

maemo.org infrastructure plan

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Virtual Machines - Slim Hosting

Current HDD need: ??? GB

All VMs must run: [Ubuntu 12.04 LTS](#)

Dedicated jump server: **test** (#8)

All VMs are backed up. Backup and restore procedure tested before switchover and repeated once a month (with proper reports).

All VMs are accessible with **ssh** using **key based authentication** only (ie. no passwords).

All VMs are available via **ssh through the jump server** only. Exceptions are documented below.

DMZ refers to the internal, demilitarized zone that is firewalled from the Internet.

In this version:

- we merged VMs (we try to merge a couple of more)
- got rid of a load balanced maemo.org frontend
- got rid of apps.formeego.org as there is no OBS build farm to support it
- we offer an autobuilder environment for Maemo devices (N900 and older tablets)
- we **can not** offer build services for Harmattan community (N9 devices)
- put scratchbox.org for adoption (Ferenc is to send an email to the scratchbox community)

#	Name	RAM (GB)	HDD (GB)	Assigned domains	Inbound ports	Outbound ports	Remarks
1	www	6	30	maemo.org static.maemo.org	80, 443	80, 81, 443	Port 81 used by lighty (static.maemo.org).
2	wikibugs	2	50	wiki.maemo.org bugs.maemo.org	80, 443	80, 443	

3	stage	2	1000	stage.maemo.org	80, 443	80	SDK downloads (HDD hungry) Last VM to install when HDD is available.
4	mail	2	30	lists.maemo.org	25	25, 80	maemo.org MX record points here garage.maemo.org MX record points here garage.maemo.org emails are relayed to garage scratchbox.org emails relayed to scratchbox maemo mailing lists (developers, users, community)
5	scratchbox	2	30	scratchbox.org	80, 443 25 within DMZ only	80, 443	FOR ADOPTION
6	dns	2	30	dns.maemo.org	53	80	secondary DNS
7	repository	2	30	repository.maemo.org	80, 443	80	maemo Debian origin repository server
8	test	2	30	test.maemo.org	22, 80, 443	80, 443	jump server to access other servers
9	vcs	8	200	vcs.maemo.org drop.maemo.org	80, 443	80	svn and git source repositories maemo extras download dput upload for community (secured, restricted shell access for dput) autobuilder

10	garage	8	100	garage.maemo.org	80, 443 25 within DMZ only	80, 443	Debian incoming repo garage project homes garage mailing lists MX of garage.maemo.org points to MX of maemo.org
11	db	8	500	db.maemo.org (DMZ only)	--	80	dedicated DB server for every server that needs database backend dedicated storage for backups

Virtual Machines - Full Environment

Current HDD need: 1990 GB

All VMs must run: [Ubuntu 12.04 LTS](#)

Dedicated jump server: **test** (#14)

All VMs are backed up. Backup and restore procedure tested before switchover and repeated once a month (with proper reports).

All VMs are accessible with **ssh** using **key based authentication** only (ie. no passwords).

All VMs are available via **ssh through the jump server** only. Exceptions are documented below.

DMZ refers to the internal, demilitarized zone that is firewalled from the Internet.

#	Name	RAM (GB)	HDD (GB)	Assigned domains	Inbound ports	Outbound ports	Remarks
1	www1	6	15	maemo.org	80, 443	80, 443	Load balanced front end
2	www2	6	15	maemo.org	80, 443	80, 443	Load balanced front end
3	apps	4	30	apps.formeego.org	80, 443	80, 443	
4	wiki	2	30	wiki.maemo.org	80, 443	80, 443	
5	bugs	2	30	bugs.maemo.org	80, 443	80, 443	
6 last	stage	2	1000	stage.maemo.org	80, 443	80	SDK downloads (HDD hungry) Last VM to install when HDD is available.

7	mail	2	30	--	25	25, 80	maemo.org MX record points here garage.maemo.org MX record points here garage.maemo.org emails are relayed to garage scratchbox.org emails relayed to scratchbox
8	static	2	30	static.maemo.org	80	80	static content for maemo.org
9	lists	2	30	lists.maemo.org	25, 80, 443	80	mailing lists (developers, users, community)
10	maintenance	2	30	maintenance.maemo.org	80, 443	80, 443	central maintenance server of maemo.org frontends
11	scratchbox	2	30	scratchbox.org	80, 443 25 within DMZ only	80, 443	
12	dns	2	30	dns.maemo.org	53	80	secondary DNS
13	repository	2	30	repository.maemo.org	80, 443	80	maemo Debian origin repository server
14	test	2	30	test.maemo.org	22, 80, 443	80, 443	jump server to access other servers
15	vcs	2	50	vcs.maemo.org	80, 443	80	svn and git source repositories

16	garage	8	50 (500 final)	garage.maemo.org	80, 443 25 within DMZ only	80, 443	Debian incoming repo garage project homes garage mailing lists MX of garage.maemo.org points to MX of maemo.org
17	drop	2	30	drop.maemo.org	22	80	maemo extras download dput upload for community (secured, restricted shell access for dput)
18	db	8	500	db.maemo.org (DMZ only)	--	80	dedicated DB server for every server that needs database backend dedicated storage for backups

Physical servers

All servers must run: [OpenSuse 12.1](#)

Idea for HW: <http://www.fujitsu.com/fi/products/computing/servers/primergy/rack/rx300/>

Each server should have at least 2 NICs.

#	Name	RAM (GB)	HDD (GB)	Assigned domains	Inbound ports	Outbound ports	Remarks
1	builder1	64	500				autobuilder
2	builder2	64	500	build.obs.maemo.org api.obs.maemo.org	443, 80		OBS frontend and backend. probably BOSS VM too

3	obs1	64	500				worker
4	obs2	64	500				worker
5	obs3	64	500				worker

Load balancer

1 load balancer unit (LBU) to split load between the maemo.org frontends.

Domain name	Configured for	Inbound ports	Remarks
maemo.org	VMs: www1, www2	80, 443	
planet.maemo.org	VMs: www1, www2	80, 443	

Old server list - just for convenience

wml0220	10.129.133.10	Physical	Linux	www.maemo.org ()	Web server
wml0221	10.129.133.11	Physical	Linux	www.maemo.org ()	Web server
wml0222	10.129.133.20	Physical	Linux	garage.maemo.org ()	Garage

wml022 3	10.129.133.2 1	Physical	Linux	SSH:maemo.org ssh-hyppykone (), test.maemo.org ()	SSH to the external network
wml022 4	10.129.133.2 2	Physical	Linux	internal.maemo.org ()	Staging area for web servers
wml022 5	10.129.133.2 3	Physical	Linux	vcs.maemo.org ()	git/ svn.maemo.org
wml022 6	10.129.133.2 4	Physical	Linux	builder1.maemo.org ()	Autobuilder
wml022 7	10.129.133.2 5	Physical	Linux	maemo kvm1 ()	Virtual machine servers
wml022 8	10.129.133.2 6	Physical	Linux	maemo kvm 2 ()	Virtual machine servers
wml022 9		Physical	Linux	maemo kvm 3 ()	Virtual machine servers
wml023 0	10.129.133.2 8	Physical	Linux	apps.maemo.org (), mysql:maemo ()	MySQL DB
wml023 4	10.129.133.2 9	Virtual	Linux	wiki.maemo.org ()	Hosted on kvm1- 3
wml023 5	10.129.133.3 0	Virtual	Linux	bugs.maemo.org ()	Hosted on kvm1- 3

wml0236	10.129.133.31	Virtual	Linux	static.maemo.org ()	Hosted on kvm1-3
wml0237	10.129.133.32	Virtual	Linux	maintenance.maemo.org (3)	Hosted on kvm1-3
wml0238	10.129.133.33	Virtual	Linux	lists.maemo.org (3)	Hosted on kvm1-3
wml0239	10.129.133.34	Virtual	Linux	scratchbox.org (3)	Hosted on kvm1-3
wml0240	10.129.133.35	Virtual	Linux	stage.maemo.org (3)	Hosted on kvm1-3
wml0241	10.129.133.36	Virtual	Linux	Postfix:maemo (3)	Hosted on kvm1-3
wml0250	10.129.133.37	Virtual	Linux	drop.maemo.org ()	Uploads for extras
wml0252	10.129.133.39	Physical	openSUSE 11.2 (x86_64) VERSION = 11.2	builder2.maemo.org (3)	Maemo OBS frontend
wml0253	10.129.133.40	Physical	Linux	sso.maemo.org (3)	Web server for apps.formeego.org

wml0276	10.129.133.42	Virtual	Debian Linux	Maemo:secondary DNS ()	Sec. DNS for maemo & formeego
wml0349	10.129.133.16	Physical	OpenSUSE 11.3	repo-origin.apps.formeego.org	Akamai Origin for formeego repos
wml0350	10.129.133.17	Physical	OpenSUSE 11.3	obs-worker 1	OBS workers for apps.formeego.org
wml0351	10.129.133.18	Physical	OpenSUSE 11.3	obs-worker 2	OBS workers for apps.formeego.org
wml0348	10.129.133.15	Virtual	Ubuntu 11.04?	harmattan-dev	Harmattan documentation server
wml0354	10.129.133.43	Virtual	Ubuntu 11.04?	harmattan-bugs	Harmattan bugzilla