

bhyve  Con

Tokyo 2017

• FreeBSD • OpenBSD • NetBSD •

Thank you!



Kristijan Žic

Schedule

Welcome & Introductions

Roger Pau Monné: FreeBSD/Xen Status Report

Mihai Carabas: FreeBSD bhyve/ARM Status Report

**Benedict Reuschling: Browser-based RDP, VNC,
and SSH access using Guacamole**

Michael Dexter: FreeBSD bhyve Status Report and More

**Kristaps Džonsons: A Brief Yet Firm Survey of
BSD Sandboxes**

Mike Larkin: OpenBSD vmm/vmd Status Report

Roundtable Discussion

Feature	Reference	Date
vmrun.sh -u and -w flags	r314694	2017-03-05
bhyve(8) Capsicum Support	r313727	2017-02-14
Vagrant VM Support	r425054	2016-11-01
virtio-console Support	r305898	2016-09-17
UEFI Firmware Port	r418985	2016-07-24
Intel e1000 (e82545) network emulation	r302504	2016-07-09
UEFI-GOP HEAD Import	r302332	2016-07-04
Bhyve(8) Identify missing backing storage device	r300843	2016-05-27
UEFI GOP Announcement	bhyvecon 2016	

Feature	Reference	Status
9pfs Support	FreeNAS 10?	Ongoing
VM Suspend and Resume/Migration	rgrimes	Research
VGA Pass-through	rgrimes	Research
Nested EPT Support	OpenBSD?	Research
bhyve(8) libxo Support	rgrimes	Ongoing
CPU Topology	rgrimes	Review
UEFI NVRAM Support	grehan	Review
AMD PCI Pass-through	rgrimes	Review
Hypercall ABI	Domagoj Stolfa	Review
evdev/ums mouse absolute positioning	Vicki Pfau	Review

Hypercall ABI

Allow the VM to talk to the Host

Consolidate multiple traps into one

Allow mirage.io type management (VirtIO)

Emulate other hypervisors like KVM

As we speak...

bhyve Ryzen 1700 Support

bhyve CPU Topology Under Review

Thank you!

Questions?

This presentation was dogfooded with
FreeBSD 11 and LibreOffice

The screenshot shows the OpenStack dashboard interface. The browser address bar displays the URL `192.168.1.30/project/instances/86d5f23a-e3ad-4376-922f-60d808335346/`. The page title is "FreeBSD-11 - OpenStack Dashboard". The navigation menu on the left includes "Project", "COMPUTE", "Instances", "Volumes", "Images", "Access & Security", "Admin", and "Identity". The main content area shows the "FreeBSD-11" instance details, with tabs for "Overview", "Log", "Console", and "Action Log". The "Console" tab is active, displaying the following output:

```
Connected (unencrypted) to QEMU (Instance-00000009) [Send Ctrl/Alt/Del]
2097344, 2621632, 3145920, 3670208, 4194496, 4718784, 5243072, 5767360,
6291648, 6815936, 7340224, 7864512
.
Updating motd:.
Mounting late filesystems:.
Configuring vt: blanktime.
Generating RSA host key.
2048 SHA256:1/E13HvtDU19WfhA+rCUrXpuegLKvpmjJubwo1RwdHA root@freebsd-11.novalocal
(RSA)
Generating ECDSA host key.
256 SHA256:oMIgcGwXIYInNaoopBUku+XpWOD2q/m4LJ/eNMRWdmo root@freebsd-11.novalocal
(ECDSA)
Generating ED25519 host key.
256 SHA256:IUCoRwlnR1PtrxW1eG7u8QjlzAHgeuPEC7R3m0ZBHQY root@freebsd-11.novalocal
(ED25519)
Performing sanity check on sshd configuration.
Starting sshd.
Starting cron.
Starting background file system checks in 60 seconds.

Wed Jan 18 00:23:17 UTC 2017

FreeBSD/amd64 (freebsd-11.novalocal) (ttyv0)

login: █
```

github.com/nfvexpress

Thank you!



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