μ	: Apache Ubuntu Linux	
h h	μ μ & μ	

## apache

# debian linux

- Configuration : /etc/apache2
- Document root: /var/www/

Α

SSL certificates: /etc/apache2/ssl

μ

• Log files: /var/log/apache2

# μ Virtual Host



• μ 1: μ

#### Virtual host Document Root

µ 2: µ
 Virtual host

#### configuration

- µ 3: site Virtual host
- µ 4: Reload apache

μ

.htaccess

μ

### Access control µ

- µ 1:
   .htaccess
- μ
   μ
   .htaccess
- μ 3: μ
   login/password
- µ 4: login/password
- µ 5: Reload apache





# Virtual host: µ 1

home directory μ μ
 μ μ
 site μ μ μ

μ

public\_html.

mkdir public\_html
mkdir -p public\_html/cnms1.com/{public,private,logs,cgibin,backup}

 µ µ site: nano public\_html/cnms1.com/public/index.html

# μ Virtual host: μ 1 (index.html)



<html> <head> <title>cnms1.com</title> </head> <body> <h1> Hello from first domain of Cnms Lab</h1> </body> </html>

## μ Virtual host: μ 2 (apache2.conf)



• configuration

Apache2 (apache2.conf):

sudo nano /etc/apache2/apache2.conf

NameVirtualHost \*:80

IfModule mod\_ssl.c> NameVirtualHost \*:443

# μ Virtual host: μ 2 (default site)



configuration

default site:

sudo nano /etc/apache2/sites-available/default

<VirtualHost \*:80> ServerAdmin webmaster@localhost

DocumentRoot /var/www/



μ

sudo nano /etc/apache2/sites-available/cnms1.com

# μ Virtual host: μ 2 (configuration cnms1.com)

<VirtualHost \*:80> # Admin email, Server Name (domain name) and any aliases ServerAdmin webmaster@cnms1.com ServerName cnms1.com ServerAlias www.cnms1.com # Index file and Document Root (where the public files are located) DirectoryIndex index.html DocumentRoot /home/demo/public\_html/cnms1.com/public <Directory /> **Options FollowSymLinks** AllowOverride None </Directory> # Custom log file locations LogLevel warn ErrorLog /home/demo/public\_html/cnms1/logs/error.log CustomLog /home/demo/public\_html/cnms1/logs/access.log combined </VirtualHost>



## configuration

•	VirtualHost: µ	IP address virtual host	virtual h	ost		
•	ServerName: ServerAdmin:	host name e-mail	port	virtu	ual virt	host ual host
•	DocumentRoot: document root virtual host		file s	yste	m	
•	Directory: AllowOverride: .htaccess	directive				directives µ
•	ErrorLog: LogLevel warn: CustomLog	footor		μ	μ	log file
•	server Signature:	)				μ



• µ 3: µ site sudo a2ensite cnms1.com

μ site: sudo a2dissite cnms1.com

• µ 4: µ reload apache sudo /etc/init.d/apache2 reload

#### μ

µ µ apache server: sudo nano /etc/apache2/apache2.conf

ServerName "cnms.com"

 hosts sudo nano /etc/hosts

127.0.0.1 localhost cnms1.com



## Access control µ : µ 1

#### .htaccess



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•	AllowC configuration file ہ « µ	verride J »	.htaco	µ cess	-
•	µ apache	μ	μ	virtual host.	

# Access control μ : μ 2

#### .htaccess



µ .htaccess
 cd /home/demo/public\_html/cnms1.com/public
 touch .htaccess
 sudo nano .htaccess

#### • .htaccess

AuthType Basic AuthName "Password Required to enter this area" AuthUserFile /home/demo/public\_html/cnms1.com/password/testuser.file Require user test



#### htaccess

- AuthType: μ
- AuthName: μ
- AuthUserFile:

password

• Require user: µ



## Access control µ : µ 3

- µ
   password:
   mkdir password
   cd password
- µ touch test-user.file

μ



.htaccess

#### test-user.file:

# Access control $\mu$ .htaccess : $\mu$ 4 5

- µ 4: µ password test µ µµ htpasswd: htpasswd test-user.file test
- µ 5: µ reload apache: sudo /etc/init.d/apache2 reload

### Access control $\boldsymbol{\mu}$

#### .htaccess

(2)	Conquer your Desktop! - Konqueror	J_23
Location Edit View	<u>B</u> ookmarks <u>T</u> ools <u>S</u> ettings <u>H</u> elp	
00000	🐼 🖻 domain1.com 👻 🗐 💽 Google Search	- 0
🛃 📄 Conquer your D	Authorization Dialog 2 💷 💉	Ăo
Konqueror is yc St	Site:       Password Required to enter this area at domain1.com	
H K	<u>Osername</u> . <u>Password</u> : <u>Keep password</u>	
Ap domain1.com contacted.	Dications talled programs Waiting for reply	





#### • µ

μ

- web server .htaccess
- web server document root

μ

μ



.htaccess

.htaccess

#### μ

configuration