Virtualization Working Group

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BSDCan 2014
Agenda

- General status update
- Virtio + VMWare drivers - bryanv@
- Xen - royger@
- Bhyve device emulation - Leon Dang
- Audience: anything else ?
Status - bhyve

- In 10.0/amd64
- CURRENT features/fixes being MFC’d
- grub2-bhyve in ports
- For most modern Linux 64-bit distros
- FreeBSD 32-bit guest support
Status - bhyve UEFI

- Fork of Intel EDKII, OVMF build target
  - For bhyve instead of Qemu
  - Includes “CSM” BIOS emulation
    - For non-EFI aware o/s’s
- Being moved to a public git repo
  - Buildable on FreeBSD (need port help)
- Serial console: VGA being worked on
Status - bhyve net

• e1000/e1000e (82580) dev emu in progress
  • multiq, jumbo frames, TSO
• Patches for netmap backend support
• Thinking about:
  • “user-mode” using WANProxy/libuinet
  • simple kernel eth switch
Status - bhyve block

- zvol GEOM-avoidance in place (mav@)
- virtio TODO
  - async block
- SCSI
- Desired: BSD-licensed sparse image tools
  - vmdk/qcow2/vhd etc
bhyve futures

- AMD-SVM support (10.1)
- Windows guest support
  - requires UEFI (as does Illumos)
- ARM(64) host support
- State save/restore/migrate
- UCL configuration file
- Regression suite
Status - VBox

• Tracking Oracle releases
  • 4.3.10 released 3/25
  • Ports updated to 4.3.10 3/28
Status - HyperV

- In 10.0, amd64 and i386 guest support
- Recent Azure image announcement
- Needs help
Xen/Virtio/VMWare

• See upcoming presentations
Questions ?