

## **CICD HOSTING PETSHOP WEBSITE IN JENKINS :**

### **PREQUISITES:**

We need 2 ec2 servers , 1 is for Jenkins & another one is for httpd server.

#### **1) Jenkins Prerequisites:**

**Install git** (yum install git -y)

**Install java** (yum install java-11 -y)

**Install Jenkins Using Docker**

```
#!/bin/bash
```

```
sudo su -
```

```
yum update -y
```

```
yum install docker -y
```

```
systemctl start docker
```

```
systemctl enable docker
```

```
docker run -p 8080:8080 -p 50000:50000 jenkins/jenkins:lts
```

#### **2) HTTPD Server Prerequisites:**

Install httpd server ( yum install httpd -y)

Start httpd server ( service httpd start)

To check the status of httpd (service httpd status)

### **Copy Jenkins Public IP & Access over the internet (54.159.148.99:8080)**

-Go to Jenkins Dashboard

-Manage Jenkins -Plugins-Available Plugins

Install

- Publish over ssh (Plugin)

Go to Manage Jenkins – System

-Publish Over SSH

-ssh servers

-Name = Httpd Server

-Host Name = 172.31.40.143 (Httpd Server Private IP)

-User Name = ec2-user

-Path =/var/www/html/

Click on advance

In key = paste private key pair of httpd server ( It is in local downloads section)  
Click on Test Configuration It shows success message.

Download one free html template from the google  
Create one folder name = Project-Petshop move all petshop files to this folder  
Push to git hub

Login to Httpd server using Mobaxterm

```
sudo su
```

```
cd /var/www/
```

```
chmod 777 hosts
```

```
ls
```

hosts file shows in green colour.

Instances | EC2 | us-east-1

Simtekway-Projects/Project-Pet

Html-Project [Jenkins]

PET SHOP - Pet Shop Website Temp

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running

aws Services Search [Alt+S]

EC2 Dashboard

EC2 Global View

Events

Console-to-Code Preview

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations New

▼ Images

Instances (1/3) Info

Find Instance by attribute or tag (case-sensitive)

Any state

Instance state = running

Clear filters

|                                     | Name                | Instance ID         | Instance state | Instance type | Status check      | Alarm status |
|-------------------------------------|---------------------|---------------------|----------------|---------------|-------------------|--------------|
| <input type="checkbox"/>            | Jenki_Master_Server | i-0493fdd1f38ff9bbe | Running        | t3.large      | 2/2 checks passed | View alarms  |
| <input checked="" type="checkbox"/> | Httpd Server        | i-09be1dc19a8af835b | Running        | t2.micro      | 2/2 checks passed | View alarms  |

Instance: i-09be1dc19a8af835b (Httpd Server)

Details

Status and alarms New

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

Public IPv4 address

Private IPv4 addresses

CloudShell

Feedback

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Cookie preferences

Instances | EC2 | us-east-1

Simtekway-Projects/Project-Pet

Installed plugins - Plugins [Jenkins]

PET SHOP - Pet Shop Website Temp

54.159.148.99:8080/manage/pluginManager/installed

Jenkins

Search (CTRL+K)

admin

log out

Dashboard > Manage Jenkins > Plugins

Plugins

publish over ssh

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

| Name                             | Enabled                             |
|----------------------------------|-------------------------------------|
| Publish Over SSH 1.25            | <input checked="" type="checkbox"/> |
| Send build artifacts over SSH    |                                     |
| Report an issue with this plugin |                                     |

REST API

Jenkins 2.440.1

Instances | EC2 | us-east-1 x Simtekway-Projects/Project-Pet x System [Jenkins] x PET SHOP - Pet Shop Website Temp x + - □ ×

← → ↻ 54.159.148.99:8080/manage/configure ☆ 🔒 👤 📁 ☰

Dashboard > Manage Jenkins > System >

### Publish over SSH

Jenkins SSH Key ?

Passphrase ?

Change Password

Path to key ?

Key ?

Instances | EC2 | us-east-1 x Simtekway-Projects/Project-Pet x System [Jenkins] x PET SHOP - Pet Shop Website Temp x + - □ ×

← → ↻ 54.159.148.99:8080/manage/configure ☆ 🔒 👤 📁 ☰

Dashboard > Manage Jenkins > System >

### SSH Servers

≡ SSH Server ×

Name ?

htpdp server

Hostname ?

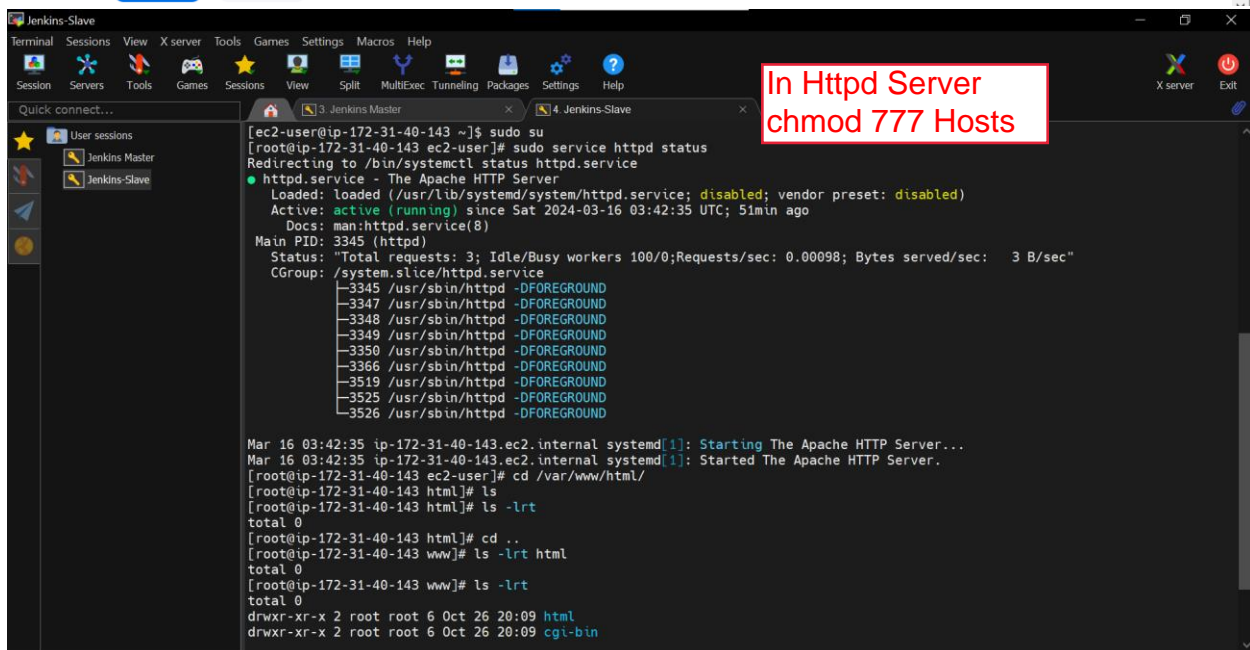
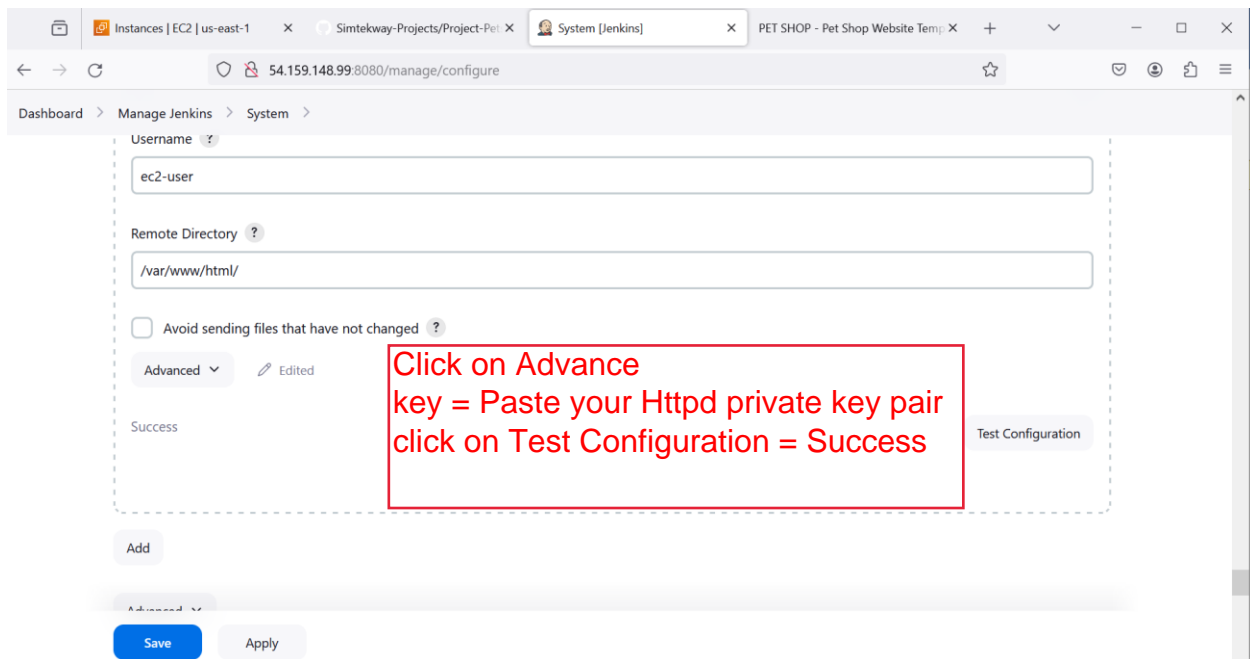
172.31.40.143 HTTPD SERVER PRIVATE IP

Username ?

ec2-user

Remote Directory ?

/var/www/html/



```
Jenkins-Slave
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...
User sessions
Jenkins Master
Jenkins-Slave

Docs: man:httpd.service(8)
Main PID: 3345 (httpd)
Status: "Total requests: 3; Idle/Busy workers 100/0;Requests/sec: 0.00098; Bytes served/sec: 3 B/sec"
CGroup: /system.slice/httpd.service
-3345 /usr/sbin/httpd -DFOREGROUND
-3347 /usr/sbin/httpd -DFOREGROUND
-3348 /usr/sbin/httpd -DFOREGROUND
-3349 /usr/sbin/httpd -DFOREGROUND
-3350 /usr/sbin/httpd -DFOREGROUND
-3366 /usr/sbin/httpd -DFOREGROUND
-3519 /usr/sbin/httpd -DFOREGROUND
-3525 /usr/sbin/httpd -DFOREGROUND
-3526 /usr/sbin/httpd -DFOREGROUND

Mar 16 03:42:35 ip-172-31-40-143.ec2.internal systemd[1]: Starting The Apache HTTP Server...
Mar 16 03:42:35 ip-172-31-40-143.ec2.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-40-143 ec2-user]# cd /var/www/html/
[root@ip-172-31-40-143 html]# ls
total 0
[root@ip-172-31-40-143 html]# cd ..
[root@ip-172-31-40-143 www]# ls -lrt html
total 0
drwxr-xr-x 2 root root 6 Oct 26 20:09 html
drwxr-xr-x 2 root root 6 Oct 26 20:09 cgi-bin
[root@ip-172-31-40-143 www]# chmod 777 html
[root@ip-172-31-40-143 www]# ls -lrt
total 0
drwxrwxrwx 2 root root 6 Oct 26 20:09 html
drwxr-xr-x 2 root root 6 Oct 26 20:09 cgi-bin
[root@ip-172-31-40-143 www]#
```

In Httpd Server  
chmod 777 Hosts

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Instances | EC2 | us-east-1 | shrikanthcr/Simtekway-Project | Html-Project [Jenkins] | PET SHOP - Pet Shop Website Temp | + | - | X

← → ↺ <https://github.com/shrikanthcr/Simtekway-Projects/tree/master> ☆ 📄 🗂 🌐

shrikanthcr / Simtekway-Projects 🔍 Type / to search + 🔍 ⌵ 📄 🗂 🌐

<> Code 🕒 Issues 🔄 Pull requests 🔄 Actions 📁 Projects 📖 Wiki 🛡 Security 📊 Insights ⚙ Settings

🌱 Simtekway-Projects Public 📌 📺 Unwatch 1 🍴 Fork ⭐ Star 0

👤 master had recent pushes 8 minutes ago [Compare & pull request](#)

📁 master 2 Branches 0 Tags 🔍 Go to file + <> Code

This branch is 3 commits ahead of, 4 commits behind main. 🏠 Contribute

🌱 shrikanthcr Update index.html 2d7c808 · 8 minutes ago 🕒 3 Commits

📁 Project-Petshop Update index.html 8 minutes ago

📖 README

About  
Simtekway Projects  
🌐 Activity  
⭐ 0 stars  
👁 1 watching  
🍴 0 forks

Releases  
No releases published  
[Create a new release](#)

Packages  
No packages published

Instances | EC2 | us-east-1 X Simtekway-Projects/Project-Pet X Html-Project Config [Jenkins] X PET SHOP - Pet Shop Website Temp X

54.159.148.99:8080/job/Html-Project/configure

# Jenkins

Search (CTRL+K) admin log out

Dashboard > Html-Project > Configuration

## Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

### General

Enabled

Description

petshop project

Plain text [Preview](#)

☐ Discard old builds ?

☐ GitHub project

[Save](#) [Apply](#)

Instances | EC2 | us-east-1 X Simtekway-Projects/Project-Pet X Html-Project Config [Jenkins] X PET SHOP - Pet Shop Website Temp X

54.159.148.99:8080/job/Html-Project/configure

# Jenkins

Search (CTRL+K) admin log out

Dashboard > Html-Project > Configuration

## Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

☐ None

☒ Git ?

Repositories ?

Repository URL ?

<https://github.com/shrikanthcr/Simtekway-Projects.git>

Credentials ?

- none -

[+ Add](#)

[Advanced](#)

[Save](#) [Apply](#)

Instances | EC2 | us-east-1 x Simtekway-Projects/Project-Pet: x Html-Project Config [Jenkins] x PET SHOP - Pet Shop Website Temp: x

54.159.148.99:8080/job/Html-Project/configure

Dashboard > Html-Project > Configuration

## Configure

- General
- Source Code Management
- Build Triggers**
- Build Environment
- Build Steps
- Post-build Actions

Branches to build ?

Branch Specifier (blank for 'any') ?

\*/master

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Save Apply

Instances | EC2 | us-east-1 x Simtekway-Projects/Project-Pet: x Html-Project Config [Jenkins] x PET SHOP - Pet Shop Website Temp: x

54.159.148.99:8080/job/Html-Project/configure

Dashboard > Html-Project > Configuration

## Configure

- General
- Source Code Management
- Build Triggers**
- Build Environment
- Build Steps
- Post-build Actions

☐ Trigger builds remotely (e.g., from scripts) ?

☐ Build after other projects are built ?

☐ Build periodically ?

☐ GitHub hook trigger for GITScm polling ?

☒ Poll SCM ?

Schedule ?

\*\*\*\*\*

⚠ Do you really mean "every minute" when you say "\*\*\*\*\*"? Perhaps you meant "H\*\*\*\*\*" to poll once per hour  
Would last have run at Saturday, March 16, 2024 at 4:41:02 AM Coordinated Universal Time; would next run at Saturday, March 16, 2024 at 4:41:02 AM Coordinated Universal Time.



Instances | EC2 | us-east-1

Simtekway-Projects/Project-Pet

Html-Project Config [Jenkins]

PET SHOP - Pet Shop Website Temp

54.159.148.99:8080/job/Html-Project/configure

Dashboard > Html-Project > Configuration

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Build Steps

Execute shell ?

Command

See the list of available environment variables

ls  
pwd

Advanced

Instances | EC2 | us-east-1

Simtekway-Projects/Project-Pet

Html-Project Config [Jenkins]

PET SHOP - Pet Shop Website Temp

54.159.148.99:8080/job/Html-Project/configure

Dashboard > Html-Project > Configuration

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Send files or execute commands over SSH ?

SSH Publishers

SSH Server

Name ?

httpd server

Advanced

Transfers

Transfer Set

Source files ?

Project-Petshop/\*\*

SaveApply

Instances | EC2 | us-east-1 x Simtekway-Projects/Project-Pet x Html-Project Config [Jenkins] x PET SHOP - Pet Shop Website Temp x

54.159.148.99:8080/job/Html-Project/configure

Dashboard > Html-Project > Configuration

### Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps**
- Post-build Actions

#### Transfers

Transfer Set

Source files ?  
Project-Petshop/\*\*

Remove prefix ?  
Project-Petshop/

Remote directory ?

Exec command ?  
pwd

Git Folder Name

Save Apply

Instances | EC2 | us-east-1 x Simtekway-Projects/Project-Pet x Html-Project Config [Jenkins] x PET SHOP - Pet Shop Website Temp x

54.159.148.99:8080/job/Html-Project/configure

Dashboard > Html-Project > Configuration

### Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions**

Add Server

Advanced v

Add build step v

#### Post-build Actions

Add post-build action v

Save Apply

REST API Jenkins 2.440.1

Instances | EC2 | us-east-1

shrikanthcr/Simtekway-Project

Html-Project [Jenkins]

PET SHOP - Pet Shop Website Temp

← → ↺ https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running

aws Services Search [Alt+S]

EC2 Dashboard

EC2 Global View

Events

Console-to-Code

Preview

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

▼ Images

Instances (1/3) Info

↻ Connect Instance state Actions Launch Instances

Find Instance by attribute or tag (case-sensitive) Any state

Instance state = running Clear filters

|                                     | Name                | Instance ID         | Instance state | Instance type | Status check      | Alarm status |
|-------------------------------------|---------------------|---------------------|----------------|---------------|-------------------|--------------|
| <input type="checkbox"/>            | Jenki_Master_Server | i-0493fdd1f38ff9bbe | Running        | t3.large      | 2/2 checks passed | View alarms  |
| <input checked="" type="checkbox"/> | Httpd Server        | i-09be1dc19a8af835b | Running        | t2.micro      | 2/2 checks passed | View alarms  |

Instance: i-09be1dc19a8af835b (Httpd Server)

instance i-09be1dc19a8af835b (Httpd Server)

Public IPv4 address 34.229.212.145 [open address](#)

Private IPv4 addresses 172.31.40.143

Instance state Running

Public IPv4 DNS ec2-34-229-212-145.compute-1.amazonaws.com [open address](#)

Private IP DNS name (IPv4 only) ip-172-31-40-143.ec2.internal

IP name: ip-172-31-40-143.ec2.internal

CloudShell Feedback

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← → ↺ 34.229.212.145

OUR OFFICE


123 Street, New York, USA

EMAIL US

info@example.com

CALL US

+012 345 6789

 PET SHOP

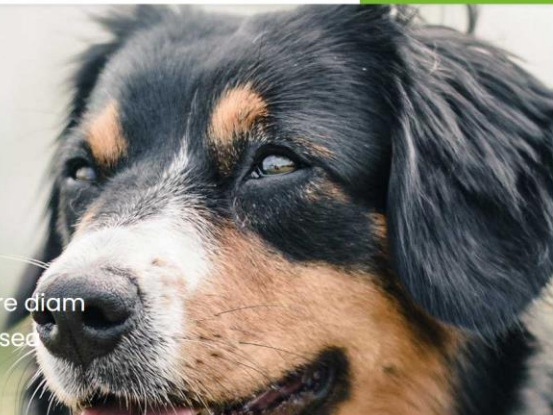
HOME ABOUT SERVICE PRODUCT PAGES

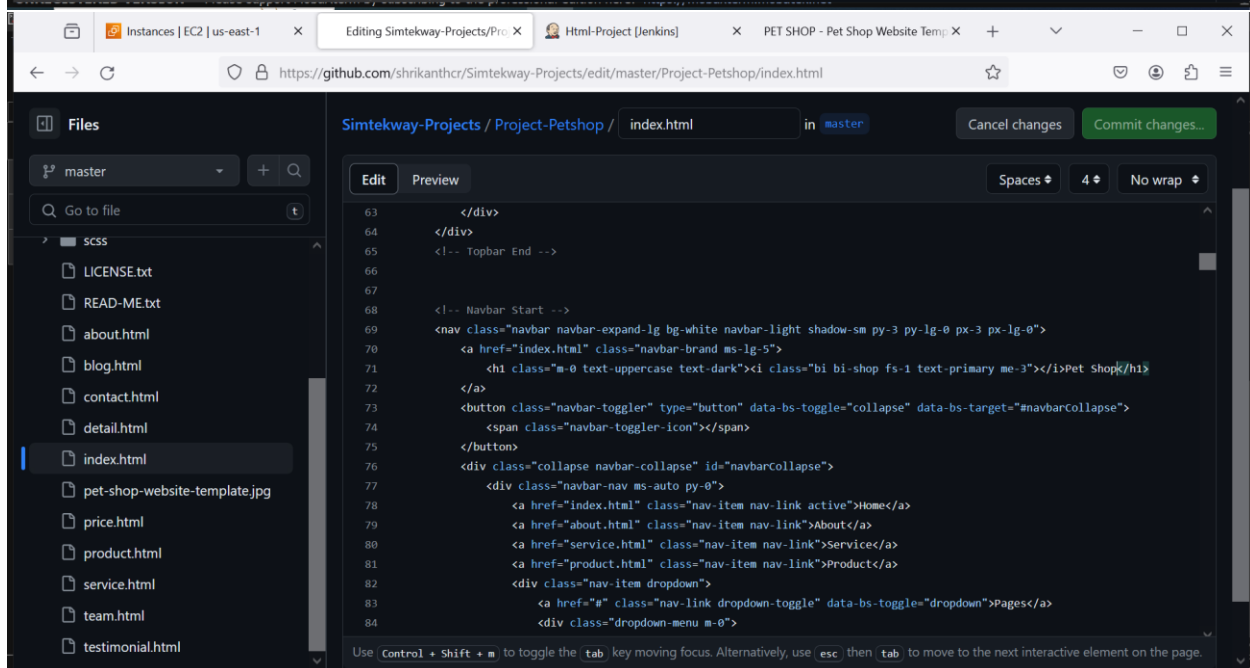
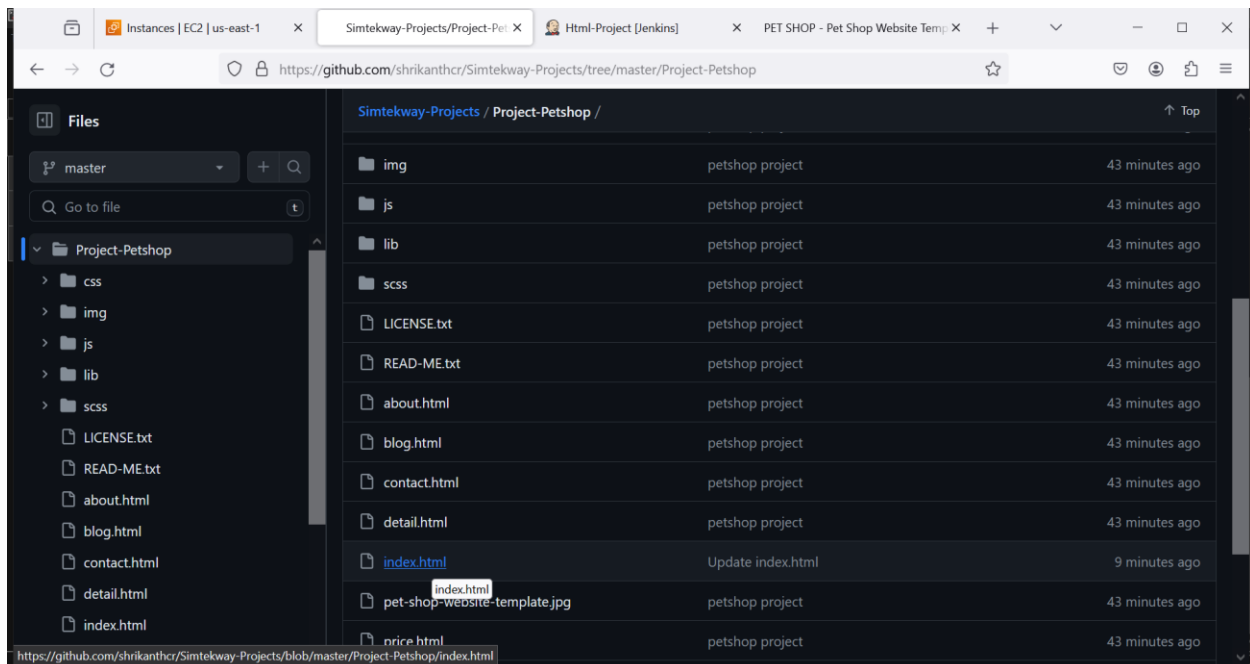
CONTACT →

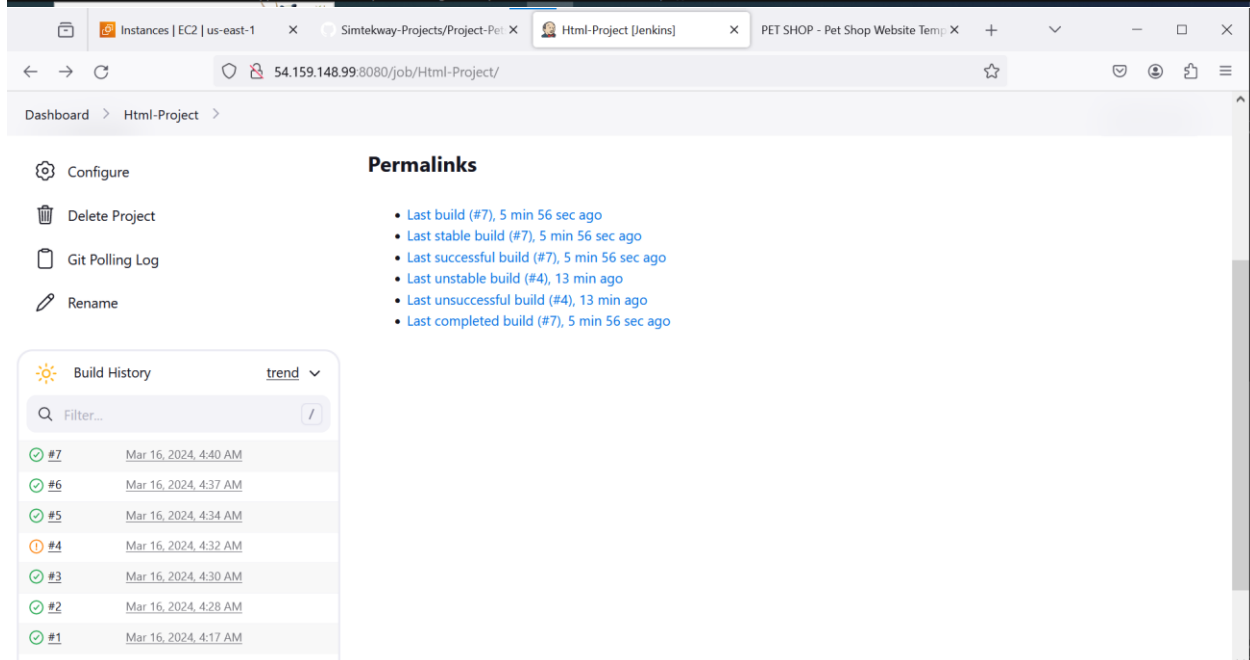
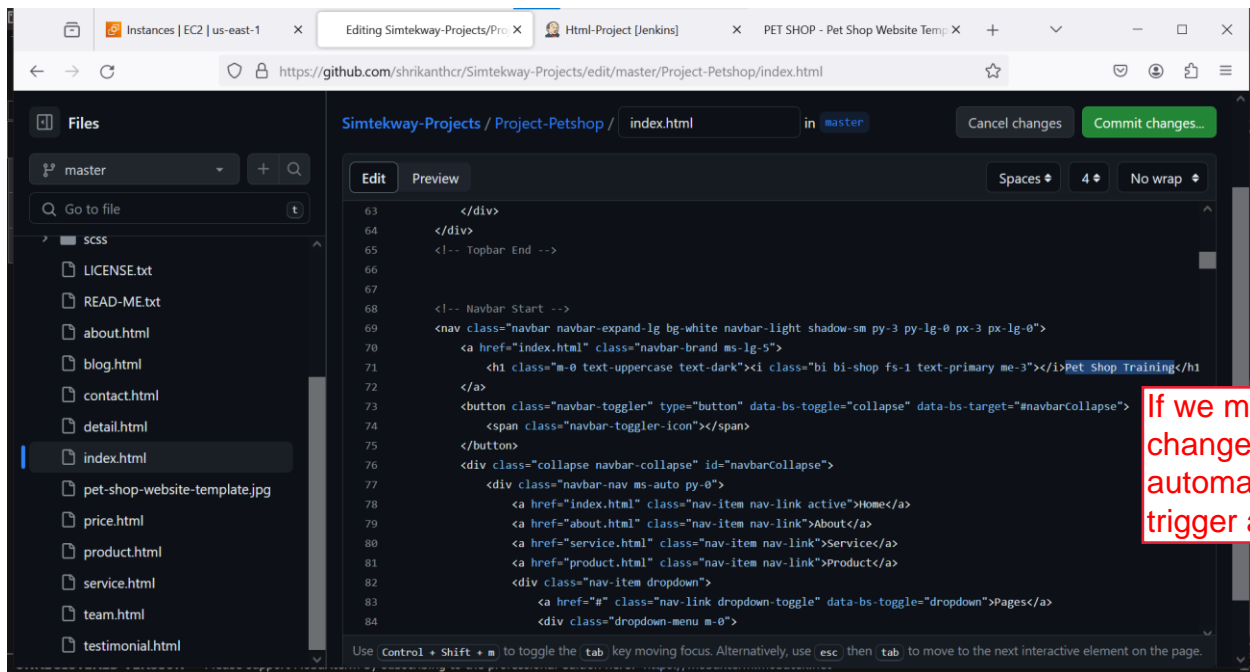
PET SHOP

MAKE YOUR PETS HAPPY

Dolore tempor clita lorem rebum kasd eirmod dolore diam  
eos kasd. Kasd clita ea justo est sed kasd erat clita sed







Instances | EC2 | us-east-1 x Simtekway-Projects/Project-Pet x Html-Project [Jenkins] x PET SHOP - Pet Shop Website Temp x

54.159.148.99:8080/job/Html-Project/

Dashboard > Html-Project >

Git Polling Log

Rename

Build History trend

Filter...

|      |                       |
|------|-----------------------|
| ✓ #8 | Mar 16, 2024, 4:51 AM |
| ✓ #7 | Mar 16, 2024, 4:40 AM |
| ✓ #6 | Mar 16, 2024, 4:37 AM |
| ✓ #5 | Mar 16, 2024, 4:34 AM |
| ⚠ #4 | Mar 16, 2024, 4:32 AM |
| ✓ #3 | Mar 16, 2024, 4:30 AM |
| ✓ #2 | Mar 16, 2024, 4:28 AM |
| ✓ #1 | Mar 16, 2024, 4:17 AM |

Atom feed for all Atom feed for failures

- Last successful build (#7), 5 min 56 sec ago
- Last unstable build (#4), 13 min ago
- Last unsuccessful build (#4), 13 min ago
- Last completed build (#7), 5 min 56 sec ago

8 th Build  
Triggered  
automatically using  
poll scm

Refresh the Page


Instances | EC2 | us-east-1 x Simtekway-Projects/Project-Pet x Html-Project [Jenkins] x PET SHOP - Pet Shop Website Temp x

34.229.212.145

123 Street, New York, USA

EMAIL US  
info@example.com

CALL US  
+012 345 6789

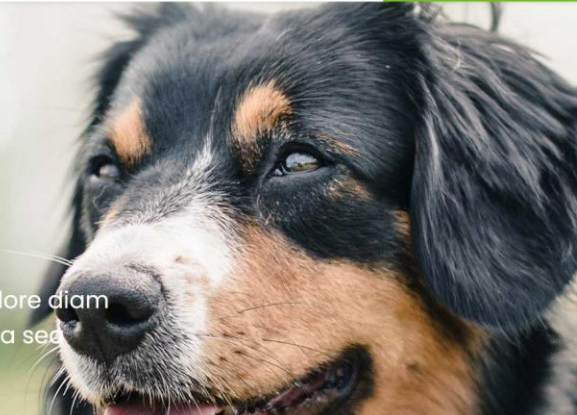
 **PET SHOP**

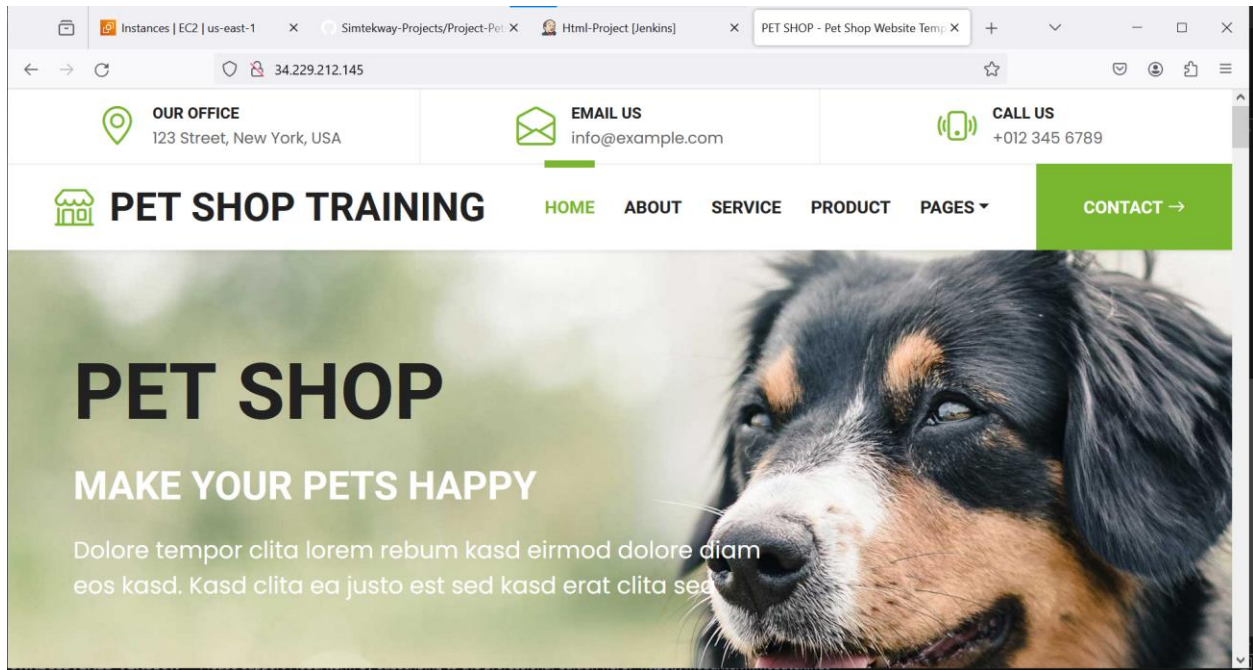
HOME ABOUT SERVICE PRODUCT PAGES CONTACT →

# PET SHOP

## MAKE YOUR PETS HAPPY

Dolore tempor clita lorem rebum kasd eirmod dolore diam  
eos kasd. Kasd clita ea justo est sed kasd erat clita sed





Now we can see  
the output, Pet  
Shop Training