

TASK:

Enable SSI (server side includes) in apache2 Ubuntu:

SSI:

SSI is a feature provided by the Apache web server. SSI allows you to dynamically include or execute content on the server side before serving a web page to the client.

With SSI, we can create reusable components, manage common elements, and add dynamic functionality to the web pages without the need for complex server-side scripting. SSI directives are embedded within HTML comments and are processed by the Apache server when a web page is requested.

STEP 1:

Connect to instance:

The screenshot shows the AWS Management Console interface for connecting to an EC2 instance. The breadcrumb trail at the top reads: EC2 > Instances > i-Oba04ba8dd136a018 > Connect to instance. The main heading is 'Connect to instance' with an 'Info' link. Below the heading, it says 'Connect to your instance i-Oba04ba8dd136a018 (demo) using any of these options'. There are four tabs: 'EC2 Instance Connect' (selected), 'Session Manager', 'SSH client', and 'EC2 serial console'. Under the 'EC2 Instance Connect' tab, the 'Instance ID' is 'i-Oba04ba8dd136a018 (demo)'. The 'Connection Type' section has two options: 'Connect using EC2 Instance Connect' (selected, with a description: 'Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.') and 'Connect using EC2 Instance Connect Endpoint' (unselected, with a description: 'Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.'). The 'Public IP address' is '13.126.129.118'. The 'User name' field is labeled 'User name' with a note: 'Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ubuntu.' The text 'ubuntu' is entered in the field. A note box at the bottom states: 'Note: In most cases, the default user name, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.' At the bottom right, there are 'Cancel' and 'Connect' buttons.

EC2 > Instances > i-Oba04ba8dd136a018 > Connect to instance

### Connect to instance [Info](#)

Connect to your instance i-Oba04ba8dd136a018 (demo) using any of these options

**EC2 Instance Connect** | Session Manager | SSH client | EC2 serial console

Instance ID  
i-Oba04ba8dd136a018 (demo)

Connection Type

☒ **Connect using EC2 Instance Connect**  
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ **Connect using EC2 Instance Connect Endpoint**  
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address  
13.126.129.118

User name  
Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ubuntu.  
ubuntu

**Note:** In most cases, the default user name, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel **Connect**

## STEP 2:

Install apache2 web server using this command and check status

--> `sudo apt install apache2`

--> `sudo service apache2 status`

```
ubuntu@ip-150-0-0-43:/var/www/ssi-demo$ sudo service apache2 status
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-07-18 10:58:38 UTC; 32s ago
     Docs: https://httpd.apache.org/docs/2.4/
  Process: 4205 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 4209 (apache2)
    Tasks: 55 (limit: 1141)
   Memory: 5.0M
      CPU: 28ms
  CGroup: /system.slice/apache2.service
          └─4209 /usr/sbin/apache2 -k start
            └─4210 /usr/sbin/apache2 -k start
              └─4211 /usr/sbin/apache2 -k start
```

## STEP 3:

Enable ssl module

--> `sudo a2enmod include`

```
ubuntu@ip-150-0-0-43:~$ sudo a2enmod include
Considering dependency mime for include:
Module mime already enabled
Enabling module include.
To activate the new configuration, you need to run:
  systemctl restart apache2
```

#### STEP 4:

Create a directory and html file inside of /var/www

--> `sudo nano /var/www/ssi-demo/index.html`

```
ubuntu@ip-150-0-0-43:~$ sudo mkdir /var/www/ssi-demo
ubuntu@ip-150-0-0-43:~$ cd /var/www/ssi-demo/
ubuntu@ip-150-0-0-43:/var/www/ssi-demo$ sudo nano index.html
```

#### STEP 5:

Open the index.html file and add the following code

```
GNU nano 6.2
<!DOCTYPE html>
<html>
<head>
  <title>SSI Demo</title>
</head>
<body>
  <h1>Server Side Includes Demo</h1>
  <!--#echo var="DATE_LOCAL" -->
  <p>This page was last modified on <!--#flastmod file="index.html" --></p>
</body>
</html>
```

I

## STEP 6:

Create a config file in `/etc/apache2/sites-available/ssi.demo.conf` and add the code

--> `sudo nano /etc/apache2/sites-available/ssi.demo.conf`

```
GNU nano 6.2 /etc/apache2/sites-available/ssi-demo.conf
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/ssi-demo

    <Directory /var/www/ssi-demo>
        Options +Includes
        AddType text/html .html
        AddOutputFilter INCLUDES .html
        Require all granted
    </Directory>
</VirtualHost>
```

[ Read 11 lines ]

|                |                     |                    |                 |                   |                       |                 |           |
|----------------|---------------------|--------------------|-----------------|-------------------|-----------------------|-----------------|-----------|
| <b>^G</b> Help | <b>^O</b> Write Out | <b>^W</b> Where Is | <b>^K</b> Cut   | <b>^T</b> Execute | <b>^C</b> Location    | <b>M-U</b> Undo | <b>M-</b> |
| <b>^X</b> Exit | <b>^R</b> Read File | <b>^N</b> Replace  | <b>^U</b> Paste | <b>^J</b> Justify | <b>^/_</b> Go To Line | <b>M-E</b> Redo | <b>M-</b> |

## STEP 7:

Enable the config file of ssi-demo,disable the default site and restart apache2

--> `sudo a2ensite ssi-demo`

--> `sudo a2dissite 000-default.conf`

--> `sudo service apache2 restart`

```
ubuntu@ip-150-0-0-43:/var/www/ssi-demo$ sudo a2ensite ssi-demo.conf
Enabling site ssi-demo.
To activate the new configuration, you need to run:
  systemctl reload apache2
ubuntu@ip-150-0-0-43:/var/www/ssi-demo$ sudo a2dissite 000-default.conf
Site 000-default disabled.
To activate the new configuration, you need to run:
  systemctl reload apache2
ubuntu@ip-150-0-0-43:/var/www/ssi-demo$ sudo service apache2 restart
ubuntu@ip-150-0-0-43:/var/www/ssi-demo$ sudo service apache2 status
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-07-18 10:58:38 UTC; 32s ago
     Docs: https://httpd.apache.org/docs/2.4/
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 Main PID: 4209 (apache2)
    Tasks: 55 (limit: 1141)
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      CPU: 28ms
   CGroup: /system.slice/apache2.service
           └─4209 /usr/sbin/apache2 -k start
             └─4210 /usr/sbin/apache2 -k start
               └─4211 /usr/sbin/apache2 -k start
```

## STEP 8:

Copy the ip address of the instance and paste it in browser, we will get the real time change in time of the server and also the last time the config file in the server was modified



## Server Side Includes Demo

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