

## Advanced RISC Machines



# Introduction

01

Internet of things







#### IOT

Smart devices can open your eyes to a wealth of new and actionable operational data. Boost your ability to make decisions quickly—right on your factory floor. Check Products. View Events. Browse Case Studies. Highlights: Customer Care Available, Case Studies Available.

The Internet of things (IOT) is the network of everyday objects — physical things embedded with electronics, software, sensors, and connectivity enabling data exchange.

Basically, a little networked computer is attached to a thing, allowing information exchange to and from that thing.



#### IOT

Be it light bulbs, toasters, refrigerators, flower pots, watches, fans, planes, trains, automobiles, or anything else around you, a little networked computer can be combined with it to accept input (especially object control) or to gather and generate informational output (typically object status or other sensory data).

This means computers will be permeating everything around us — ubiquitous embedded computing devices, uniquely identifiable, interconnected across the Internet.

Because of low-cost, networkable microcontroller modules, the Internet of things is really starting to take off.



# Connect to a 12 server

Internet of things



#### Web Host

In the previous lecture we have learned how to make a simple local web page using Html and PHP.

Now we need to upload our webpage to a server to allow us to control our IOT project Over the world.

we can buy our server but in our course we will use a free server.

The Free Web Hosting Area.com is a free hosting web site allow us to get a hostname for our local webpage to upload it into a server .

"https://www.freewebhostingarea.com/"

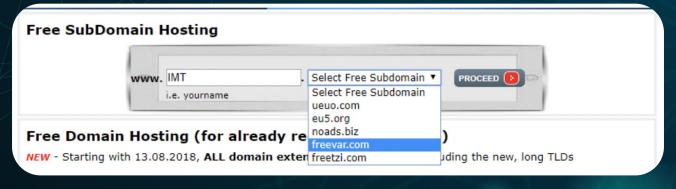




1- got to "https://www.freewebhostingarea.com/" and then got to Free Subdomain Hosting And choose your hostname of your local webpage.

Free SubDomain H	losting		
www.	i.e. vourname	. Select Free Subdomain ▼	PROCEED 3
	i.e. yourname	, 5000000000000000000000000000000000000	

2- Write your hostname and the select a free subdomain.





3- Click to proceed





#### 4- Then enter your email and password for your new hosting

>> Account Information					
E-mail:	IMT@gmail.com				
You need a valid email address	to confirm your account.				
Password:	••••••				
Re-type password:	•••••				
Password must have minimum Do not use special characters o	6 characters including letters and numbers. r spaces.				
✓ I have read the <u>Service Ac</u>	reement and agree to its terms.				



5- Now your new free hosting have been created and this information you will need while uploading your local webpage into a server.

#### Your Personal FTP Information

FTP Server/Host: imt.freevar.com
FTP Login/Username: imt.freevar.com

FTP PassWord: 123456789

6- Go to <a href="http://imt.freevar.com/ftp/">http://imt.freevar.com/ftp/</a> and login with these information.

#### Your Personal FTP Information

FTP Server/Host: imt.freevar.com FTP Login/Username: imt.freevar.com

FTP PassWord: 123456789

To upload your files, you may use free ftp programs like Filezilla, Cyberduck or WinSCP.

Or you may try our Web based FTP client, located a http://imt.freevar.com/ftp/.

Once logged in, you will be able to create a new dir, new file, to upload a zip archive and hav files, to select files and download them as .zip, to copy, move, delete, rename, chmod (chang your account, ability to see and edit dot files like .htaccess. With a normal ftp program you we list of features see http://imt.freevar.com/ftp/help.html.

FTP server

imt.freevar.com

Username

imt.freevar.com

Password

\*\*\*\*\*\*\*\*

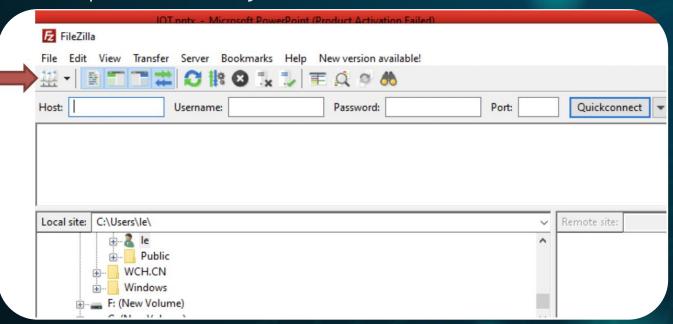
Login



#### Connect with server

7- Now your free server has been created with name <a href="www.imt.freevar.com">www.imt.freevar.com</a> now we need to connect our local webpage to the server to make this step we need to download and install a FileZilla.

8- Click Here to Open the site manager





### Connect with server

#### 9- Add New Site

	Password:		Port:	Quickconr	nect		
Site Manager							×
Select entry:				General Adv	vanced Transfer S	Settings Charse	t
My Sites  yrab3			Protocol:	FTP - File Transfe	r Protocol	~	
				Host:			Port:
				Encryption:	Use explicit FTP of	over TLS if availab	ole v
				Logon Type:	Normal		~
				User:			
				Password:			
				Background	color: None	~	
				Comments:			
	New site	New folder					^
Ne	w Bookmark	Rename					
	Delete	Duplicate					~
					Connect	ОК	Cancel



### Connect with server

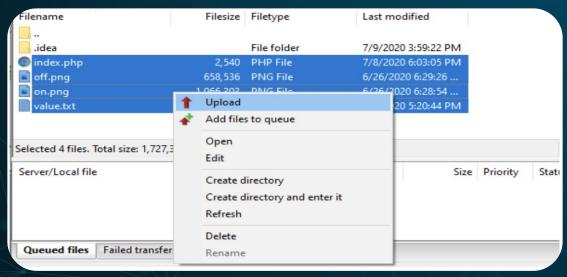
10- Name Your New Site and enter your information you got it from Free Web Hosting • and then press connect.

Select entry:	General Advanced Transfer Settings Charset
☐ My Sites  IMT	Protocol: FTP - File Transfer Protocol V
yrab3	Host: imt.freevar.com Port:
	Encryption: Use explicit FTP over TLS if available
	Logon Type: Normal V
	User: imt.freevar.com
	Password:
	Background color: None V
New site New folder	^
New Bookmark Rename	
Delete Duplicate	
	Connect OK Cancel



## Files Upload

11- After Connection Go to your local webpage files into your computer and then select them all and click right into the mouse and then choose upload.



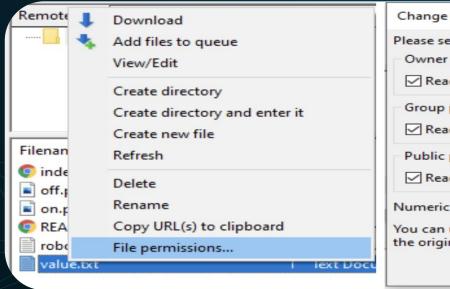
12- be sure that all transfer of your files is done.

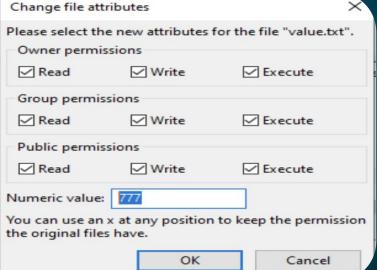
Queued files Failed transfers Successful transfers (4)



#### Files Permissions

13- Go to value.txt in Remote Site and click right on it and choose file permission then • enter 777.

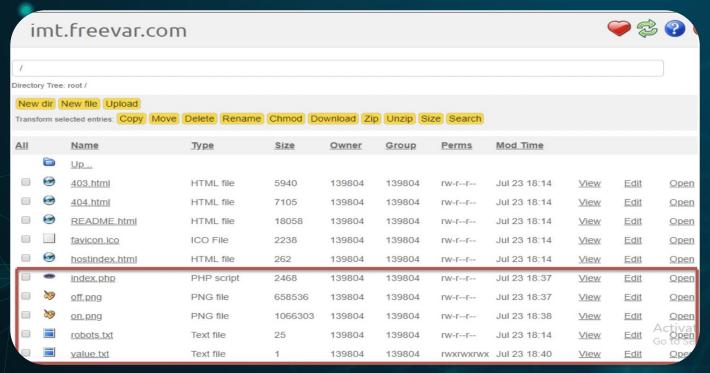






#### **Connection Check**

14- Go to your site <a href="http://imt.freevar.com/ftp/">http://imt.freevar.com/ftp/</a> and be sure that your local webpage files have been uploaded into your server





## Try your Web Application

15- Now search about your webpage into Google http://imt.freevar.com and you will find it.



#### 16- Finally

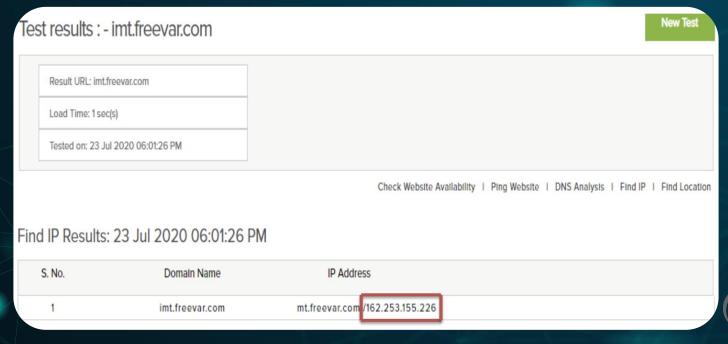






#### **IP Address**

17- The last thing is to get the IP address of you website. Go to <a href="https://www.site24x7.com/find-ip-address-of-web-site.html">https://www.site24x7.com/find-ip-address-of-web-site.html</a> and then enter you hostname of your website "imt.freevar.com".







# STM32 IS AMESOME

#### **Session LAb**

Create your own IOT Application

Time To Code





Do you have any questions?

www.imtschool.com www.facebook.com/imaketechnologyschool/

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