

# **WEB HOSTING**

**W G S HARSHANA**

**HDSE 182F-004**

**SYSTEM SECURITY**

**NIBM**

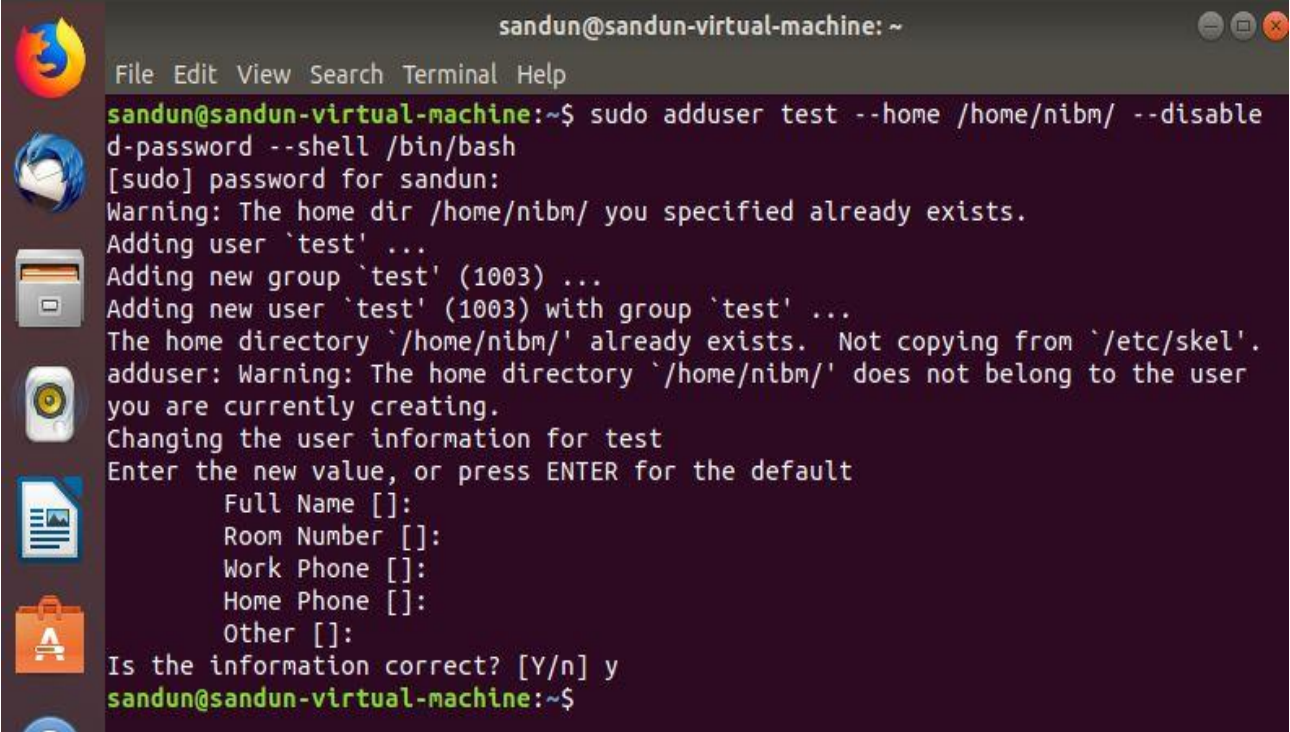
## Introduction

Web hosting is a service that allows organizations and individuals to post a website or web page onto the Internet. A web host, or web hosting service provider, is a business that provides the technologies and services needed for the website or webpage to be viewed in the Internet. Websites are hosted, or stored, on special computers called servers. When Internet users want to view your website, all they need to do is type your website address or domain into their browser. Their computer will then connect to your server and your webpages will be delivered to them through the browser.

Most hosting companies require that you own your domain in order to host with them. If you do not have a domain, the hosting companies will help you purchase one.

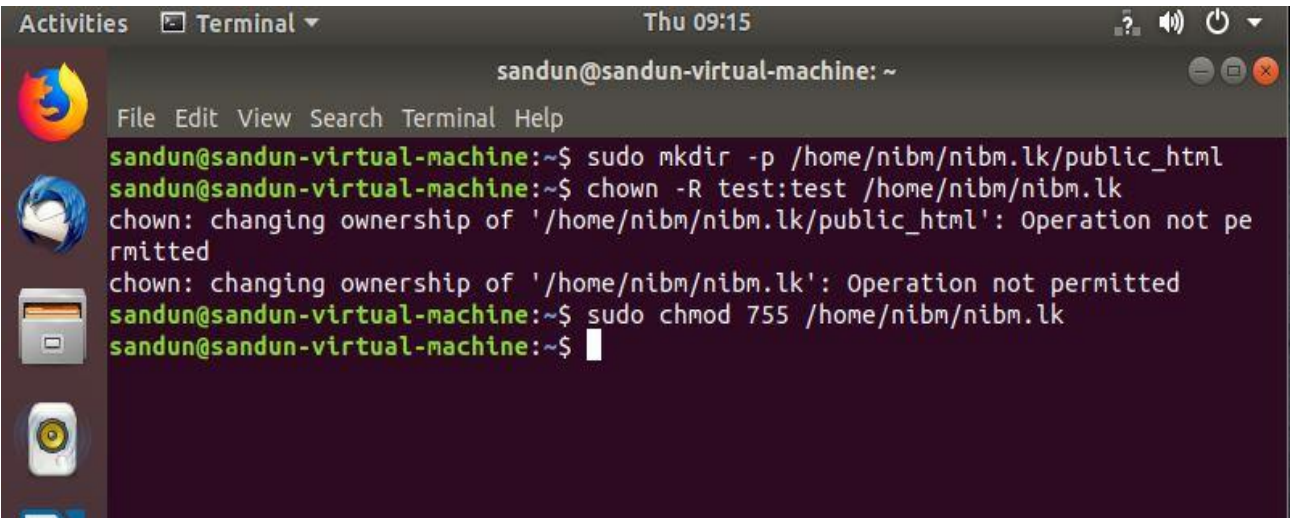
## Steps in Web Hosting

### 1. Create User with disable Password



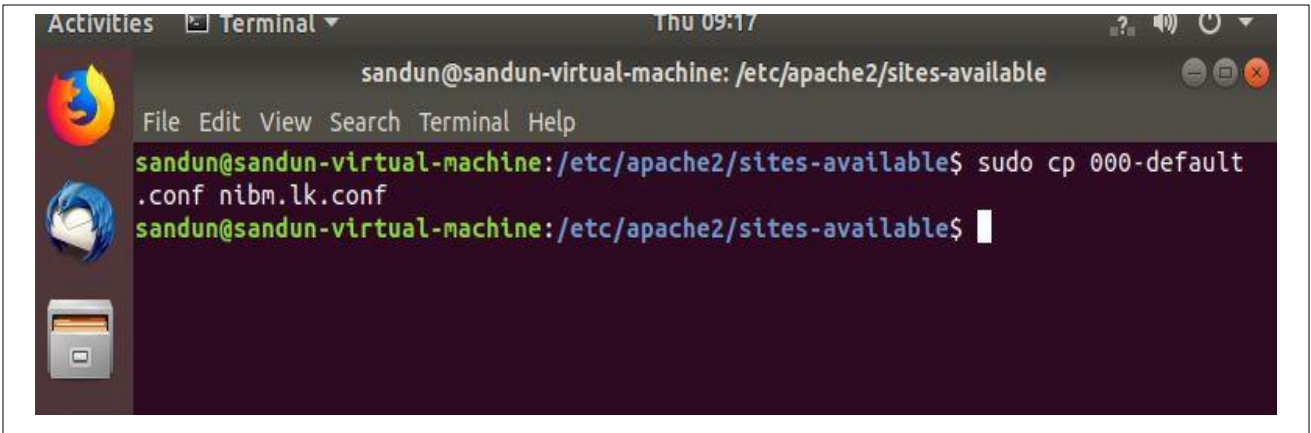
```
sandun@sandun-virtual-machine: ~  
File Edit View Search Terminal Help  
sandun@sandun-virtual-machine:~$ sudo adduser test --home /home/nibm/ --disab  
d-password --shell /bin/bash  
[sudo] password for sandun:  
Warning: The home dir /home/nibm/ you specified already exists.  
Adding user `test' ...  
Adding new group `test' (1003) ...  
Adding new user `test' (1003) with group `test' ...  
The home directory `/home/nibm/' already exists. Not copying from `/etc/skel'.  
adduser: Warning: The home directory `/home/nibm/' does not belong to the user  
you are currently creating.  
Changing the user information for test  
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  
sandun@sandun-virtual-machine:~$
```

### 2. Changing Owner Permission



```
Activities Terminal Thu 09:15  
sandun@sandun-virtual-machine: ~  
File Edit View Search Terminal Help  
sandun@sandun-virtual-machine:~$ sudo mkdir -p /home/nibm/nibm.lk/public_html  
sandun@sandun-virtual-machine:~$ chown -R test:test /home/nibm/nibm.lk  
chown: changing ownership of '/home/nibm/nibm.lk/public_html': Operation not pe  
rmitted  
chown: changing ownership of '/home/nibm/nibm.lk': Operation not permitted  
sandun@sandun-virtual-machine:~$ sudo chmod 755 /home/nibm/nibm.lk  
sandun@sandun-virtual-machine:~$
```

### 3. Creating Copy of Default



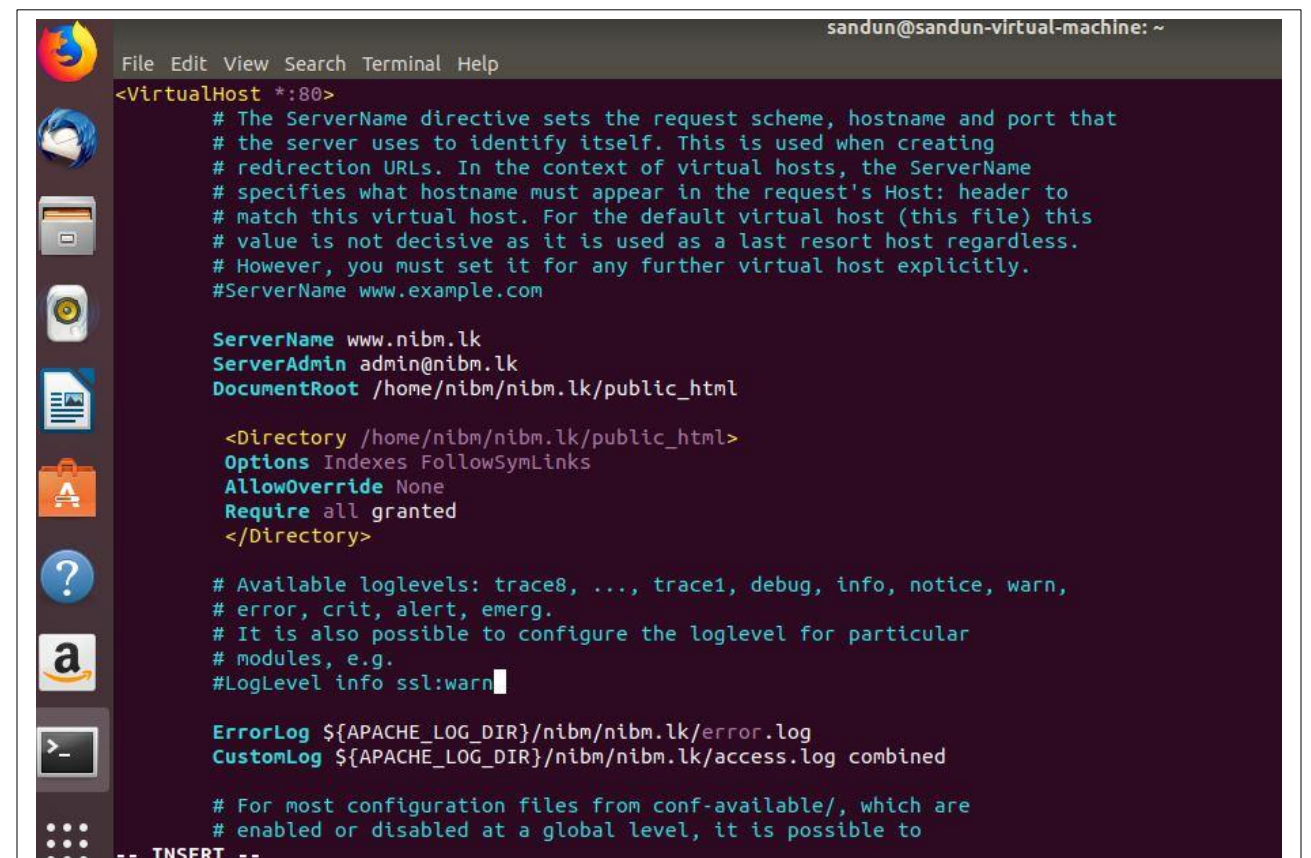
```
Activities Terminal Thu 09:17
sandun@sandun-virtual-machine: /etc/apache2/sites-available
File Edit View Search Terminal Help
sandun@sandun-virtual-machine:/etc/apache2/sites-available$ sudo cp 000-default
.conf nibm.lk.conf
sandun@sandun-virtual-machine:/etc/apache2/sites-available$
```

### 4. Changing Command



```
sandun@sandun-virtual-machine: ~
File Edit View Search Terminal Help
sandun@sandun-virtual-machine:~$ sudo vim /etc/apache2/sites-available/nibm.lk.conf
[sudo] password for sandun:
```

### 5. Changes Server Name, Server Admin , Document Route and Add Directory



```
sandun@sandun-virtual-machine: ~
File Edit View Search Terminal Help
<VirtualHost *:80>
# The ServerName directive sets the request scheme, hostname and port that
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName www.example.com

ServerName www.nibm.lk
ServerAdmin admin@nibm.lk
DocumentRoot /home/nibm/nibm.lk/public_html

<Directory /home/nibm/nibm.lk/public_html>
Options Indexes FollowSymLinks
AllowOverride None
Require all granted
</Directory>

# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
#LogLevel info ssl:warn

ErrorLog ${APACHE_LOG_DIR}/nibm/nibm.lk/error.log
CustomLog ${APACHE_LOG_DIR}/nibm/nibm.lk/access.log combined

# For most configuration files from conf-available/, which are
# enabled or disabled at a global level, it is possible to
-- INSERT --
```

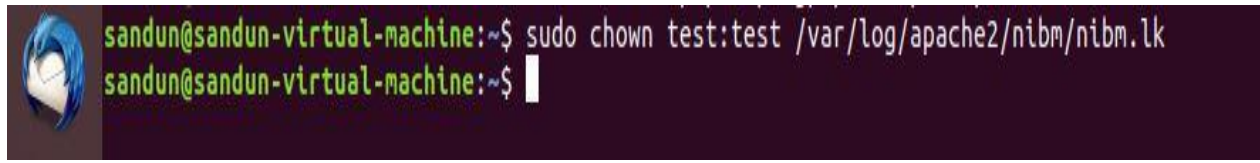
## 6. Creating Directory in Log Files



A terminal window titled 'sandun@sandun-virtual-machine: ~'. The menu bar shows 'File Edit View Search Terminal Help'. The user enters the command 'sudo mkdir -p /var/log/apache2/nibm/nibm.lk' and presses enter. The prompt changes to 'sandun@sandun-virtual-machine:~\$'.

```
sandun@sandun-virtual-machine: ~  
File Edit View Search Terminal Help  
sandun@sandun-virtual-machine:~$ sudo mkdir -p /var/log/apache2/nibm/nibm.lk  
sandun@sandun-virtual-machine:~$
```

## 7. Changing the Permission of Log File



A terminal window titled 'sandun@sandun-virtual-machine: ~'. The user enters the command 'sudo chown test:test /var/log/apache2/nibm/nibm.lk' and presses enter. The prompt changes to 'sandun@sandun-virtual-machine:~\$'.

```
sandun@sandun-virtual-machine:~$ sudo chown test:test /var/log/apache2/nibm/nibm.lk  
sandun@sandun-virtual-machine:~$
```

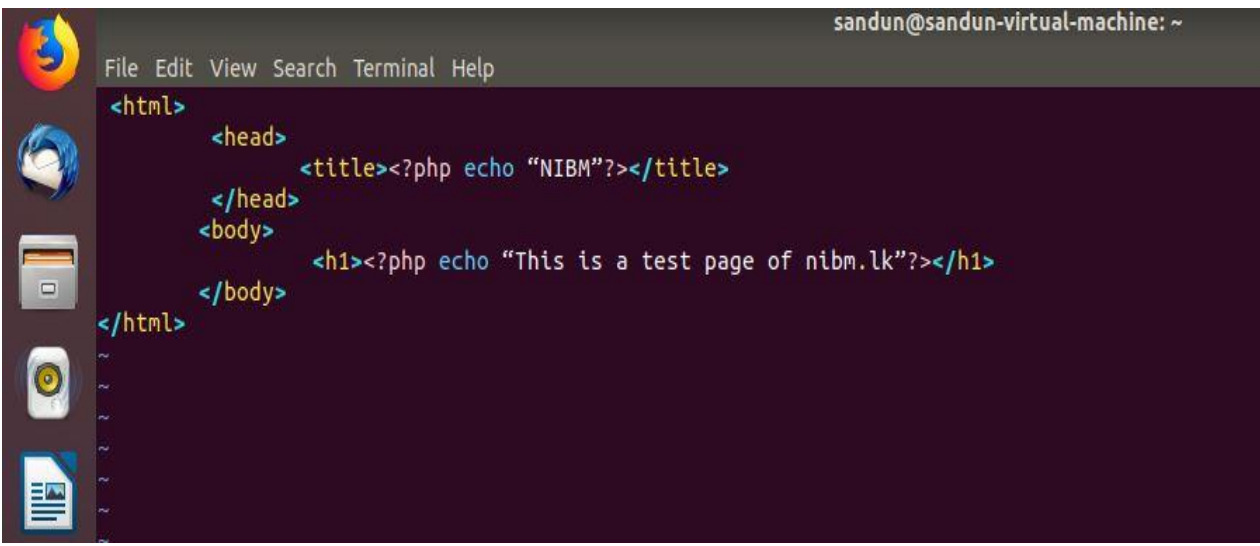
## 8. Making Web Site Index Page



A terminal window titled 'sandun@sandun-virtual-machine: ~'. The user enters the command 'vim /home/nibm/nibm.lk/public\_html/index.php' and presses enter. The prompt changes to 'sandun@sandun-virtual-machine:~\$'.

```
sandun@sandun-virtual-machine:~$ vim /home/nibm/nibm.lk/public_html/index.php  
sandun@sandun-virtual-machine:~$
```

## 9. Index Web Page

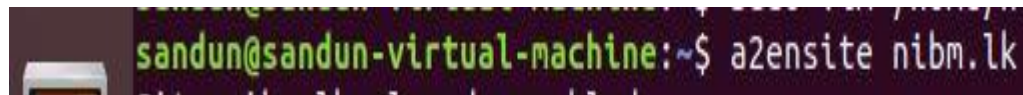


A terminal window titled 'sandun@sandun-virtual-machine: ~'. The menu bar shows 'File Edit View Search Terminal Help'. The user is editing a file in vim, and the content shown is HTML code for an index page. The code includes a title 'NIBM' and a body with a heading 'This is a test page of nibm.lk'.

```
sandun@sandun-virtual-machine: ~  
File Edit View Search Terminal Help  
<html>  
  <head>  
    <title><?php echo "NIBM"?></title>  
  </head>  
  <body>  
    <h1><?php echo "This is a test page of nibm.lk"?></h1>  
  </body>  
</html>
```

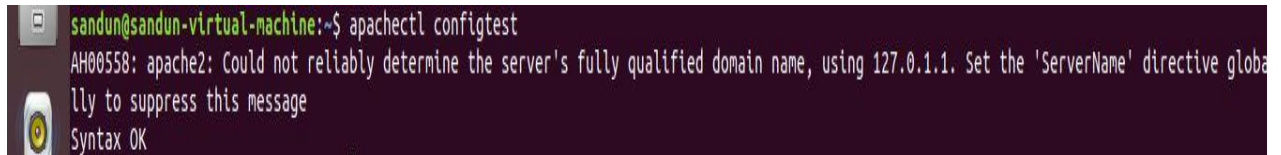


## 10. Enable the site



```
sandun@sandun-virtual-machine:~$ a2ensite nibm.lk
```

## 11. Check Configuration



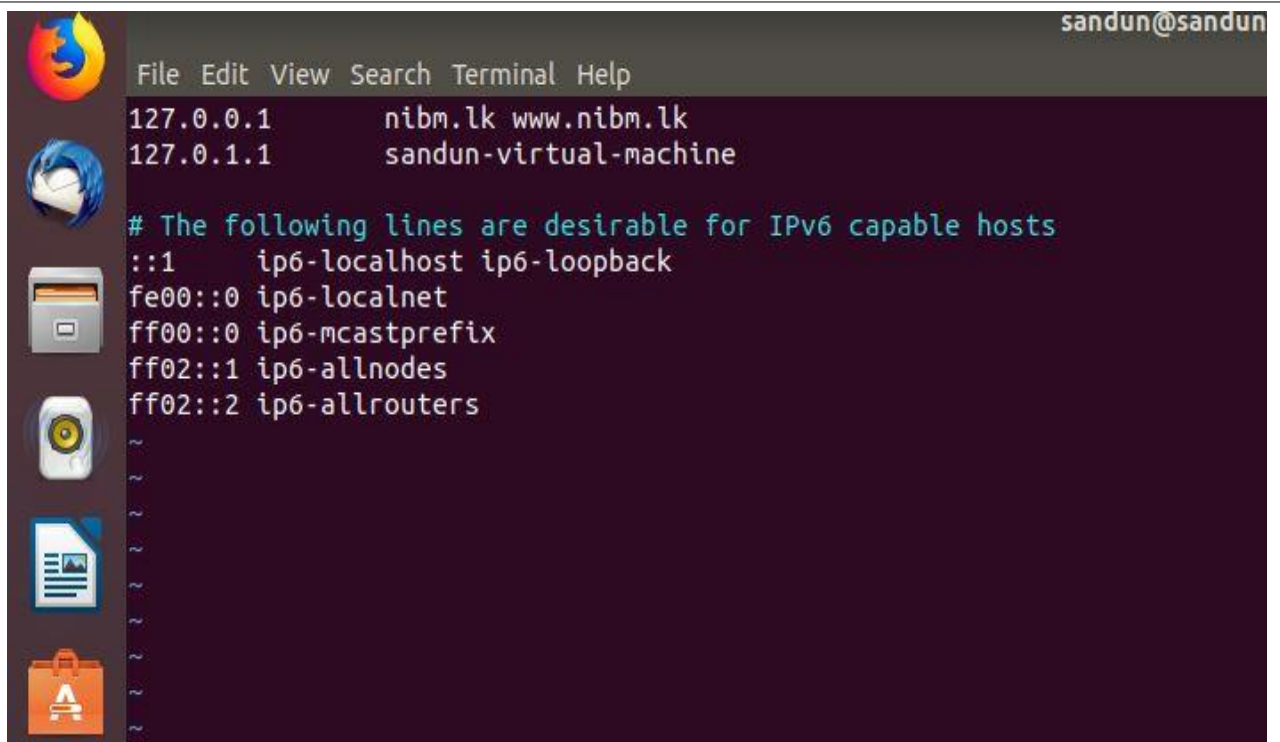
```
sandun@sandun-virtual-machine:~$ apachectl configtest
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress this message
Syntax OK
```

## 12. Adding IP to Host File



```
sandun@sandun-virtual-machine:~$ sudo vim /etc/hosts
```

## 13. IP Mapping



```
sandun@sandun
File Edit View Search Terminal Help
127.0.0.1      nibm.lk www.nibm.lk
127.0.1.1      sandun-virtual-machine

# The following lines are desirable for IPv6 capable hosts
::1          ip6-localhost ip6-loopback
fe00::0      ip6-localnet
ff00::0      ip6-mcastprefix
ff02::1      ip6-allnodes
ff02::2      ip6-allrouters
~
~
~
~
~
~
~
```

## 14. Hosted Web Site

