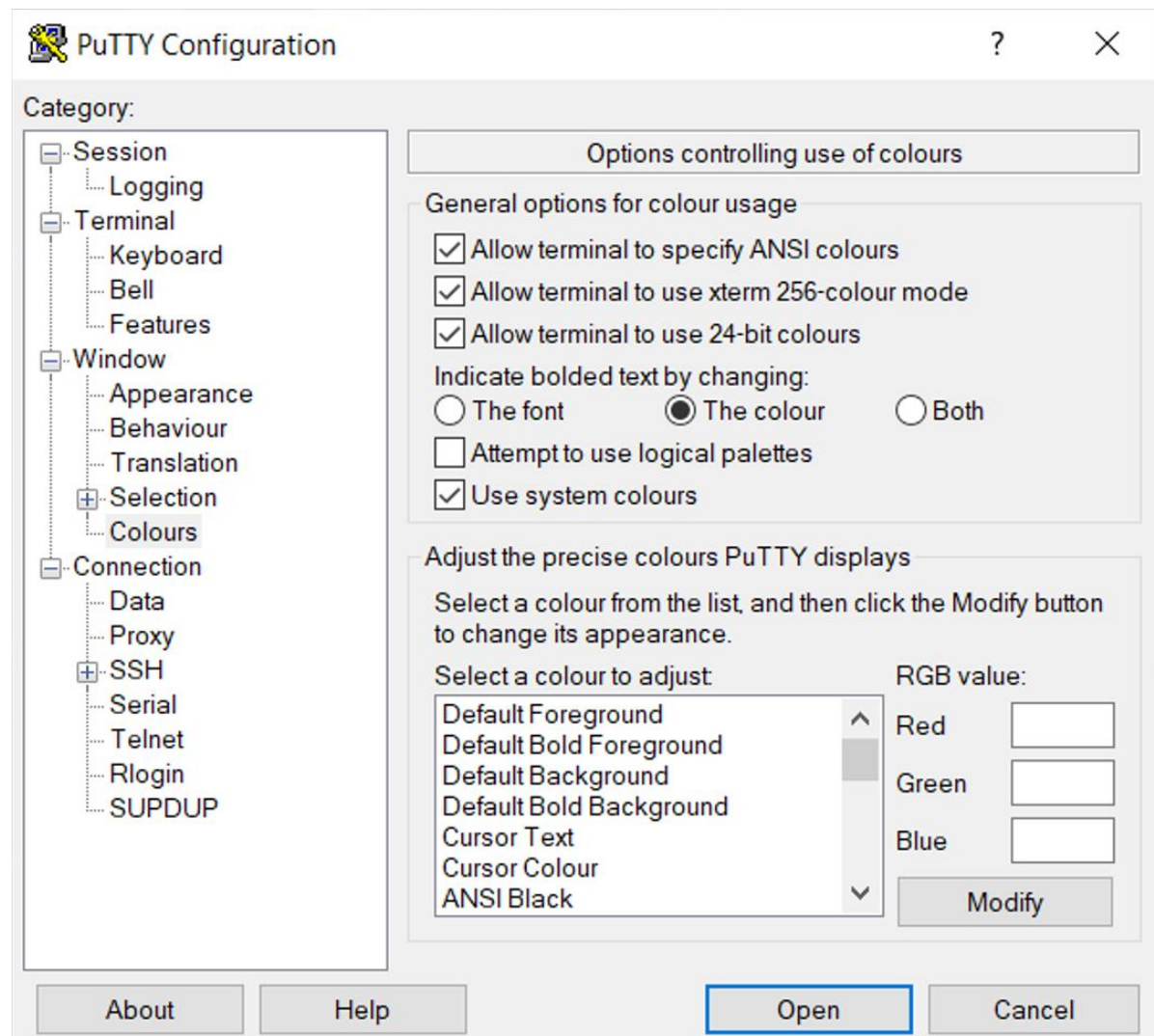
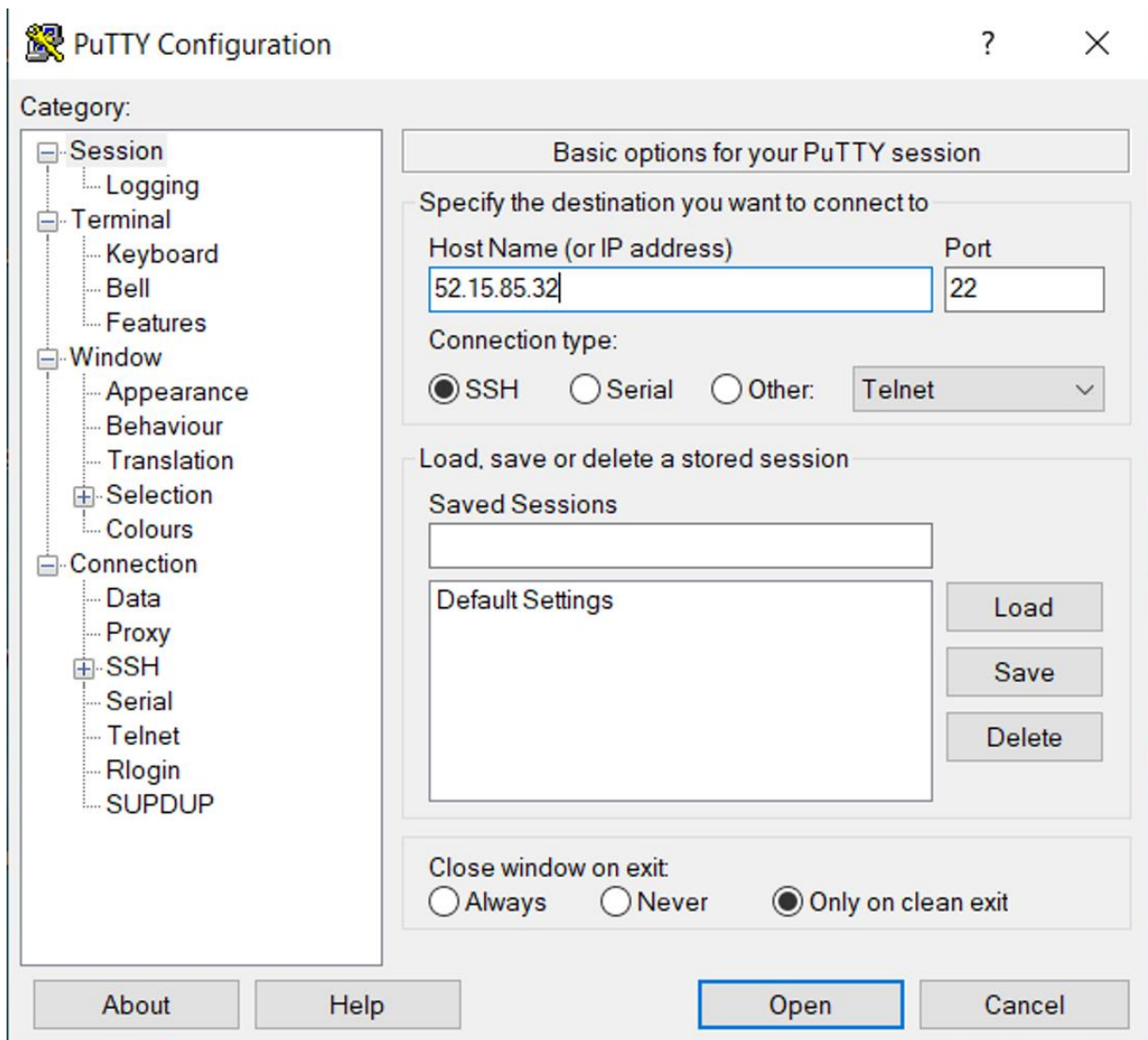
[Help](#)

4:16:46 PM
Thursday, October 21, 2021

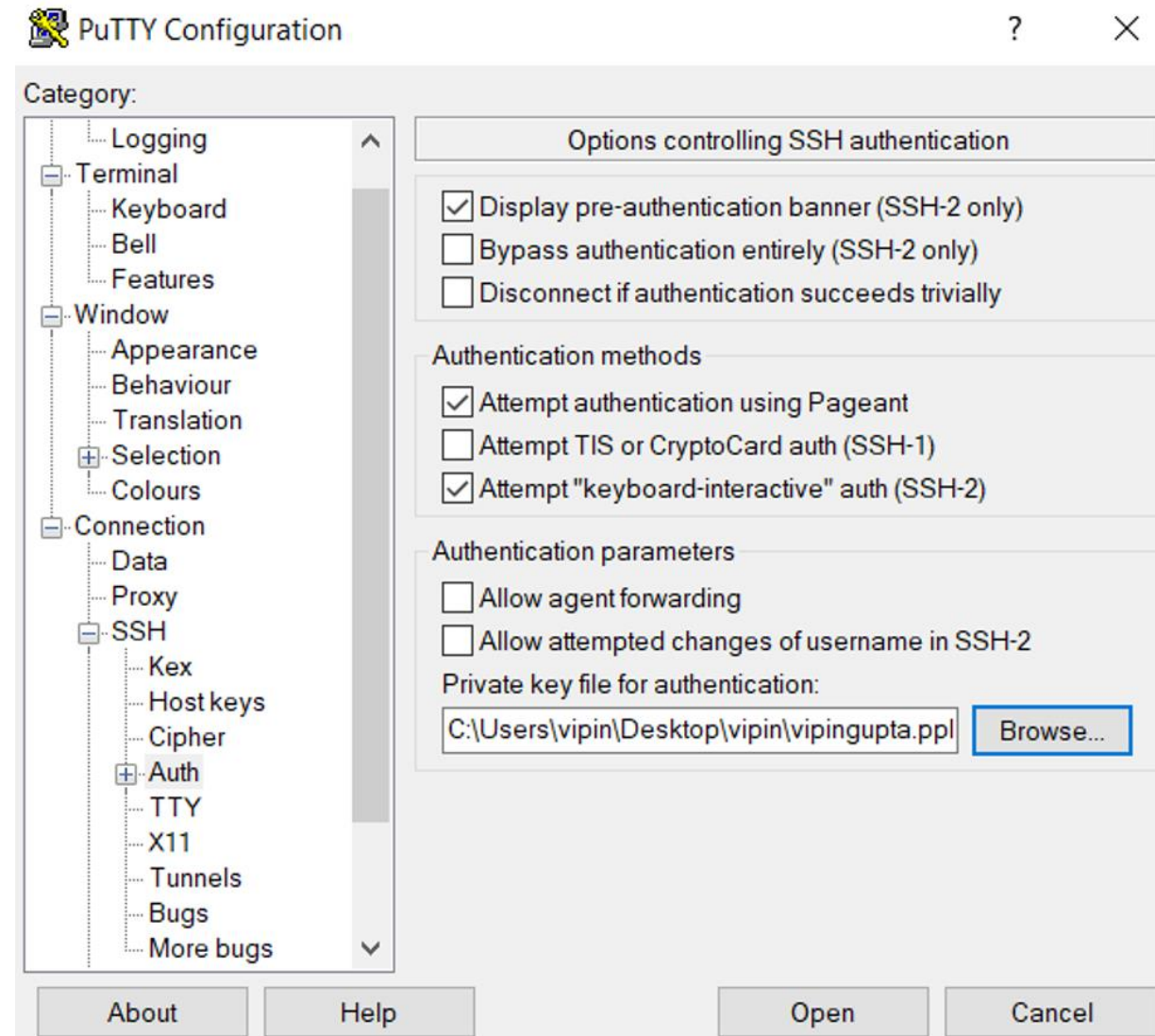
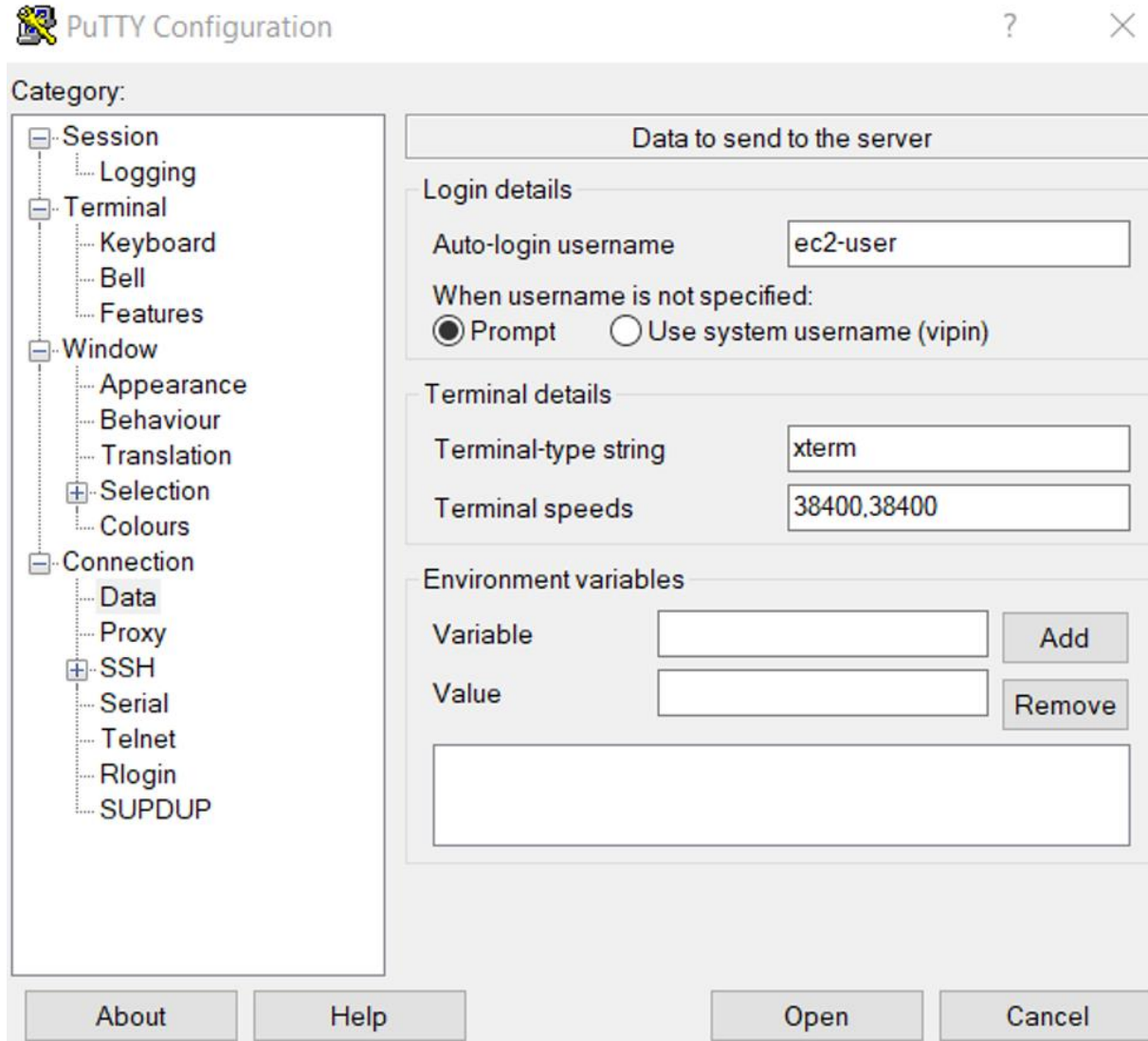
October 2021

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

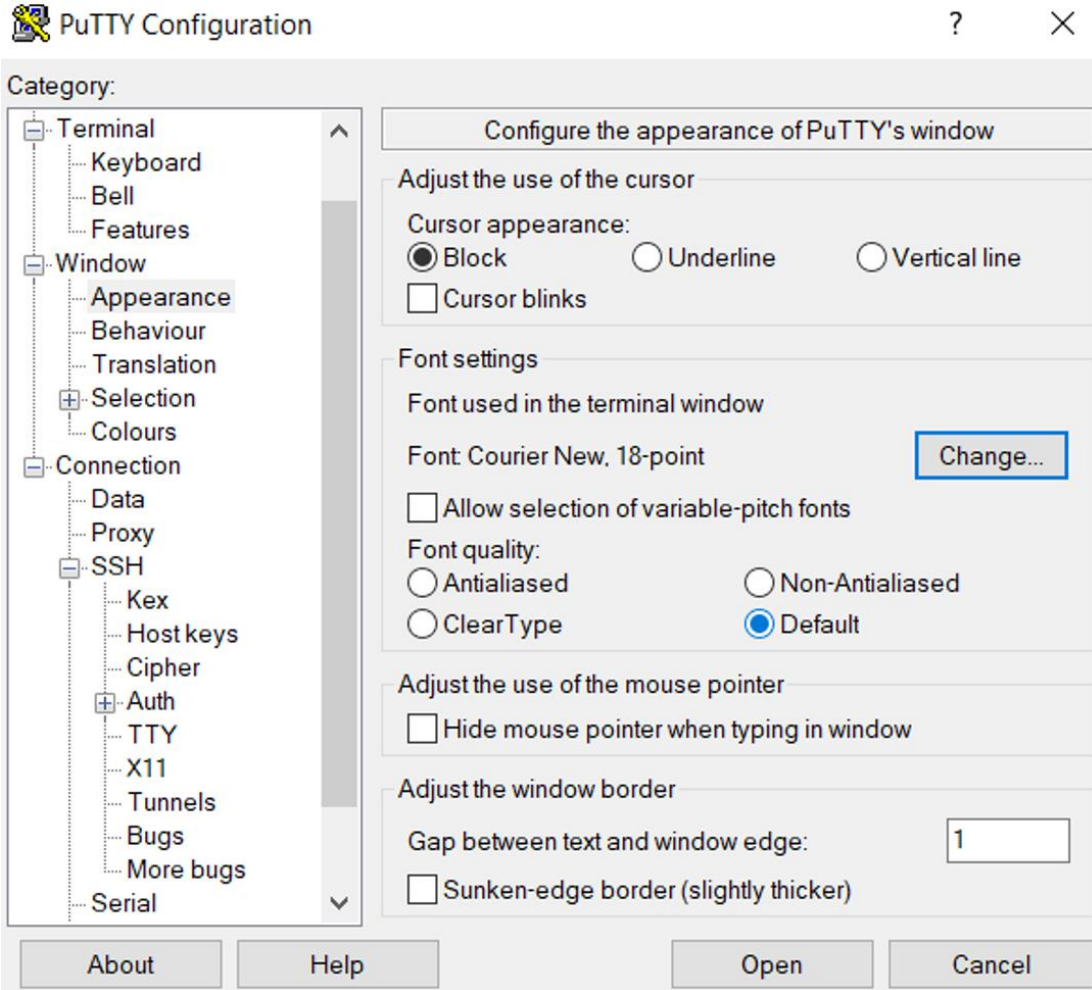
Renewed Certificate Installation Hands On



Renewed Certificate Installation Hands On



Renewed Certificate Installation Hands On




```
ec2-user@ip-172-31-10-197:~  
Using username "ec2-user".  
Authenticating with public key "imported-openssh-key"  
Last login: Sat Sep  4 05:10:25 2021 from 157.39.223.250
```

```
  _ | ( _ | _ )  
  _ | ( _ | /   Amazon Linux 2 AMI  
  _ | \ _ | _ |
```

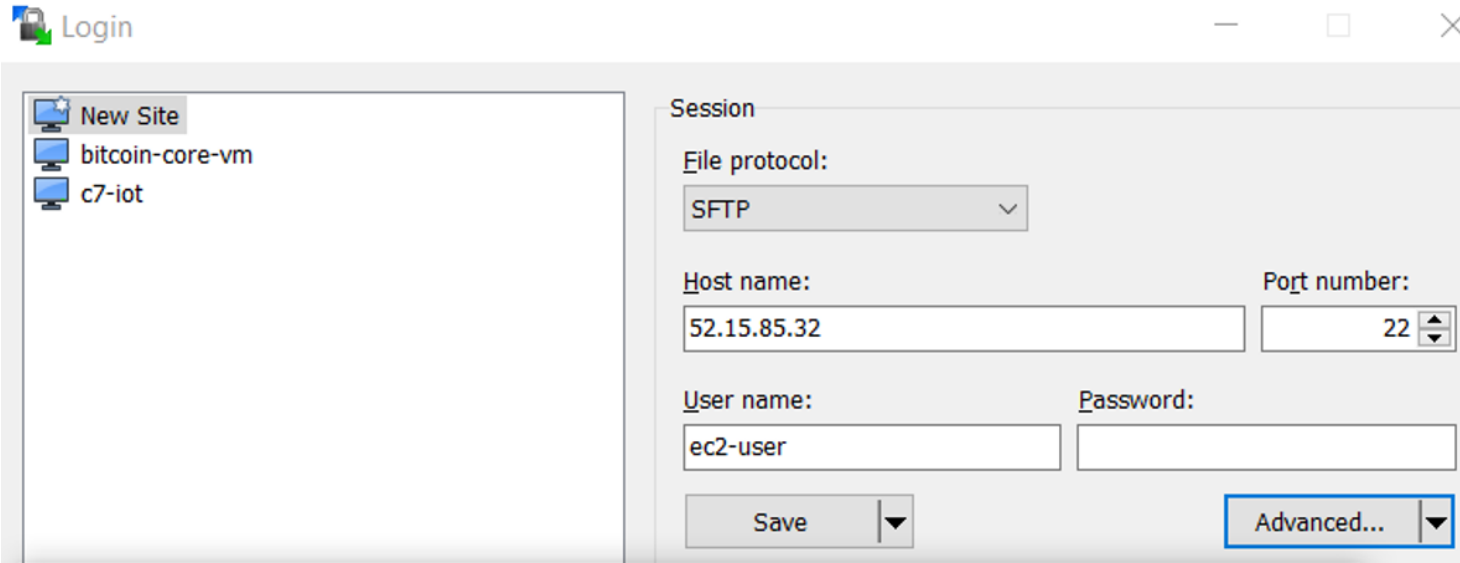
```
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-10-197 ~]$ pwd  
/home/ec2-user  
[ec2-user@ip-172-31-10-197 ~]$ ls  
domain-verification.rtf  index.html  ocloud.in.zip  
[ec2-user@ip-172-31-10-197 ~]$  
[ec2-user@ip-172-31-10-197 ~]$ █
```

Renewed Certificate Installation Hands On

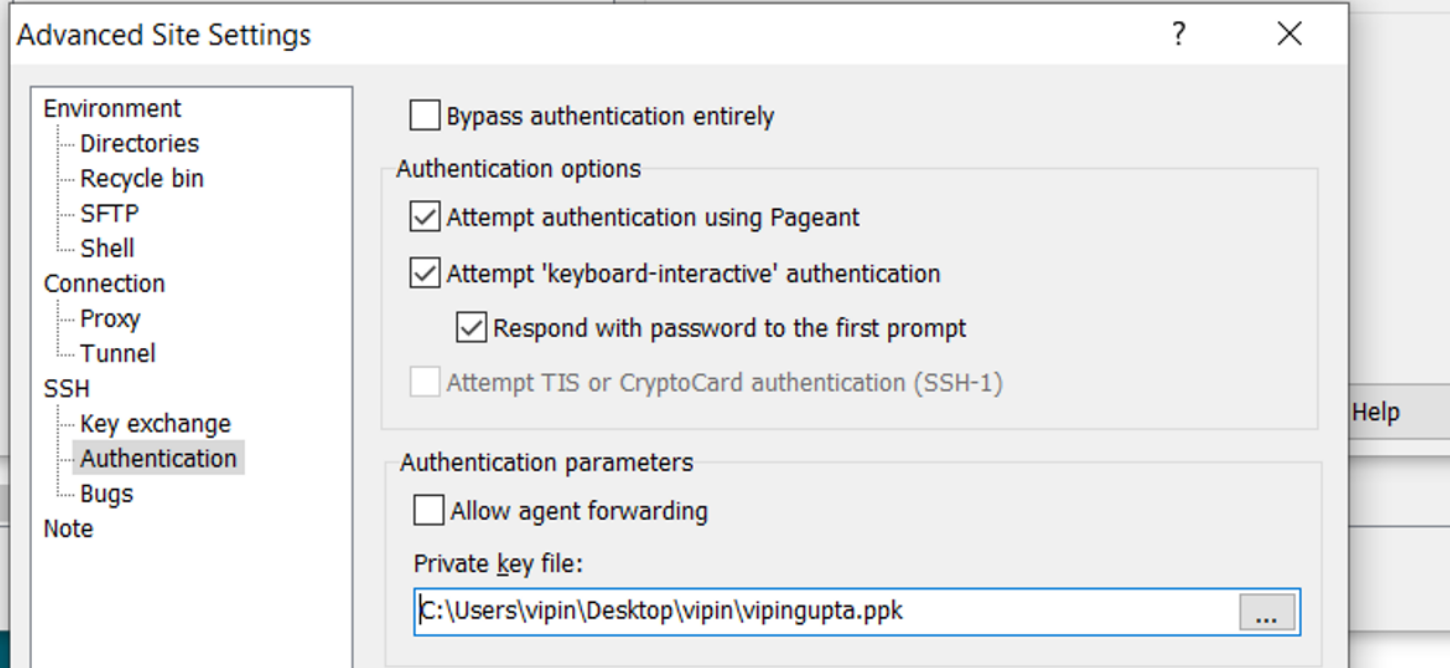
 ec2-user@ip-172-31-10-197:~

```
[ec2-user@ip-172-31-10-197 ~]$ ls
domain-verification.rtf  index.html  ocloud.in.zip
[ec2-user@ip-172-31-10-197 ~]$
[ec2-user@ip-172-31-10-197 ~]$ rm -f ocloud.in.zip
[ec2-user@ip-172-31-10-197 ~]$
[ec2-user@ip-172-31-10-197 ~]$ ls
domain-verification.rtf  index.html
[ec2-user@ip-172-31-10-197 ~]$ _
```

Renewed Certificate Installation Hands On



Use WinSCP to upload certificate to AWS EC2 Instance.



Renewed Certificate Installation Hands On

ec2-user@52.15.85.32



Searching for host...

Connecting to host...

Authenticating...

Using username "ec2-user".

Authenticating with public key "imported-openssh-key".

Authenticated.

Starting the session...

Use WinSCP to upload certificate to AWS EC2 Instance.

Renewed Certificate Installation Hands On

The screenshot shows the WinSCP interface with two panes. The left pane shows the local file system at `C:\Users\vipin\Desktop\apache-web-server\domain-verification`. The right pane shows the remote file system at `/home/ec2-user`. The local pane contains files `domain-verification.rtf` and `ocloud.in.zip`. The remote pane contains files `domain-verification.rtf` and `index.html`. The `ocloud.in.zip` file is highlighted in the local pane.

Name	Size	Type	Changed
..		Parent directory	9/14/202
domain-verification.rtf	1 KB	Rich Text Document	9/14/202
ocloud.in.zip	7 KB	Compressed (zipp...	9/14/202

Name	Size	Changed	Rights	Owner
..		8/8/2021 3:18:42 PM	rw-r-xr-x	root
domain-verification.rtf	1 KB	6/19/2021 12:36:13 PM	rw-rw-r--	ec2-user
index.html	1 KB	9/2/2021 7:54:38 PM	rw-rw-r--	ec2-user

Use WinSCP to upload certificate to AWS EC2 Instance.

Renewed Certificate Installation Hands On

The screenshot shows the WinSCP interface with two panels. The left panel shows the local file system at `C:\Users\vipin\Desktop\apache-web-server\domain-verification`. The right panel shows the remote file system at `/home/ec2-user`. Both panels display a list of files: `..`, `domain-verification.rtf`, and `ocloud.in.zip`. The `ocloud.in.zip` file is highlighted in both panels, indicating it is being synchronized.

Name	Size	Type	Changed
..		Parent directory	9/14/202
domain-verification.rtf	1 KB	Rich Text Document	9/14/202
ocloud.in.zip	7 KB	Compressed (zipp...	9/14/202

Name	Size	Changed	Rights	Owner
..		8/8/2021 3:18:42 PM	rw-r-xr-x	root
domain-verification.rtf	1 KB	6/19/2021 12:36:13 PM	rw-rw-r--	ec2-user
index.html	1 KB	9/2/2021 7:54:38 PM	rw-rw-r--	ec2-user
ocloud.in.zip	7 KB	9/14/2021 7:58:20 AM	rw-rw-r--	ec2-user

Use WinSCP to upload certificate to AWS EC2 Instance.

Renewed Certificate Installation Hands On

ec2-user@ip-172-31-10-197:~

```
[ec2-user@ip-172-31-10-197 ~]$ ls  
domain-verification.rtf  index.html  ocloud.in.zip
```

Unzip certificate file.

```
[ec2-user@ip-172-31-10-197 ~]$  
[ec2-user@ip-172-31-10-197 ~]$ unzip ocloud.in.zip
```

```
Archive:  ocloud.in.zip  
  extracting: certificate.crt  
  extracting: ca_bundle.crt  
  extracting: private.key
```

```
[ec2-user@ip-172-31-10-197 ~]$  
[ec2-user@ip-172-31-10-197 ~]$ ls  
ca_bundle.crt      domain-verification.rtf  ocloud.in.zip  
certificate.crt    index.html               private.key
```


```
[ec2-user@ip-172-31-10-197 ~]$ _
```

Move Certificate Files and Private Key

```
root@ip-172-31-10-197:/home/ec2-user
[ec2-user@ip-172-31-10-197 ~]$ sudo -s
[root@ip-172-31-10-197 ec2-user]#
[root@ip-172-31-10-197 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-10-197 ec2-user]# mv ca_bundle.crt certificate.crt /etc/pki/tls/certs/
mv: overwrite '/etc/pki/tls/certs/ca_bundle.crt'? y
mv: overwrite '/etc/pki/tls/certs/certificate.crt'? y
[root@ip-172-31-10-197 ec2-user]#
[root@ip-172-31-10-197 ec2-user]# mv private.key /etc/pki/tls/private/
mv: overwrite '/etc/pki/tls/private/private.key'? y
[root@ip-172-31-10-197 ec2-user]# _
```

Move Certificate Files and Private Key. Enter 'y' on getting overwrite messages.

Restart Apache

 root@ip-172-31-10-197:/home/ec2-user

```
[root@ip-172-31-10-197 ec2-user]# ls
```

```
domain-verification.rtf  index.html  ocloud.in.zip
```

```
[root@ip-172-31-10-197 ec2-user]#
```

```
[root@ip-172-31-10-197 ec2-user]# systemctl restart httpd
```

```
[root@ip-172-31-10-197 ec2-user]#
```

Verify



Apache Web Server Running in Cloud

Page Info — https://www.ocloud.in

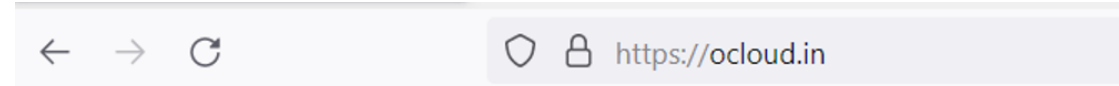
General Permissions **Security**

Website Identity
Website: www.ocloud.in
Owner: This website does not supply ownership information.
Verified by: ZeroSSL [View Certificate](#)
Expires on: Tuesday, December 14, 2021

Privacy & History
Have I visited this website prior to today? No
Is this website storing information on my computer? No [Clear Cookies and Site Data](#)
Have I saved any passwords for this website? No [View Saved Passwords](#)

Technical Details
Connection Encrypted (TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256, 128 bit keys, TLS 1.2)
The page you are viewing was encrypted before being transmitted over the Internet.
Encryption makes it difficult for unauthorized people to view information traveling between computers. It is therefore unlikely that anyone read this page as it traveled across the network.

[Help](#)



Apache Web Server Running in Cloud

Page Info — https://ocloud.in/

General Permissions **Security**

Website Identity
Website: ocloud.in
Owner: This website does not supply ownership information.
Verified by: ZeroSSL [View Certificate](#)
Expires on: Tuesday, December 14, 2021

Privacy & History
Have I visited this website prior to today? No
Is this website storing information on my computer? No [Clear Cookies and Site Data](#)
Have I saved any passwords for this website? No [View Saved Passwords](#)

Technical Details
Connection Encrypted (TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256, 128 bit keys, TLS 1.2)
The page you are viewing was encrypted before being transmitted over the Internet.
Encryption makes it difficult for unauthorized people to view information traveling between computers. It is therefore unlikely that anyone read this page as it traveled across the network.

[Help](#)