



```
joe@www:~$ echo "How to serve a website"
```

```
How to serve a website
```

```
joe@www:~$ echo "first we need to install the necessary service"
```

```
first we need to install the necessary service
```

```
joe@www:~$ sudo apt update && sudo apt install apache2 -y
```



```
joe@www:~$ cd /etc/apache2/
```

```
joe@www:/etc/apache2$ ls
```

```
apache2.conf      conf-enabled      magic              mods-enabled      sites-available  
conf-available   envvars           mods-available    ports.conf        sites-enabled
```

```
joe@www:/etc/apache2$ echo "I now have this directory"
```

```
I now have this directory
```

```
joe@www:/etc/apache2$
```



```
joe@www:/etc/apache2$ cd sites-available/
```

```
joe@www:/etc/apache2/sites-available$ ls
```

```
000-default.conf  default-ssl.conf
```

```
joe@www:/etc/apache2/sites-available$ sudo vi squishy.thegummibear.com.conf
```



```
joe@www:/etc/apache2/sites-available$ cd ..
```

```
joe@www:/etc/apache2$ ls sites-enabled/  
000-default.conf
```

```
joe@www:/etc/apache2$ echo "need to enable our new site"  
need to enable our new site
```

```
joe@www:/etc/apache2$ sudo a2ensite squishy.thegummibear.com.conf  
Enabling site squishy.thegummibear.com.
```

```
To activate the new configuration, you need to run:  
systemctl reload apache2
```

```
joe@www:/etc/apache2$ ls sites-enabled/  
000-default.conf  squishy.thegummibear.com.conf
```

```
joe@www:/etc/apache2$ echo "Now reload apache so it is aware of the changes"  
Now reload apache so it is aware of the changes
```

```
joe@www:/etc/apache2$ sudo service apache2 reload
```

```
joe@www:/etc/apache2$ █
```



```
joe@www:/etc/apache2$ echo "We aren't done yet, we need to create a corresponding entry for squishy on our nameserver so that it will resolve."
```

```
We aren't done yet, we need to create a corresponding entry for squishy on our nameserver so that it will resolve.
```

```
joe@www:/etc/apache2$
```



```
joe@ns1:/etc/bind$ echo "make sure you are logged into your dns master for this part"  
make sure you are logged into your dns master for this part  
joe@ns1:/etc/bind$ sudo vi db.thegummibear.com
```

```

; db file for thegummibear.com
; this is just a comment and is not important
;
;
$TTL      86400
@         IN      SOA      ns1.thegummibear.com. root.ns1.thegummibear.com. (
                                4          ; Serial
                                604800    ; Refresh
                                86400     ; Retry
                                2419200   ; Expire
                                86400 )   ; Negative Cache TTL
;

```

```

@         IN      NS       ns1.thegummibear.com.
@         IN      NS       ns2.thegummibear.com.

```

```

ns1      IN      A         144.38.199.36
ns2      IN      A         144.38.199.37
www      IN      A         144.38.199.38
db       IN      A         144.38.199.39
fs       IN      A         144.38.199.35

```

```

;You could add a new A record for squishy, or a CNAME
squishy  IN      CNAME     www

```

```

;YOU CANNOT HAVE AN A RECORD AND A CNAME OF THE SAME NAME

```



```
joe@ns1:/etc/bind$ sudo service bind9 restart
```

```
joe@ns1:/etc/bind$ ping squishy.thegummibear.com
```

```
PING www.thegummibear.com (144.38.199.38) 56(84) bytes of data.
```

```
64 bytes from 38.phony32-199.it3100.cs.utahtech.edu (144.38.199.38): icmp_seq=1 ttl=64 time=1.43 ms
```

```
^C
```

```
--- www.thegummibear.com ping statistics ---
```

```
1 packets transmitted, 1 received, 0% packet loss, time 0ms
```

```
rtt min/avg/max/mdev = 1.428/1.428/1.428/0.000 ms
```

```
joe@ns1:/etc/bind$ echo "You could do a dig test if you want, but since it resolved with the ping command, dns appears to be working"
```

```
You could do a dig test if you want, but since it resolved with the ping command, dns appears to be working
```

```
joe@ns1:/etc/bind$
```



404 Not Found



squishy.thegummibear.com



utahtech news cit-proxmox myproxmox security guitar gmail Mail - Joe Francom - O...

Not Found

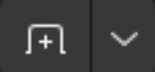
The requested URL was not found on this server.

Apache/2.4.52 (Ubuntu) Server at squishy.thegummibear.com Port 80

```
joe@www:/etc/apache2$ echo "It is resolving... but we don't have any content yet"
It is resolving... but we don't have any content yet
joe@www:/etc/apache2$ cat sites-enabled/squishy.thegummibear.com.conf | grep Docu
  DocumentRoot /var/www/html/squishy.thegummibear.com
joe@www:/etc/apache2$ echo "Remember that line? THAT signifies where apache should lo
ok for web pages when asked"
Remember that line? THAT signifies where apache should look for web pages when asked
joe@www:/etc/apache2$ echo "We haven't created it yet, so let's do so. By default, ap
ache will look for an index.html page in that DocumentRoot"
We haven't created it yet, so let's do so. By default, apache will look for an index.
html page in that DocumentRoot
joe@www:/etc/apache2$ sudo mkdir /var/www/html/squishy.thegummibear.com
```



```
joe@www: /etc/apache2$ sudo vi /var/www/html/squishy.thegummibear.com/index.html  
joe@www: /etc/apache2$ sudo vi /var/www/html/squishy.thegummibear.com/index.html
```



```
<html>  
  <h1> This is my squishy page </h1>  
  <p> This isn't a web design class so I am done with this page </p>  
</html>
```





This is my squishy page

This isn't a web design class so I am done with this page



```
joe@www:~$ echo "Yay, things appear to be working."
```

```
Yay, things appear to be working.
```

```
joe@www:~$ echo "you follow that same process for any number of virtual hosts that you are creating"
```

```
you follow that same process for any number of virtual hosts that you are creating
```

```
joe@www:~$ █
```