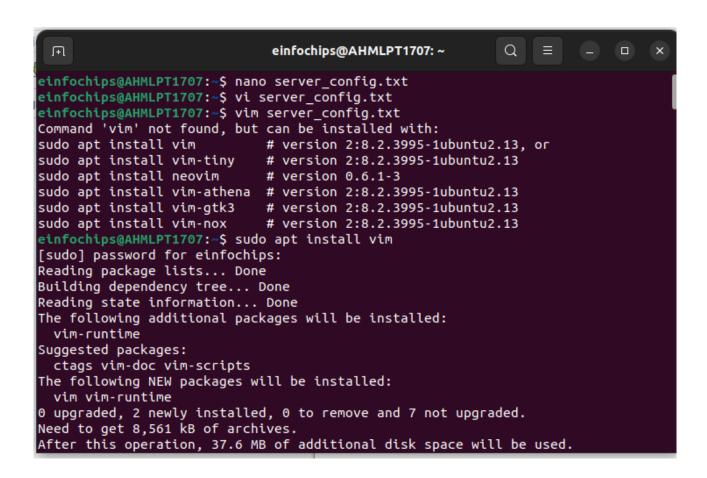
Task 1:Creating and Editing Text Files:documented the configurations and settings for a new server. Used different text editors to create and update these documents.

```
F1
                              einfochips@AHMLPT1707: ~
                                                           Q
                                                                          Adding 'diversion of /usr/share/vim/vim82/doc/tags to /usr/share/vim/vim82/doc/t
ags.vim-tiny by vim-runtime'
Unpacking vim-runtime (2:8.2.3995-1ubuntu2.17) ...
Selecting previously unselected package vim.
Preparing to unpack .../vim 2%3a8.2.3995-1ubuntu2.17 amd64.deb ...
Unpacking vim (2:8.2.3995-1ubuntu2.17) ...
Setting up vim-runtime (2:8.2.3995-1ubuntu2.17) ...
Setting up vim (2:8.2.3995-1ubuntu2.17) ...
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vim (vim) in a
uto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vimdiff (vimdi
ff) in auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/rvim (rvim) in
 auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/rview (rview)
in auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vi (vi) in aut
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/view (view) in
 auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/ex (ex) in aut
Processing triggers for man-db (2.10.2-1) ...
einfochips@AHMLPT1707:~$ vim server_config.txt
```



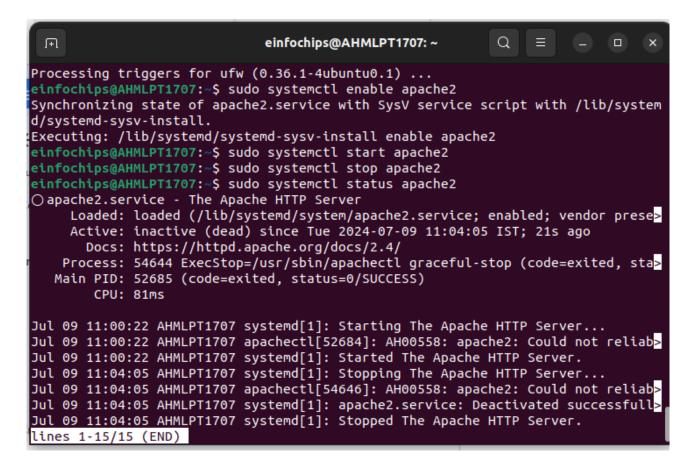
Task 2: User & Group Management: Set up user accounts and groups for a new team joining the project

```
JŦ]
                               einfochips@AHMLPT1707: ~
                                                              Q
                                                                              einfochips@AHMLPT1707:~$ sudo adduser developer
Adding user `developer' ...
Adding new group `developer' (1002) ...
Adding new user `developer' (1001) with group `developer' ...
The home directory `/home/developer' already exists. Not copying from `/etc/ske
ι'.
adduser: Warning: The home directory `/home/developer' does not belong to the us
er you are currently creating.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for developer
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] Y
einfochips@AHMLPT1707:~$ sudo groupadd devteam
groupadd: group 'devteam' already exists
einfochips@AHMLPT1707:~$ sudo usermod -aG devteam developer
einfochips@AHMLPT1707:~$ sudo chown developer:devteam server_config.txt
einfochips@AHMLPT1707:~$ ls -l server config.txt
```

Task 3: File Permission Management: Ensuring that only the appropriate users have access to specific files and directories.

```
einfochips@AHMLPT1707: ~
                                                              Q
                                                                   \equiv
                                                                              Adding new group `developer' (1002) ...
Adding new user `developer' (1001) with group `developer'
The home directory `/home/developer' already exists. Not copying from `/etc/ske
ι'.
adduser: Warning: The home directory `/home/developer' does not belong to the us
er you are currently creating.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for developer
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] Y
einfochips@AHMLPT1707:~$ sudo groupadd devteam
groupadd: group 'devteam' already exists
einfochips@AHMLPT1707:~$ sudo usermod -aG devteam developer
einfochips@AHMLPT1707:~$ sudo chown developer:devteam server_config.txt
einfochips@AHMLPT1707:~$ ls -l server_config.txt
-rw-r--r-- 1 developer devteam 96 Jul  9 10:37 server_config.txt
einfochips@AHMLPT1707:~$
```

Task 4: Controlling Services and Daemons: Managed the web server service to ensure it is running correctly and starts on boot.

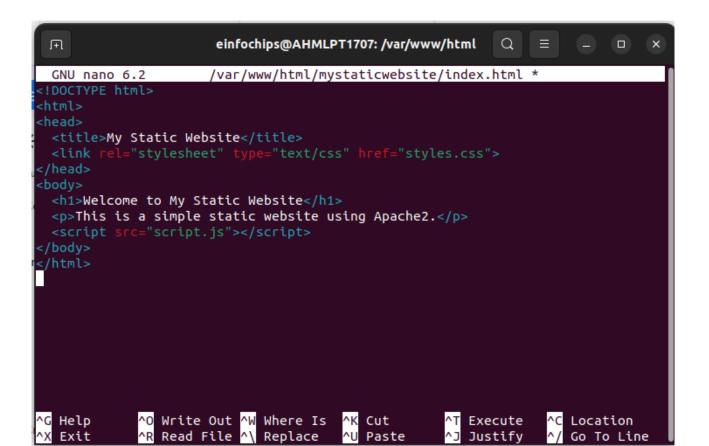


Task 5: Process Handling: Monitored and managed processes to ensure the server is performing optimally

einfochips@AHMLPT1707: ~ Q ≡ − □ ×												
	einfochips@AHMLPT1707: ~						× einfochips@AHMLPT1707: ~ ×					
einfoch+ 61849 0.0 0.0 12672 3456 pts/2 R+ 11:12 0:00 ps aux einfochips@AHMLPT1707:~\$ top												
top - 11:12:47 up 17:18, 2 users, load average: 1.14, 0.88, 1.03 Tasks: 326 total, 1 running, 325 sleeping, 0 stopped, 0 zombie												
%Cpu(s): 1.4 us, 1.2 sy, 0.0 ni, 97.3 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st MiB Mem : 15797.7 total, 7016.2 free, 3297.2 used, 5484.4 buff/cache MiB Swap: 15259.0 total, 15259.0 free, 0.0 used. 10995.2 avail Mem												
								used.				
	USER	PR	ΝI	VIRT	RES			%CPU	%MEM		COMMAND	
	einfoch+		0	556084				5.3	0.3		gnome-t+	
	einfoch+			5923736				5.0	2.0		gnome-s+	
	einfoch+			1136.1g					2.1		outlook+	
	root	-51	0	0	0		S	2.0	0.0		irq/51-+	
	root	20		1401056				1.0	0.3		TaniumC+	
	einfoch+			1131.5g				0.7	1.1		teams-f+	
	root	20	0		13236			0.3	0.1		systemd	
		-51	0	0	0		S	0.3	0.0		irq/139+	
	systemd+			14836		6016		0.3	0.0		systemd+	
	root	20	0		10496			0.3	0.1		thermald	
	root	20		1156452				0.3	0.8		wdavdae+	
	einfoch+		0		11796			0.3	0.1		ibus-da+	
	einfoch+	20	0		7168			0.3	0.0		ibus-en+	
4586	mdatp	20	0	883152	171024	68736	S	0.3	1.1	0:35.52	wdavdae+	

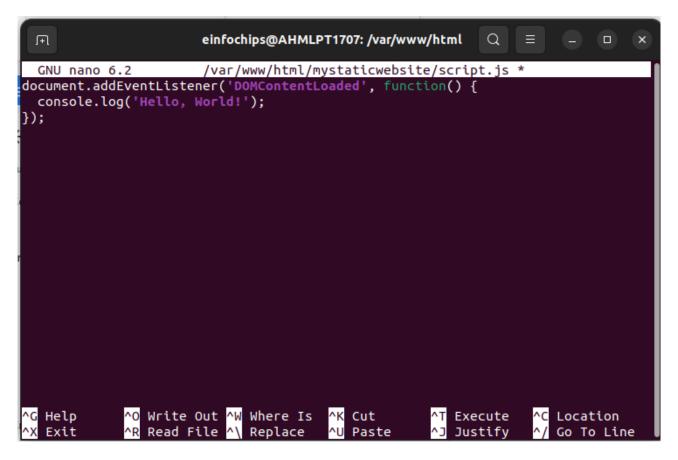
Part 2: Creating a website

1. Creating HTML file and using nano to edit the file



```
J∓1
                       einfochips@AHMLPT1707: /var/www/html
                                                            Q
 GNU nano 6.2
                      /var/www/html/mystaticwebsite/styles.css *
 font-family: Arial, sans-serif;
 background-color: #f0f0f0;
 text-align: center;
 margin: 0;
 padding: 20px;
 color: #333;
             ^O Write Out ^W Where Is
'G Help
                                       ^K Cut
                                                       Execute
                                                                  ^C Location
               Read File ^\
```

3. Created JS file and using nano to edit the file



4. Adding and image

```
einfochips@AHMLPT1707: /var/www/html
                                                                  Q
                                                                       \equiv
einfochips@AHMLPT1707:~$ ipconfig
Command 'ipconfig' not found, did you mean:
 command 'iwconfig' from deb wireless-tools (30~pre9-13.1ubuntu4) command 'ifconfig' from deb net-tools (1.60+git20181103.0eebece-1ubuntu5) command 'iconfig' from deb ipmiutil (3.1.8-1)
Try: sudo apt install <deb name>
einfochips@AHMLPT1707:~$ cd /var/www/^C
einfochips@AHMLPT1707:~$ cd /var/www/html
einfochips@AHMLPT1707:/var/www/html$ sudo mkdir mystaticwebsite
einfochips@AHMLPT1707:/var/www/html$ sudo chown -R $USER:$USER /var/www/html/mys
taticwebsite
einfochips@AHMLPT1707:/var/www/html$ nano /var/www/html/mystaticwebsite/index.ht
ml
einfochips@AHMLPT1707:/var/www/html$ nano /var/www/html/mystaticwebsite/styles.c
einfochips@AHMLPT1707:/var/www/html$ nano /var/www/html/mystaticwebsite/script.j
einfochips@AHMLPT1707:/var/www/html$ cp /home/einfochips/Downloads/test.jpg ^[[2
00~/var/www/html/mystaticwebsite/logo.png
cp: cannot create regular file ''$'\033''[200~/var/www/html/mystaticwebsite/logo
.png': No such file or directory
einfochips@AHMLPT1707:/var/www/html$ cp /home/einfochips/Downloads/test.jpg /var
/www/html/mystaticwebsite/test.jpg
einfochips@AHMLPT1707:/var/www/ht
```

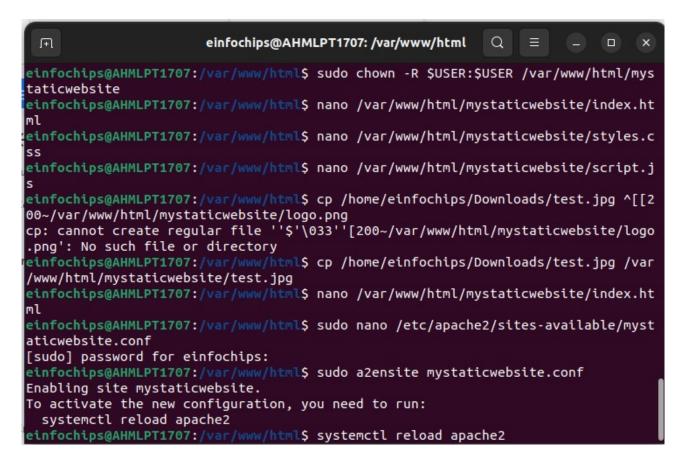
Part 3: Configuring Apache2 to Serve the Website 1: Created and edited a Virtual Host File

ſŦ einfochips@AHMLPT1707: /var/www/html Q GNU nano 6.2 /etc/apache2/sites-available/mystaticwebsite.conf * <VirtualHost *:80> ServerAdmin webmaster@localhost DocumentRoot /var/www/html/mystaticwebsite ErrorLog \${APACHE LOG DIR}/error.log

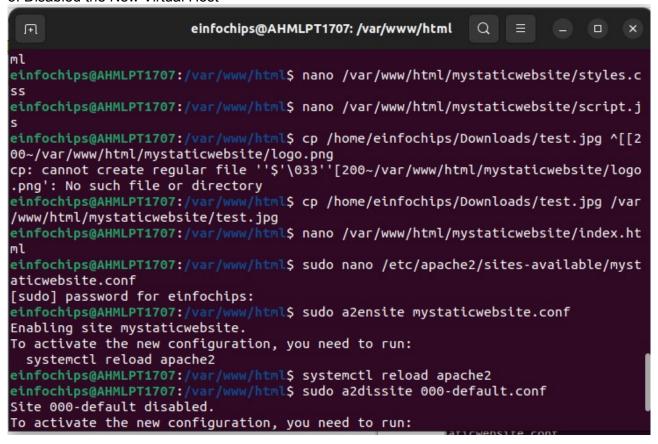
CustomLog \${APACHE LOG DIR}/access.log combined </VirtualHost> ^G Help ^O Write Out ^W Where Is ^K Cut Execute ^C Location Read File ^\ Exit Replace Paste Justify Go To Line

×

2. Enabled the New Virtual Host

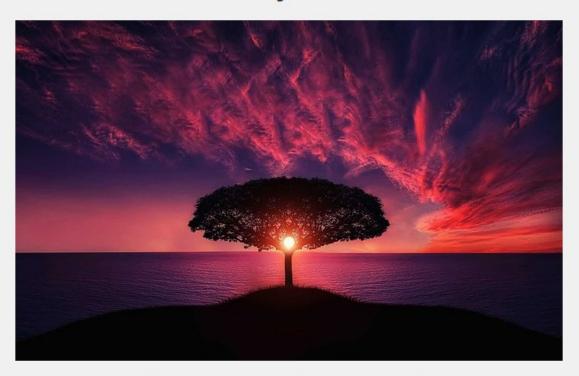


3. Disabled the New Virtual Host



4. Tested the configuration

Welcome to My Static Website



This is a simple static website using Apache2.