

Virtual Private Systems for FreeBSD

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What is VPS ?

- A new implementation of OS level based virtualization.
- Inspired by VIMAGE.
- Aims to provide very "native" environments at the lowest overhead possible.
- Tends to multiplex or duplicate system resources rather than isolate instances from each other.

Why ?

- Jail is great, but doesn't do full-featured virtualization.
- VMWare, Xen, ... don't scale for mass hosting.
- Virtuozzo does the job for Linux.
- People want to see it for FreeBSD.
- I waited for years and no one started a project like this.

Live demonstration

Current Status

- Early stage of development.
- Live migration works and supports apps like Apache, SSH, PostgreSQL, ...
- Several resources and special cases not yet supported.
- Privilege/Security concept not yet fully implemented.

Plans for the Future

- Support virtualization and live migration of anything possible.
- Snapshot/Restore support between different FreeBSD versions and i386/amd64.
- Implement or include proper resource limiting/accounting.
- In addition to the "vpsctl" utility a mighty management daemon, defined interface, GUI and "offline tools" for customers.

Resources

- Diffs, binary sets and documentation are available at <http://www.7he.at/freebsd/vps/> .

Thanks !

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