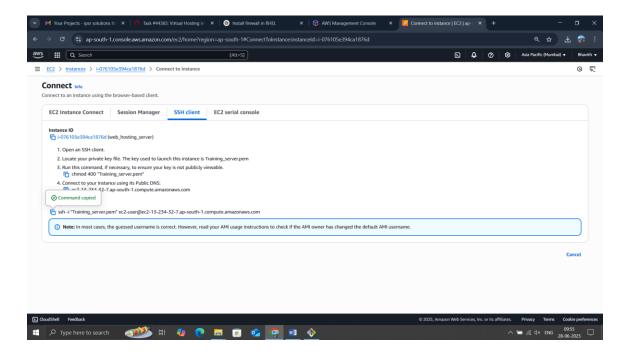
Host a PHP Website – Simple Guide

- 1. Launch an EC2 Instance:
- Use Amazon Linux or RHEL AMI.
- Choose t2.micro (free tier eligible).
- Allow HTTP and SSH in the security group.



- 2. Connect to EC2 Using Git Bash:
- Use the command:ssh -i your-key.pem ec2-user@your-public-ip

```
bhavi@DESKTOP-ICDTIRO MINGW64 ~/Downloads
$ ssh -i "Training_server.pem" ec2-user@ec2-13-234-32-7.ap-south-1.compute.amazonaws.com
Register this system with Red Hat Insights: rhc connect

Example:
# rhc connect --activation-key <key> --organization <org>

The rhc client and Red Hat Insights will enable analytics and additional
management capabilities on your system.
View your connected systems at https://console.redhat.com/insights

You can learn more about how to register your system
using rhc at https://red.ht/registration
Last login: Sat Jun 28 04:22:56 2025 from 49.47.197.35
```

- 3. Install Apache and PHP:
- Run the following:
 sudo yum install httpd php -y

```
[ec2-user@ip-172-31-41-103 ~]$ sudo yum install php -y
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Last metadata expiration check: 0:54:15 ago on Sat Jun 28 04:47:06 2025.
Package php-8.3.19-1.ell0_0.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

- 4. Install, Start and Enable Apache:
- Commands:

Sudo yum install httpd sudo systemctl start httpd sudo systemctl enable httpd

```
[ec2-user@ip-172-31-41-103 ~]$ sudo yum install httpd
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Red Hat Enterprise Linux 10 for x86_64 - AppStream from RHUI (RPMs)

Red Hat Enterprise Linux 10 for x86_64 - BaseOS from RHUI (RPMs)

Red Hat Enterprise Linux 10 for cx86_64 - BaseOS from RHUI (RPMs)

Package httpd-2.4.63-1.ell0.x86_64 is already installed.

Dependencies resolved.

Nothing to do.

Complete!
```

```
[ec2-user@ip-172-31-41-103 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-41-103 ~]$ sudo systemctl enable httpd
[ec2-user@ip-172-31-41-103 ~]$
```

- 5. Create a User and Website Directory:
- Run:

sudo useradd bhavith sudo passwd bhavith sudo mkdir /home/bhavith/public_html sudo chown -R bhavith:bhavith /home/bhavith/public_html

```
[ec2-user@ip-172-31-41-103 ~]$ sudo useradd bhavith sudo passwd bhavith sudo mkdir /home/bhavith/public_html sudo chown -R bhavith:bhavith /home/bhavith/public_html
```

6. Create Sample PHP Page:

- Run:

echo "<?php echo 'Hello, this site is done by Bhavith P'; ?>" | sudo tee /home/alice/public_html/index.php

```
ec2-user@ip-172-31-41-103:~

</php
Sname = "Bhavith";
echo "<n1>Welcome to My Website</h1>";
echo "Name: Sname";
phpinfo();
?>
```

7. Set Permissions:

- Run:

sudo chmod 711 /home/bhavith sudo chmod -R 755 /home/bhavith/public_html

```
[ec2-user@ip-172-31-41-103 ~]$ sudo chmod 711 /home/bhavith
   sudo chmod -R 755 /home/bhavith/public_html
[ec2-user@ip-172-31-41-103 ~]$ |
```

- 8. Configure Apache VirtualHost:
- Create file: sudo vim /etc/httpd/conf.d/myfirstwebsite.conf
- Add content with your public IP in ServerName

- 9. Disable Default Apache Page:
- Run:

sudo mv /etc/httpd/conf.d/welcome.conf /etc/httpd/conf.d/welcome.conf.bak

[ec2-user@ip-172-31-41-103 ~]\$ sudo mv /etc/httpd/conf.d/welcome.conf /etc/httpd/conf.d/welcome.conf.bak

10. Allow HTTP in Firewall and Security Group:

- Run: sudo firewall-cmd --permanent --add-service=http sudo firewall-cmd --reload

- Allow HTTP in AWS Security Group

```
sudo chmod -R /55 /home/bhavith/public_html
[ec2-user@ip-172-31-41-103 ~]$ sudo vim /etc/httpd/conf.d/myfirstwebsite.conf
[ec2-user@ip-172-31-41-103 ~]$ sudo firewall-cmd --permanent --add-service=http
sudo firewall-cmd --reload
Warning: ALREADY_ENABLED: http
success
success
```

- 11. Apply SELinux Permissions (if enforcing):
- Check with: sestatus

- Fix with: sudo chcon -R -t httpd sys content t /home/bhavith/public html

```
[root@ip-172-31-41-103 ~]# sestatus
                                       enabled
SELinux status:
                                       /sys/fs/selinux
/etc/selinux
SELinuxfs mount:
SELinux root directory:
Loaded policy name:
                                       targeted
                                       enforcing
Current mode:
Mode from config file:
                                       enforcing
Policy MLS status:
                                       enabled
Policy deny_unknown status:
                                       allowed
Memory protection checking: actual (secure)
Max kernel policy version: 33
[root@ip-172-31-41-103 ~]# chcon -R_-t httpd_sys_content_t /home/bhavith/public_html
[root@ip-172-31-41-103 ~]# systemctl restart httpd
```

- 12. Restart Apache:
- Run:
 sudo systemctl restart httpd
- 13. Edit Hosts File on Your Laptop On your Windows laptop, do the following:
- 1. Open Notepad as Administrator.
- 2. Open the file: C:\Windows\System32\drivers\etc\hosts
- 3. Add these lines at the bottom (replace with your EC2 IP): 13.232.21.77 mysamplewebsite.itfs 13.232.21.77 bhavith.itfs

```
hosts - Notepad
# Copyright (c) 1993-2009 Microsoft Corp.
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
# For example:
        102.54.94.97 rhino.acme.com
38.25.63.10 x.acme.com
       102.54.94.97
                                                    # source server
# x client host
# localhost name resolution is handled within DNS itself.
       127.0.0.1 localhost
::1 localhost
# ::1 100a....
15.206.205.196 firstnginx.test
13.232.21.77 mysamplewebsite.itfs
13.232.21.77 mysamplewebs:
13.232.21.77 bhavith.itfs
mvfirstwebsi
                   myfirstwebsite.test www.myfirstwebsite.test
```

4. Save and close the file.

14. Test Website:

- Use: curl http://your-public-ip

- Or open it in a browser

