

Ubuntu Greece: Εισαγωγή για servers

Ubuntu server

Γιατί;

- Μαθαίνουμε κάτι νέο
- Εμβάθυνση σε αυτά που γνωρίζουμε
- Χρησιμότητα
- Τώρα συμφέρει...

Παραδοσιακά

- Παλιός υπολογιστής
- Θόρυβος
- Επανεγκατάσταση
- Ταχύτητα
- Δικτύωση
- Ιδιωτικότητα

Cloud server

- **Ταχύτητα**
 - Εγκατάσταση / Επανεγκατάσταση
 - Λειτουργία
 - Δίκτυο
- **Χαμηλό κόστος**

Κόστος

DigitalOcean [DO] (\$5/μήνα ή \$0,007/ώρα)

ScaleWay* (€2.99/μήνα ή €0,006/ώρα)

DO referral: <https://goo.gl/aa5pp3> (ή DO10)

Παίρνουμε έξτρα \$10!

**Δηλαδή, πληρώνοντας το ελάχιστο \$5,
λαμβάνουμε συνολικά \$15 credit σε DO.**

Capital controls ☹️➡️★!👤👉👈

1. Εγκατάσταση Pockee (Android/iPhone)

- Κλικ στο referral μέσα από το κινητό, κερδίζεις **3€**
- <http://goo.gl/AsuLvF>

2. Μετά χρήση του Pockee

- π.χ. 4+4 πακέτα μακαρόνια Misko από Market In (πηγή: Insomnia)
- Επιστροφή: 1€ (τετράδα)+1€ (άλλη τετράδα)=**2€**

Χρήματα

- Ρύθμιση του Pockee για κατάθεση στο Paypal μας

Scaleway στιγμήότυπα

Create a server

this is an estimation
€ 2.99 /month
or € 0.006 /hour [\(more info\)](#)

Price:	Monthly	Hourly
IP	€0.99	€0.002
Server	€1	€0.002
Storage	€1	€0.002

Scaleway στιγμήότυπα

Choose an image

Distributions

ImageHub

My images

Snapshots



Search Distributions



Ubuntu Wily (15.10 latest)

SELECT



Ubuntu Vivid (15.04 latest)

SELECT



Ubuntu Trusty (14.04 LTS)



Ubuntu Precise (12.04)

SELECT



Archlinux

SELECT



Alpine Linux 3.2

SELECT



Gentoo

SELECT



openSUSE 13.2

SELECT

Scaleway στιγμήότυπα

Choose an image

Distributions

ImageHub

My images

Snapshots

Q Search ImageHub



Torrents 1.2.0

SELECT



Wordpress 4.3.1

SELECT



Docker 1.9.0

SELECT



OpenVPN

SELECT

LEM

LEMP
Nginx+PHP

SELEC



Discourse 1.3.5

SELECT



Minecraft (BETA)

SELECT

node

Node.js

SELECT



Java 8

SELECT

KE

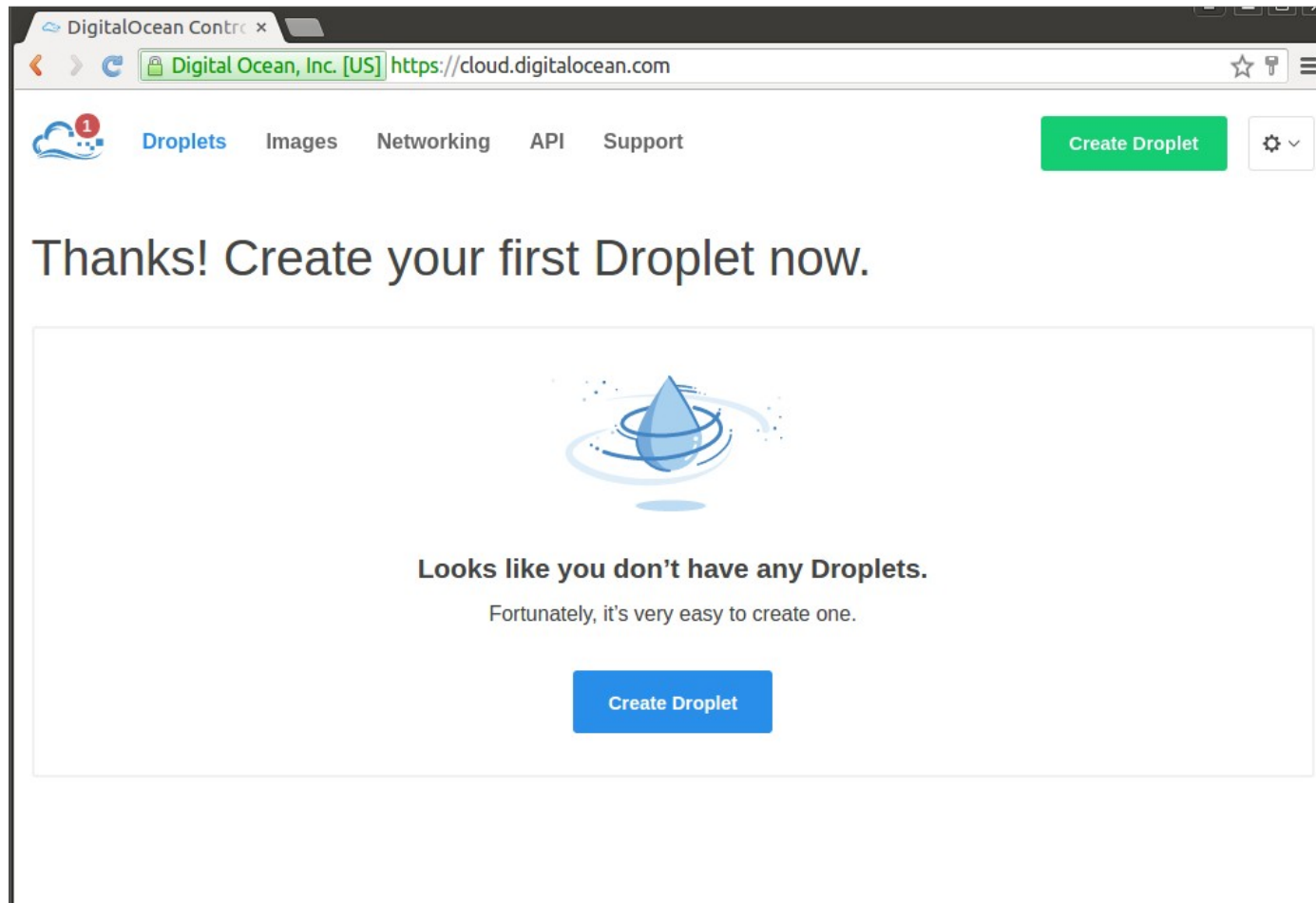
kanboar

SELEC

Scaleway στιγμήότυπα

```
root@scw-~  
Welcome on Ubuntu Trusty (14.04 LTS) (GNU/Linux 3.2.34-30 armv7l - Marvell)  
  
System information as of: Mon Nov 16 12:59:30 UTC 2015  
  
System load:      0.74           Int IP Address: 10.1.18.38  
Memory usage:    2.8%          Pub IP Address: 212.47.254.203  
Usage on /:      2%            Swap usage:      0.0%  
Local Users:     0             Processes:      66  
Image build:     2015-09-14     System uptime:  0 min  
Disk nbd0:       l_ssd 50G  
  
Documentation:   https://scaleway.com/docs  
Community:      https://community.scaleway.com  
Image source:    https://github.com/scaleway/image-ubuntu  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
root@scw-~#
```

DigitalOcean στιγμιότυπα



DigitalOcean στιγμαióτυπα

DigitalOcean Control Panel

Digital Ocean, Inc. [US] <https://cloud.digitalocean.com/droplets/new>

Droplets Images Networking API Support

Create Droplet

Droplet Hostname

mytest

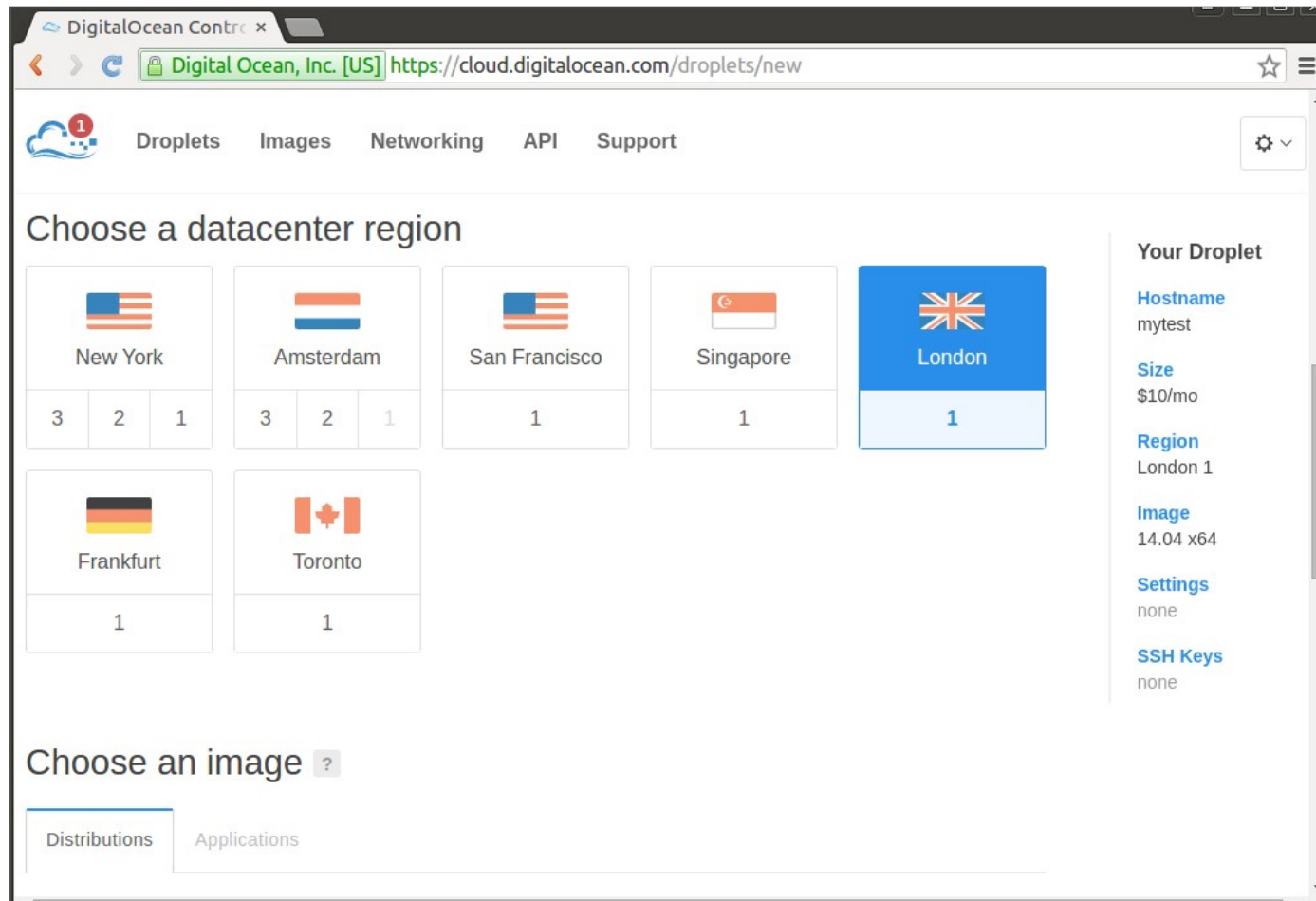
Choose a size

Size	Price	Hourly Price	Memory	CPU	Disk	Transfer
\$5/mo	\$0.007/hour	512 MB / 1 CPU	20 GB SSD Disk	1000 GB Transfer		
\$10/mo	\$0.015/hour	1 GB / 1 CPU	30 GB SSD Disk	2 TB Transfer		
\$20/mo	\$0.030/hour	2 GB / 2 CPUs	40 GB SSD Disk	3 TB Transfer		
\$40/mo	\$0.060/hour	4 GB / 2 CPUs	60 GB SSD Disk	4 TB Transfer		
\$80/mo	\$0.119/hour	8 GB / 4 CPUs	80 GB SSD Disk	5 TB Transfer		

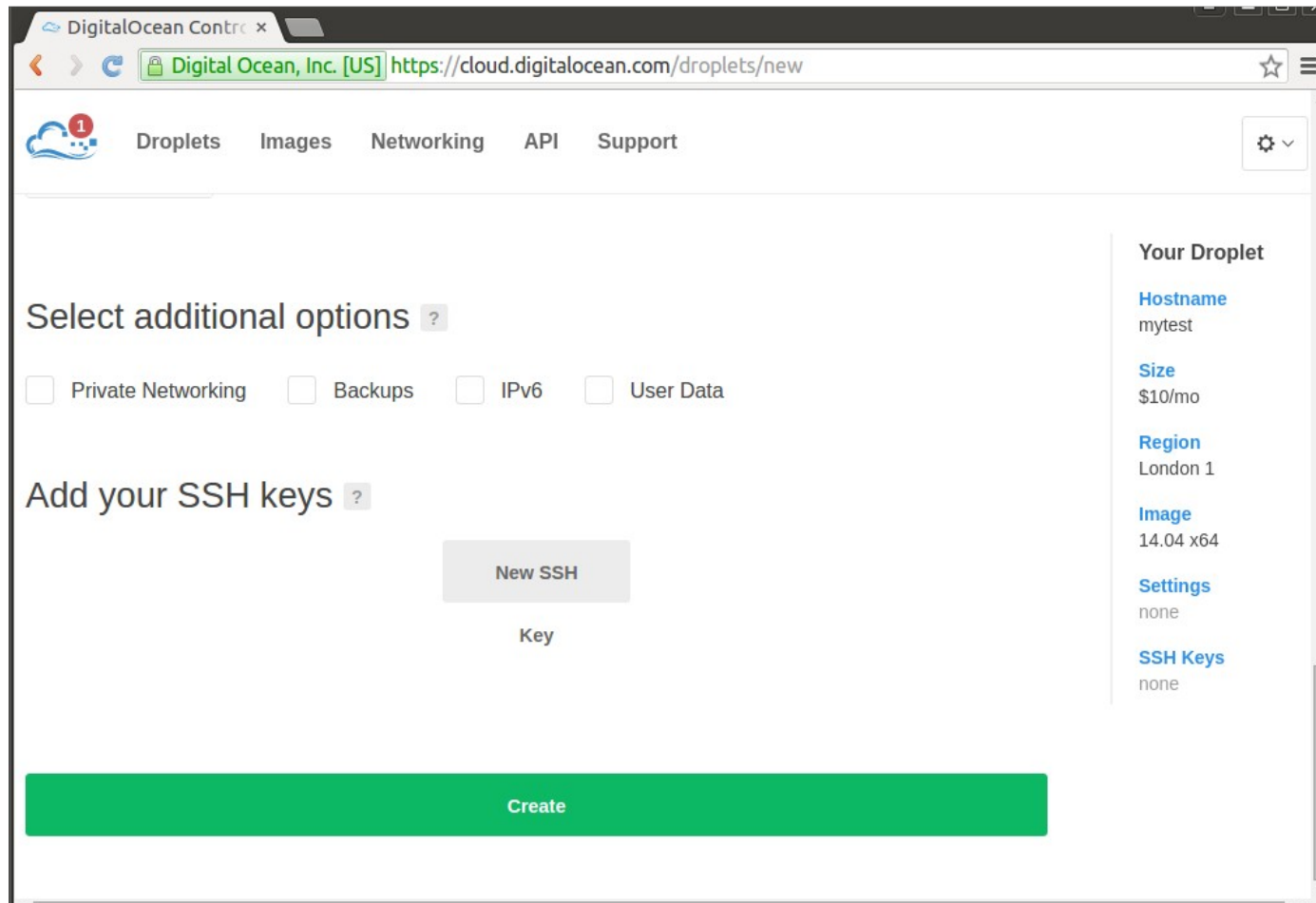
Your Droplet

- Hostname: mytest
- Size: \$10/mo
- Region: London 1
- Image: 14.04 x64
- Settings: none
- SSH Keys: none

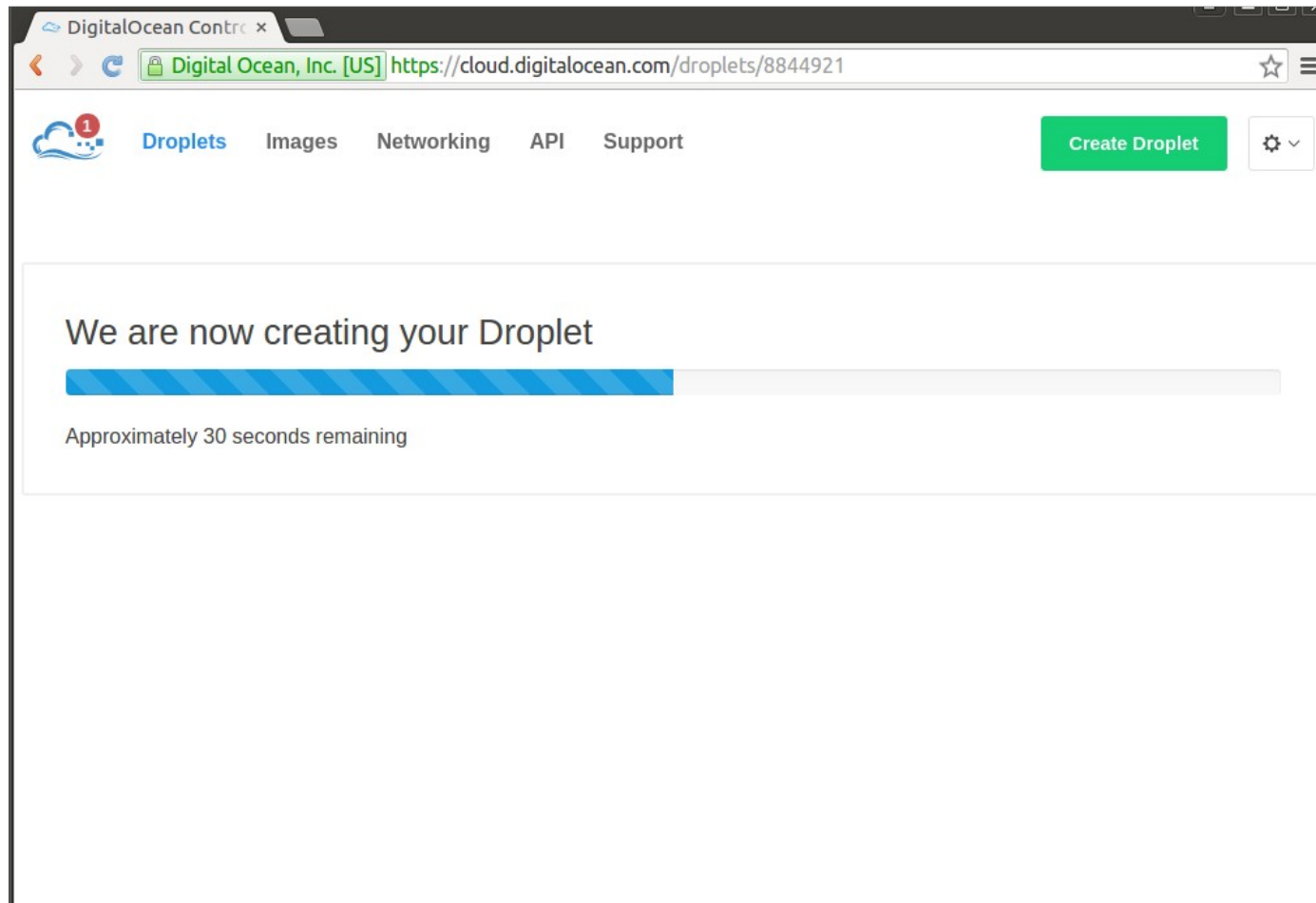
DigitalOcean στιγμιότυπα



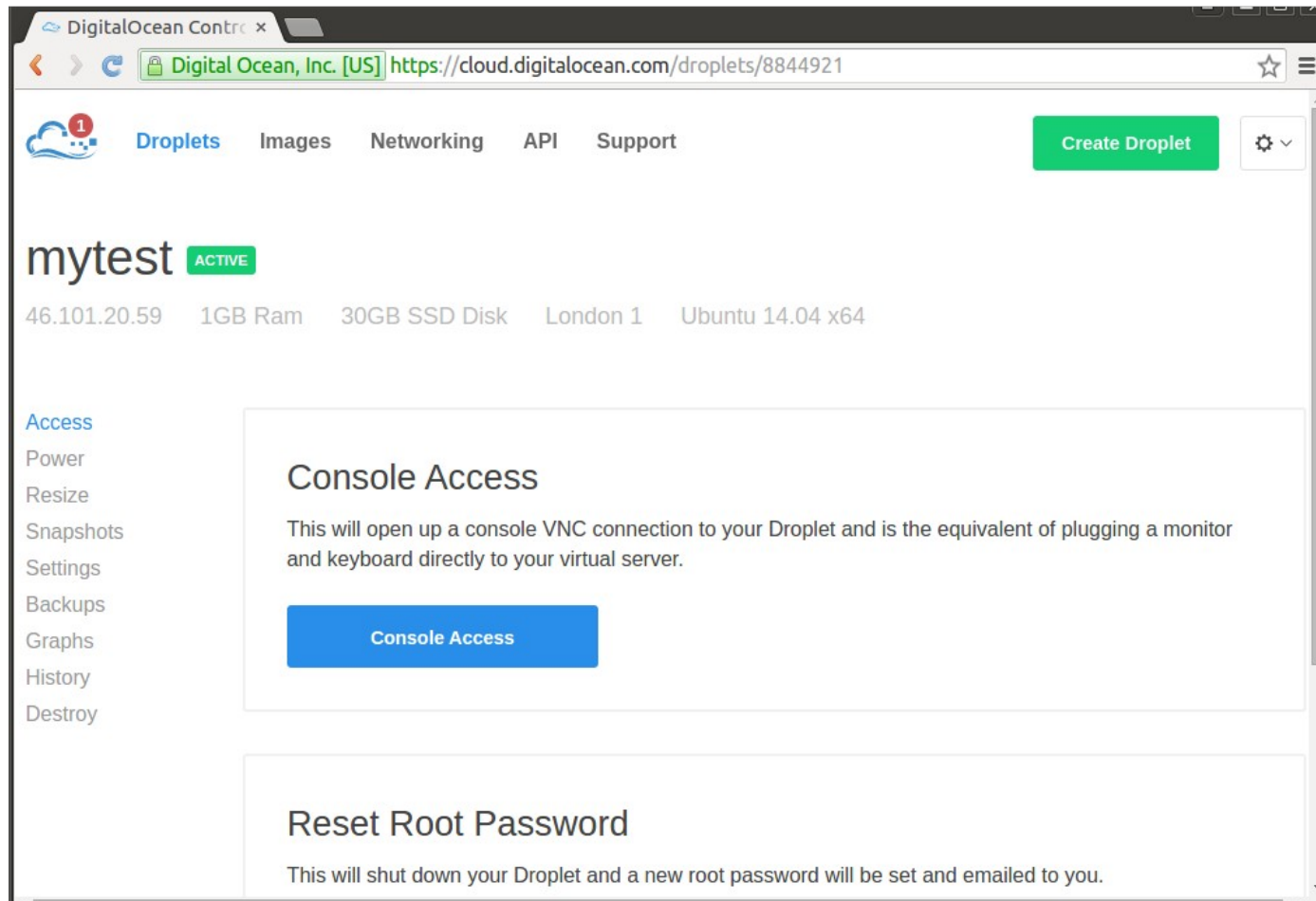
DigitalOcean στιγμιότυπα



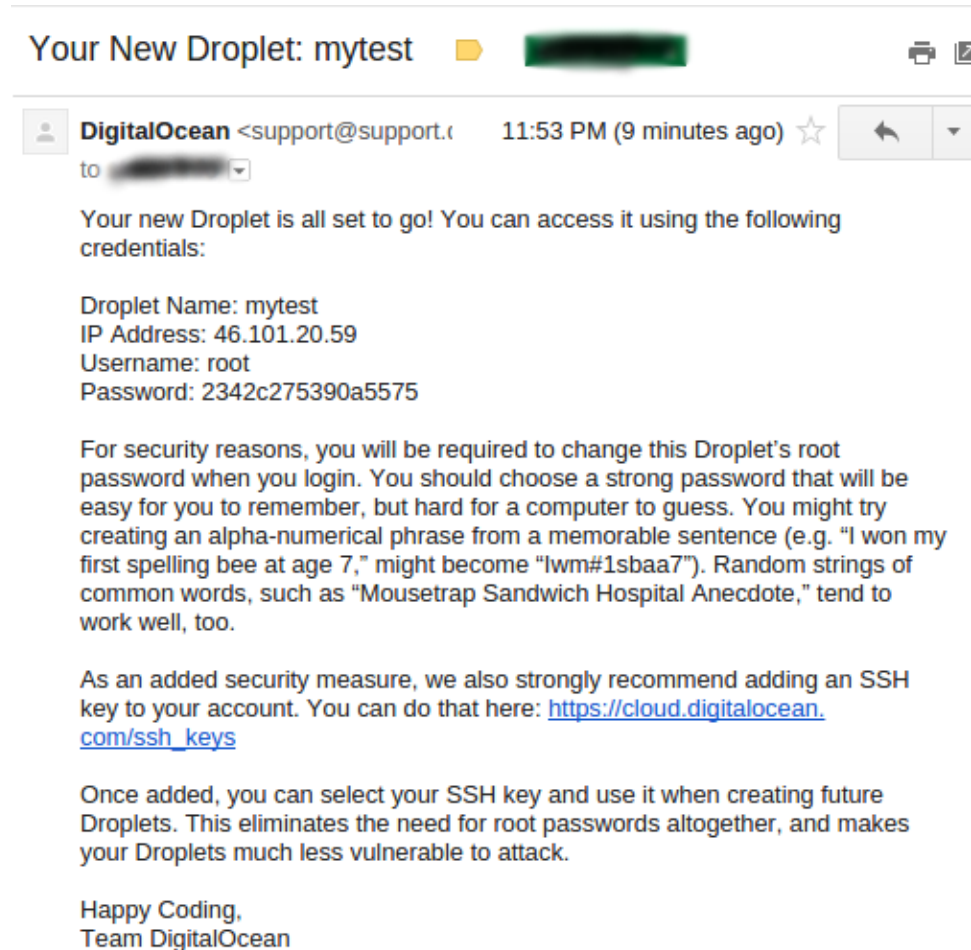
DigitalOcean στιγμαióτυπα



DigitalOcean στιγμιότυπα



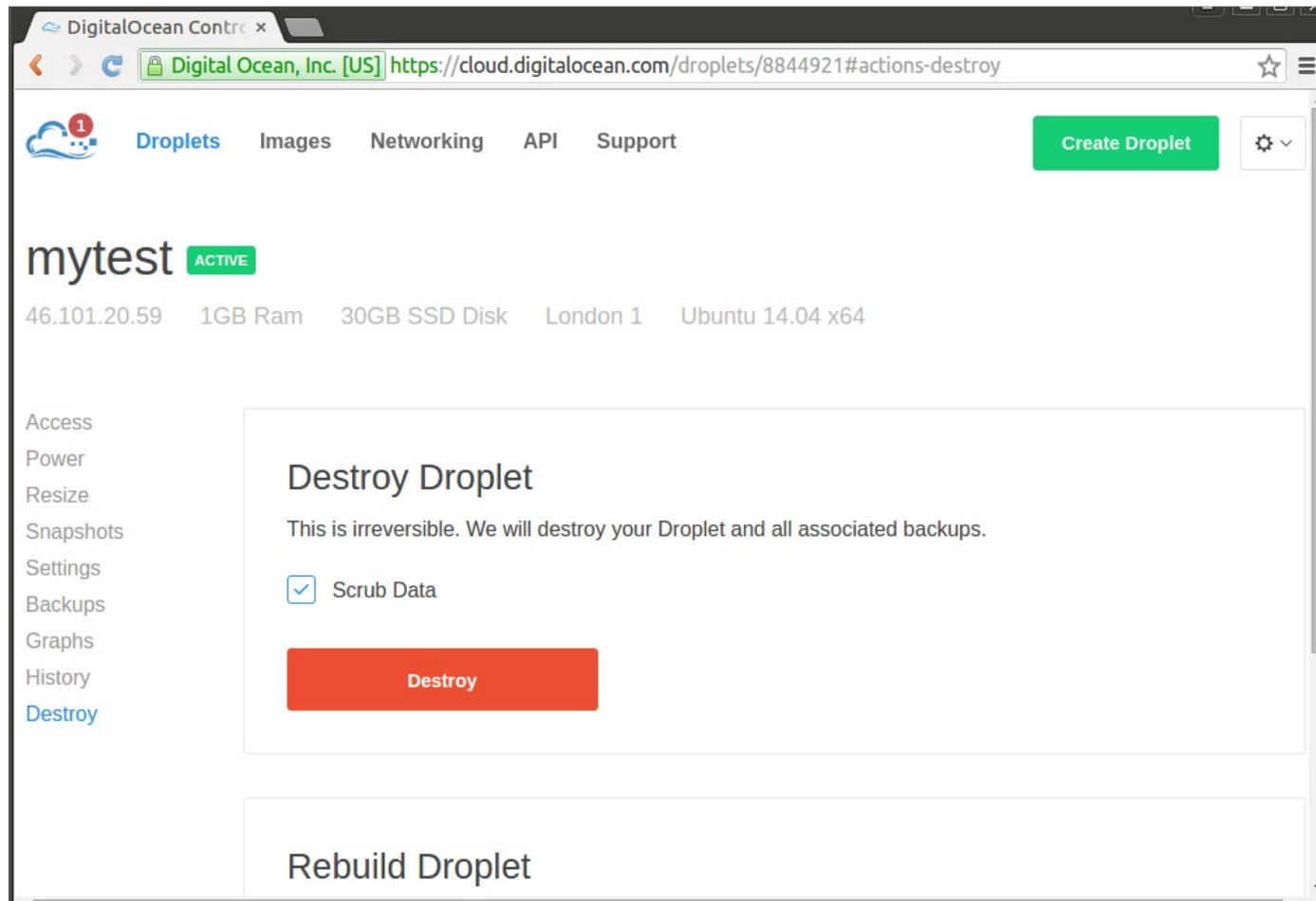
DigitalOcean στιγμιότυπα



DigitalOcean στιγμιότυπα

```
root@mytest: ~  
> ssh root@46.101.20.59  
The authenticity of host '46.101.20.59 (46.101.20.59)' can't be established.  
ECDSA key fingerprint is SHA256:rOAFPejMMmcwqhRqumeCcJqt/zq9cZmfhJ/crj73f+s.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added '46.101.20.59' (ECDSA) to the list of known hosts.  
root@46.101.20.59's password:  
You are required to change your password immediately (root enforced)  
Welcome to Ubuntu 14.04.3 LTS (GNU/Linux 3.13.0-57-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com/  
  
System information as of Tue Nov 17 16:53:07 EST 2015  
  
System load: 0.0                Memory usage: 5%    Processes:          52  
Usage of /:  4.8% of 29.40GB    Swap usage:  0%    Users logged in:  0  
  
Graph this data and manage this system at:  
  https://landscape.canonical.com/  
  
Changing password for root.  
(current) UNIX password:  
Enter new UNIX password:  
Retype new UNIX password:  
root@mytest:~#
```

DigitalOcean σιγμιότυπα



DigitalOcean εντολές

Σύνδεση

```
ssh root@46.12.210.23
```

Αρχικές εντολές

```
apt-get update
```

```
apt-get dist-upgrade
```

```
shutdown -r now
```

DigitalOcean εντολές και ρυθμίσεις

Εντολές

locale-gen el

Ρυθμίσεις

Στο /etc/ssh/ssh_config *μας*,

ServerAliveInterval 100

SSH public-key authentication

Εργαλεία

Εργαλεία

lsof -i (ενεργές συνδέσεις δικτύου)

free -m (χρήση μνήμης)

top / ps aux (διεργασίες σε εκτέλεση)

pstree -ahug (διεργασίες σε δενδρική μορφή)

lmap -d

iptables -L

vmstat -sSM

service --status-all

Εγκατάσταση Apache Web server

apt-get install apache2

ls -i

Επίσκεψη σελίδας μέσω IP.

Domain

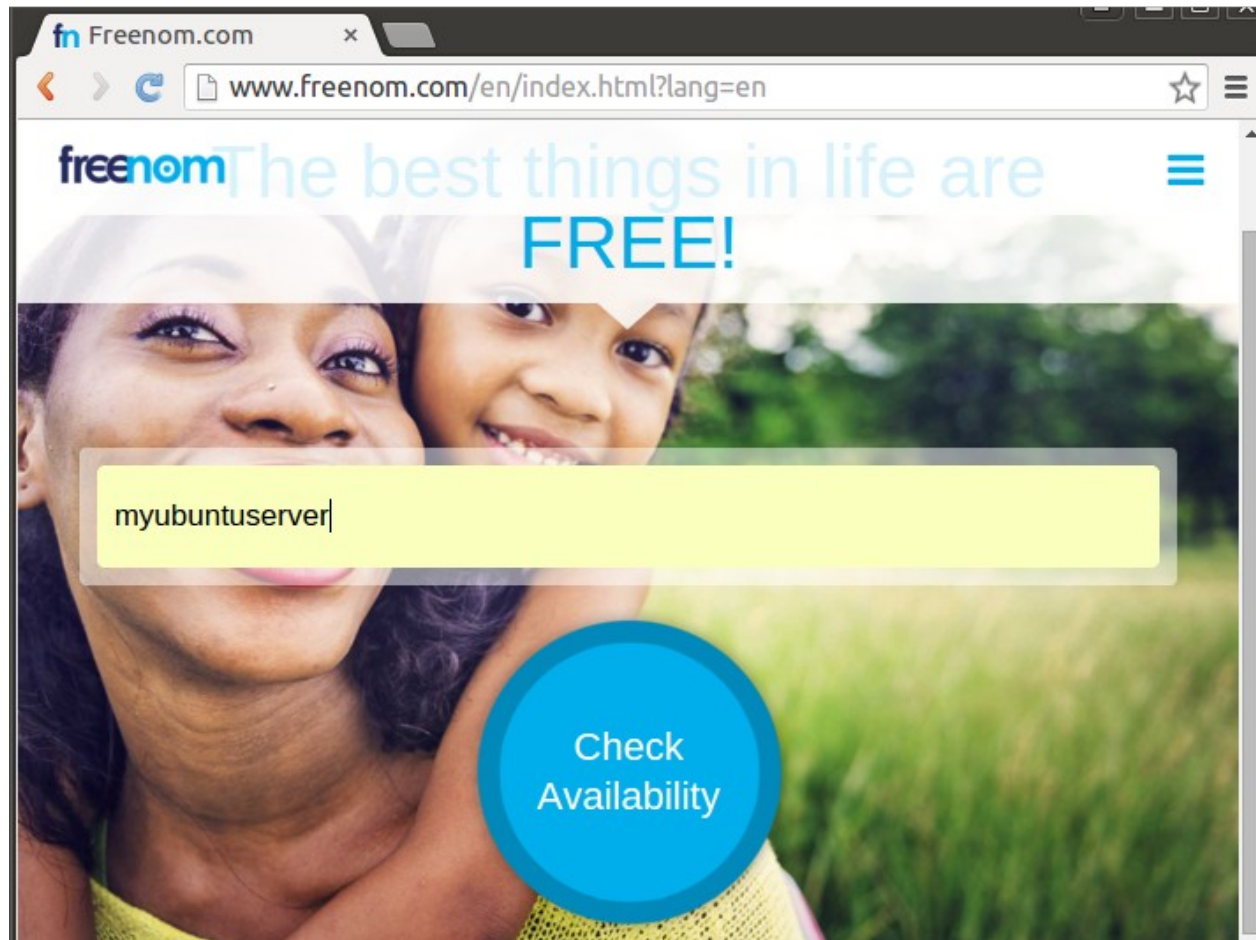
Περίπου €10 για διεθνή (ετήσιο)

Περίπου €15 για .gr (ανά δύο χρόνια)

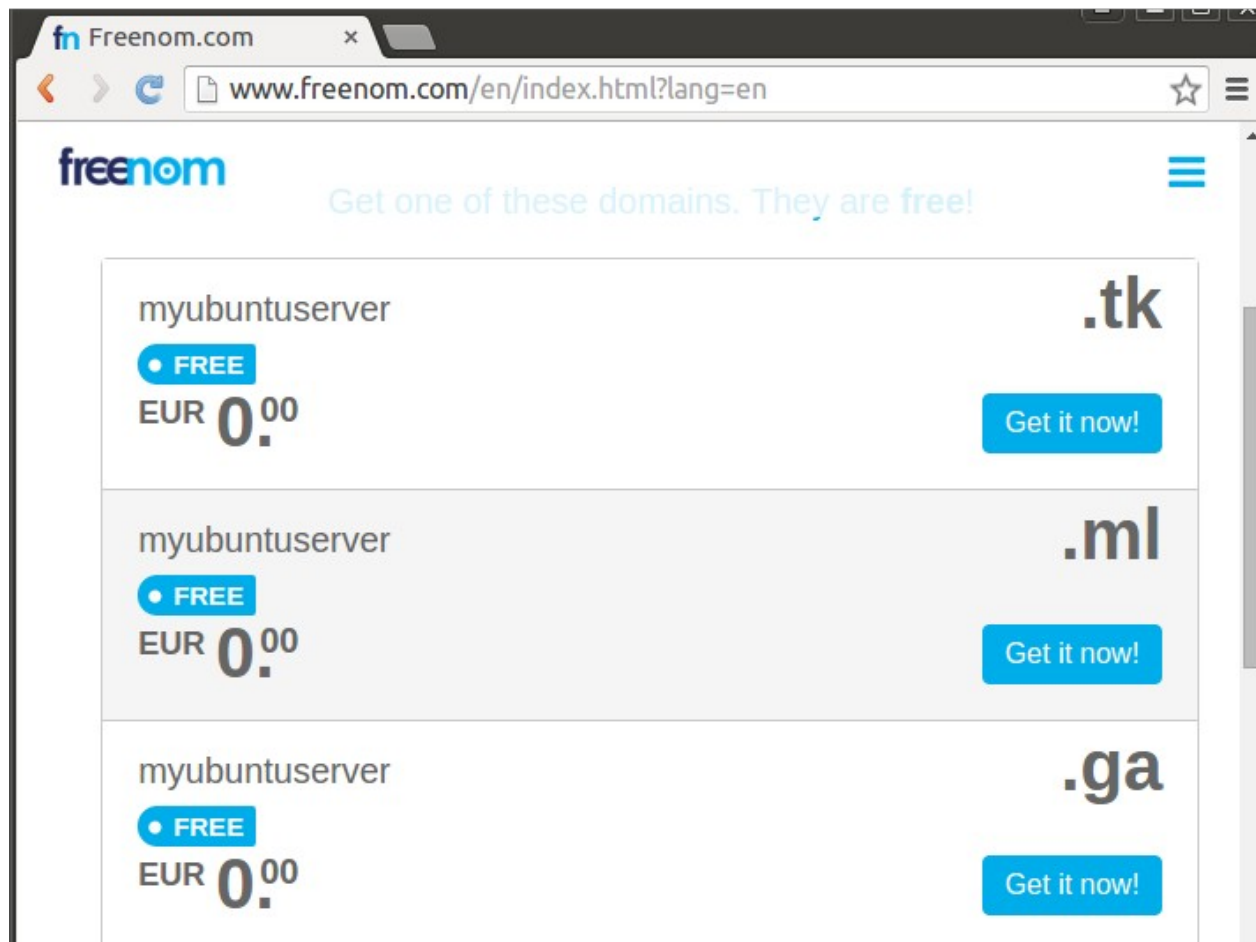
Δωρεάν: <http://freenom.com> (για .tk, .ga, κτλ)

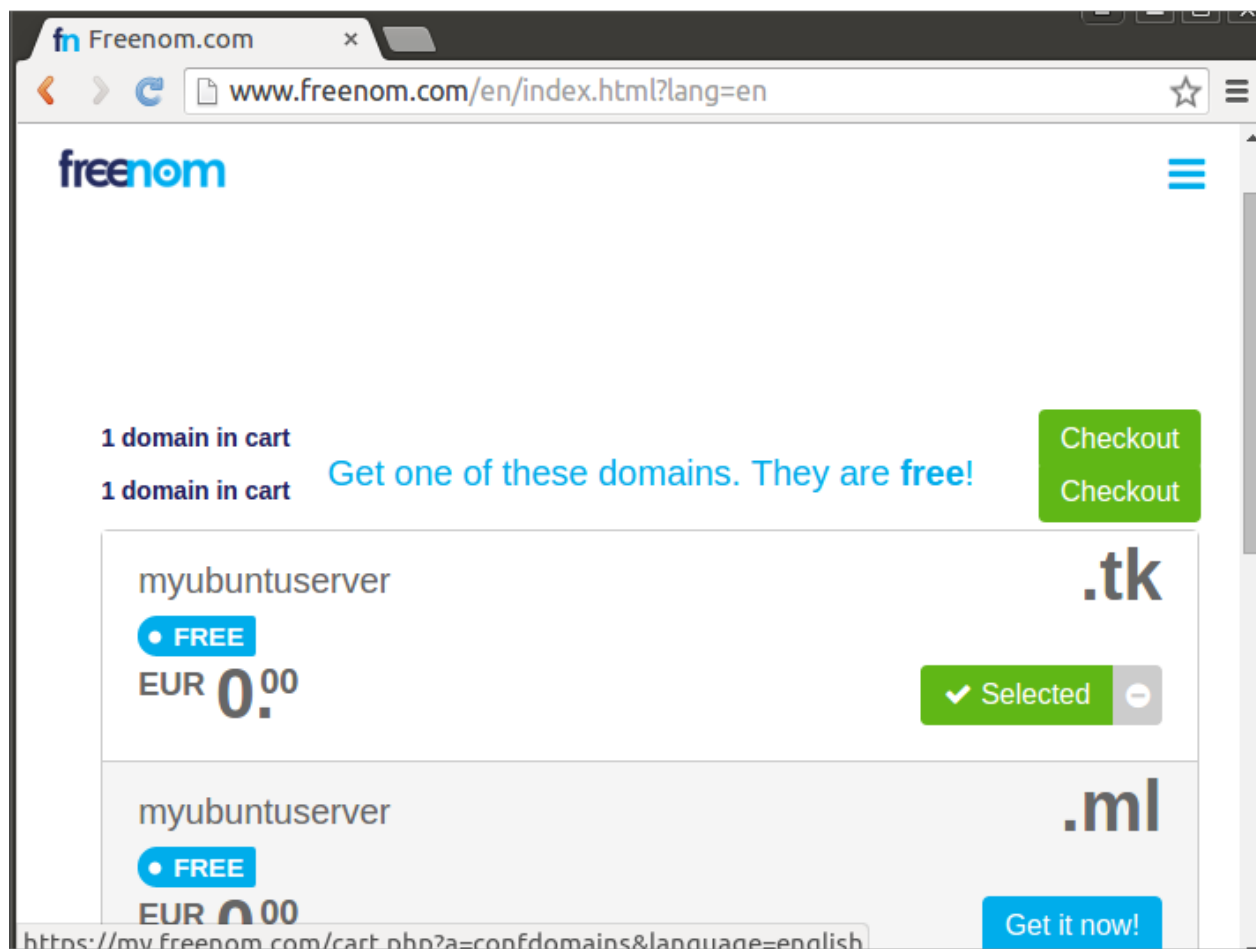
Προσφορά: Black Friday την Παρασκευή (π.χ. αναμένεται η Namecheap.com να έχει domain .com, κτλ στο \$1 για τον πρώτο χρόνο)

Freenom



Freenom






Shopping Cart - Free x


https://my.freenom.com/cart.php?a=confdomains&language=english

freenom

Find a new FREE domain

Check Availability

Domain  Use your new domain Period

myubuntuser.tk 

Forward this domain or Use DNS

3 Months @ FREE

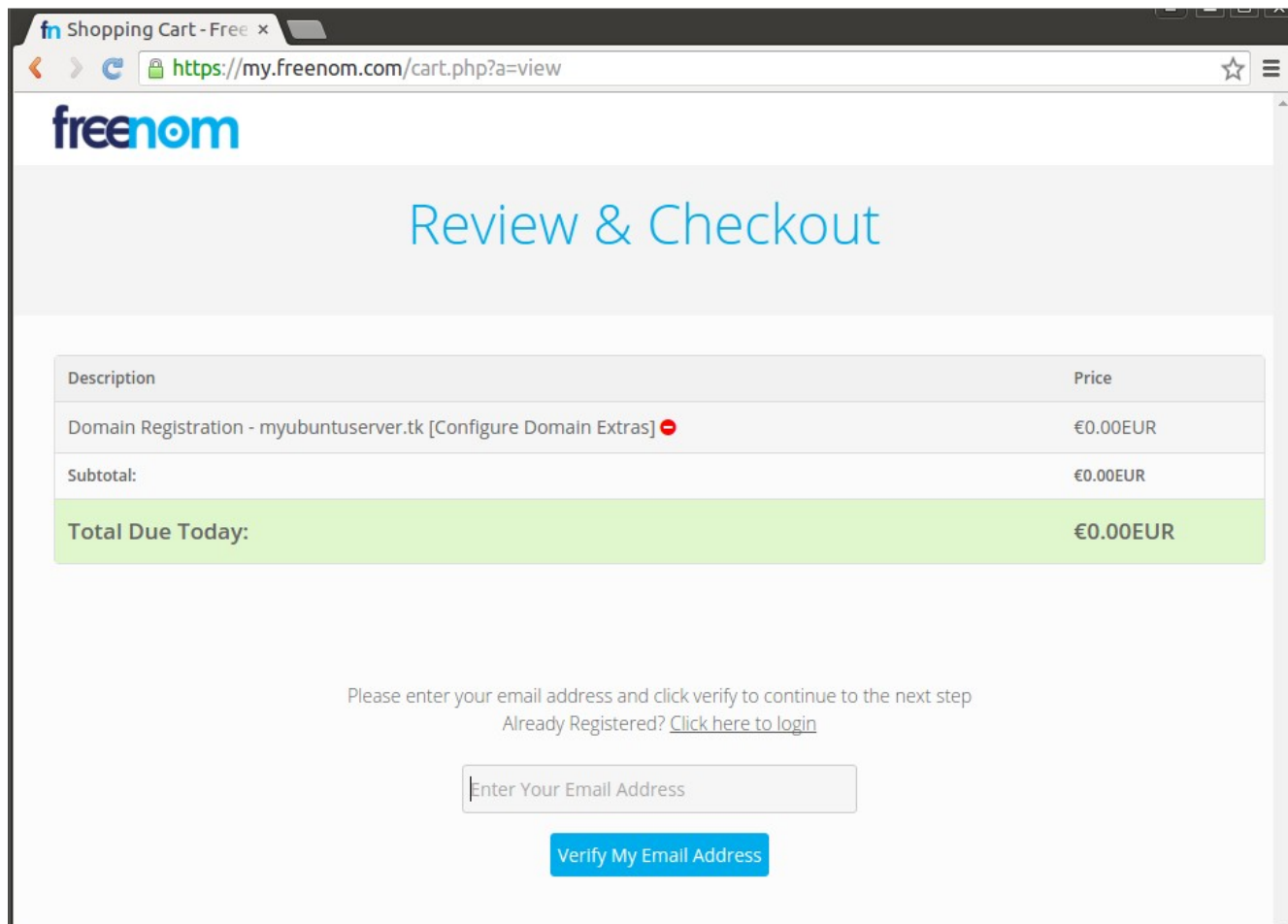
Use Freenom DNS Service Use your own DNS

Enter your A record here

Hostname myubuntusen IP address 46.101.20.59

Hostname www.myubun IP address 46.101.20.59

Continue



Shopping Cart - Free x

https://my.freedom.com/cart.php?a=checkout

freedom

AVAILABLE CREDIT BALANCE
€0.00EUR

Add Funds

Hello Simon!

Home Domains Billing Support Open Ticket

Register a New Domain

Review & Checkout

Description	Price
Domain Registration - myubuntuserver.tk [Configure Domain Extras]	€0.00EUR
Subtotal:	€0.00EUR
VAT NL @ 21.00%:	€0.00EUR
Total Due Today:	€0.00EUR

Your Details

New Customer Existing Customer

DNS MANAGEMENT for ubserv.tk

[Back to domain details](#)

Record added successfully

Name	Type	TTL	Target	
<input type="text"/>	A	<input type="text" value="300"/>	<input type="text" value="46.101.231.232"/>	Delete
MAIL	A	<input type="text" value="14440"/>	<input type="text" value="46.101.231.232"/>	Delete
WWW	A	<input type="text" value="300"/>	<input type="text" value="46.101.231.232"/>	Delete
IMAP	CNAME	<input type="text" value="14440"/>	<input type="text" value="ubserv.tk"/>	Delete
POP	CNAME	<input type="text" value="14440"/>	<input type="text" value="ubserv.tk"/>	Delete
PROXY	CNAME	<input type="text" value="14440"/>	<input type="text" value="ubserv.tk"/>	Delete
SMTP	CNAME	<input type="text" value="14440"/>	<input type="text" value="ubserv.tk"/>	Delete
<input type="text"/>	MX	<input type="text" value="14440"/>	<input type="text" value="mail.ubserv.tk"/> Priority: <input type="text" value="10"/>	Delete

Save Changes

DNS MANAGEMENT for ubserv.tk

[Back to domain details](#)

Record added successfully

Name	Type	TTL	Target	
<input type="text"/>	A	<input type="text" value="300"/>	<input type="text" value="46.101.231.232"/>	Delete
MAIL	A	<input type="text" value="14440"/>	<input type="text" value="46.101.231.232"/>	Delete
WWW	A	<input type="text" value="300"/>	<input type="text" value="46.101.231.232"/>	Delete

Save Changes

Add Record

Name	Type	TTL	Target	
<input type="text" value="ubserv.tk"/>	<input type="text" value="MX"/>	<input type="text" value="14440"/>	<input type="text" value="mail.ubserv.tk"/> Priority: <input type="text" value="10"/>	<input type="button" value="X Delete"/>

[+ More Records](#)

Save Changes


```
root@myserver: /var/log/apache2
66.249.64.25 - - [22/Nov/2015:18:27:30 -0500] "GET /b/historia-clinica-psicologi
ca.html HTTP/1.1" 404 530 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://w
ww.google.com/bot.html)"
66.249.64.15 - - [22/Nov/2015:18:28:05 -0500] "GET /i/B010EVXY16-Cavewomen-Dont-
Get-Fat-Paperback.html HTTP/1.1" 404 545 "-" "Mozilla/5.0 (compatible; Googlebot
/2.1; +http://www.google.com/bot.html)"
66.249.64.15 - - [22/Nov/2015:18:28:21 -0500] "GET /b/dermatology-illustrated-co
lour-david-gawkrodder.html HTTP/1.1" 404 549 "-" "Mozilla/5.0 (compatible; Googl
ebot/2.1; +http://www.google.com/bot.html)"
66.249.64.25 - - [22/Nov/2015:18:29:13 -0500] "GET /b/makalah-geng-motor.html HT
TP/1.1" 404 520 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.
com/bot.html)"
66.249.64.25 - - [22/Nov/2015:18:29:43 -0500] "GET /timthumb.php?src=http://ecx.
images-amazon.com/images/I/51M7eBFKseL.jpg HTTP/1.1" 404 507 "-" "Googlebot-Imag
e/1.0"
66.249.64.25 - - [22/Nov/2015:18:29:44 -0500] "GET /b/2012-colt-catalog-highres.
html HTTP/1.1" 404 526 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.
google.com/bot.html)"
66.249.64.25 - - [22/Nov/2015:18:30:04 -0500] "GET /b/pembagian-hadits-dari-segi
-kualitas-rawi-sanad-matan.html HTTP/1.1" 404 526 "-" "Mozilla/5.0 (compatible;
Googlebot/2.1; +http://www.google.com/bot.html)"
@
@
```

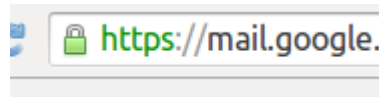
106,1 3%

Ο προηγούμενος πελάτης της IP
διέθετε ebooks όπως αυτό.

SSL/TLS

Πιστοποιητικά

- **Domain Validation (DV)**



- **Extra Validation (EV)**



Let's Encrypt (Public beta: 3 Δεκεμβρίου 2015)

<https://letsencrypt.org/>

Comodo Free InstantSSL (διαθέσιμο τώρα)

<https://ssl.comodo.com/free-ssl-certificate.php>

Τα DV θα αρχίσουν να δίνονται δωρεάν.

Comodo InstantSSL Free

Free SSL Certificate 90 days

Step 1: Provide your CSR

You must generate a Certificate Signing Request (CSR) on your webserver. [Click here](#) for help generating your CSR. When you have created your CSR you may continue with the enrollment.

After you have generated a CSR using your server software **copy and paste** the CSR text using an **ASCII text editor** into the CSR box below. Your CSR should look something like this:

```
-----BEGIN CERTIFICATE REQUEST-----
MIIDUDCCArkCAQAwTEWMBQGA1UEAxMNdGVzdC50ZXN0LnNvbTESMBAGA1UECXMJ
TWYya2V0aW5nMREwDwYDVQQKEWhUZXN0IE9yZzESMBAGA1UEBxMJVGVzdCBDaXR5
(more encoded data).....
Rq+blLr5X5iQdzyF1pLqP1Mck5Ve1eCz0R9/OekGSRno7ow4TVyxAF6J6ozDaw7e
GisfZw40VLT0/6IGvK2jX0i+I58RFQ8WYTOcTRIPnkG8B/uV
-----END CERTIFICATE REQUEST-----
```

1. Copy and paste your CSR into this box:

```
uRXB/9yHy5PUX6gftRdLC4hwlsUurXLmbIRICqJzgt9ee
0I0oSqJoYL8WYzQRR/W9oD585+QVhoSDzST25V4ERgEd1
AAGGADANBgkqhkiG9w0BAQsFAA0CAQEAJkhC7NkKqx2ITL
mFfqbpuGYCDjrAMWK6T8tuMKAw7YXb309/+iq9z2UFWTyN
dgHLXHo5fmp47NjmQkM4pJw0KFnKD+nnMxki1UukhsKub
PQ3PUiui6vI/JlcLhFmZMvVhCVWUztRdHTtMXq6to+MIq
T96/SapCNixayCKB5eddD3mwL+BhJ+ZiLRdayNdm0G64KN
wxSw7Hc+9CV/Fh9e6CKJ/FsdMI/F74vnb+oNasYjAsEL0k
-----END CERTIFICATE REQUEST-----
```

2. Select the server software used to generate the CSR:

Apache-ModSSL

3. Select the hash algorithm you would prefer us to use when signing your Certificate:

SHA-2

4. Select the validity period for your Certificate:

90 days

Note: You will be licensed to use this Certificate on an unlimited number of servers.

5. COMODO Newsletter:

☐ Opt in?

6. Comodo HackerGuardian Free Scan:

☐ Include Comodo HackerGuardian Free Scan?

Total Cost: €0.00

Next >

Εφαρμογές

Socks5 proxy

ssh -D 8080 **root@myubuntuserver.tk**

Μετά ρύθμιση Socks5 proxy (Ρυθμίζεις Ubuntu ή μόνο περιηγητή), με

Socks host: localhost, port: 8080

get_iplayer

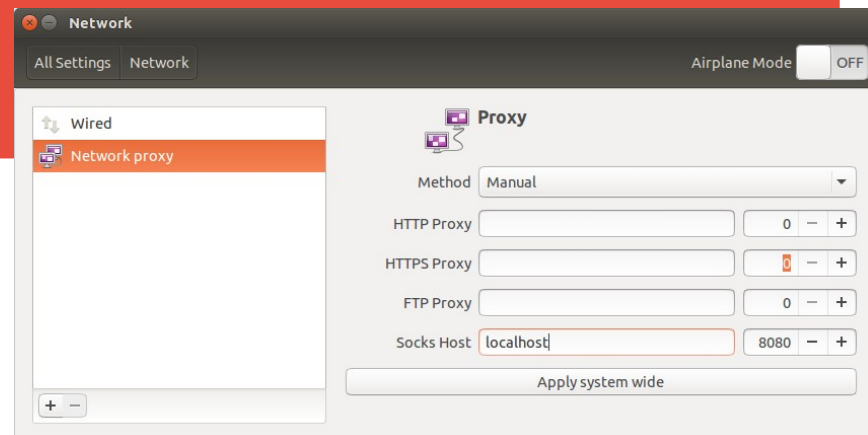
https://github.com/get-iplayer/get_iplayer

Proxy

sudo apt-get install squid3

Προσωπικό owncloud

<https://owncloud.org/>



Linux Foundation

LFCS (βασικές γνώσεις Linux)

<https://training.linuxfoundation.org/certification/lfcs>

LFCE (διαχείριση υπηρεσιών)

<https://training.linuxfoundation.org/certification/lfce>

Σε κάθε ένα από τα παραπάνω, έχει ενότητα «Overview of Domains and Competencies» με περιγραφή της ύλης.

Ευχαριστούμε!

Το Σταύρο και τη Μαρία για τη φιλοξενία στο Cube.