



opensolaris™

EASY AS 123

就是這麼簡單



主題

- 檔案系統的新維度
- 作業系統的透明度
- 系統資源的虛擬化
- 桌面系統的新介面
- 軟體硬體的新組合
- 開發環境的新選擇

檔案系統的新維度 – 時間軸

○ ZFS

- ZFS is a combined file system and logical volume manager

○ Features

- Storage pools
- Copy-on-write transactional model
- Snapshots and clones
- Dynamic striping
- Cache management
- Adaptive endianness
- Deduplication (Build 128)

作業系統的透明度 – DTrace

○ DTrace

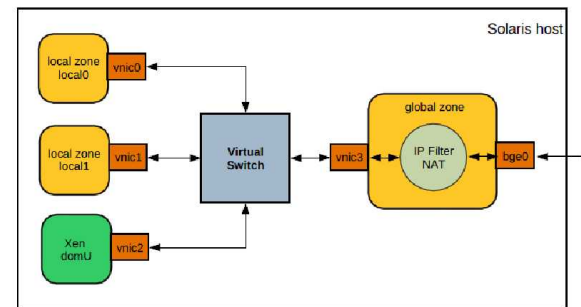
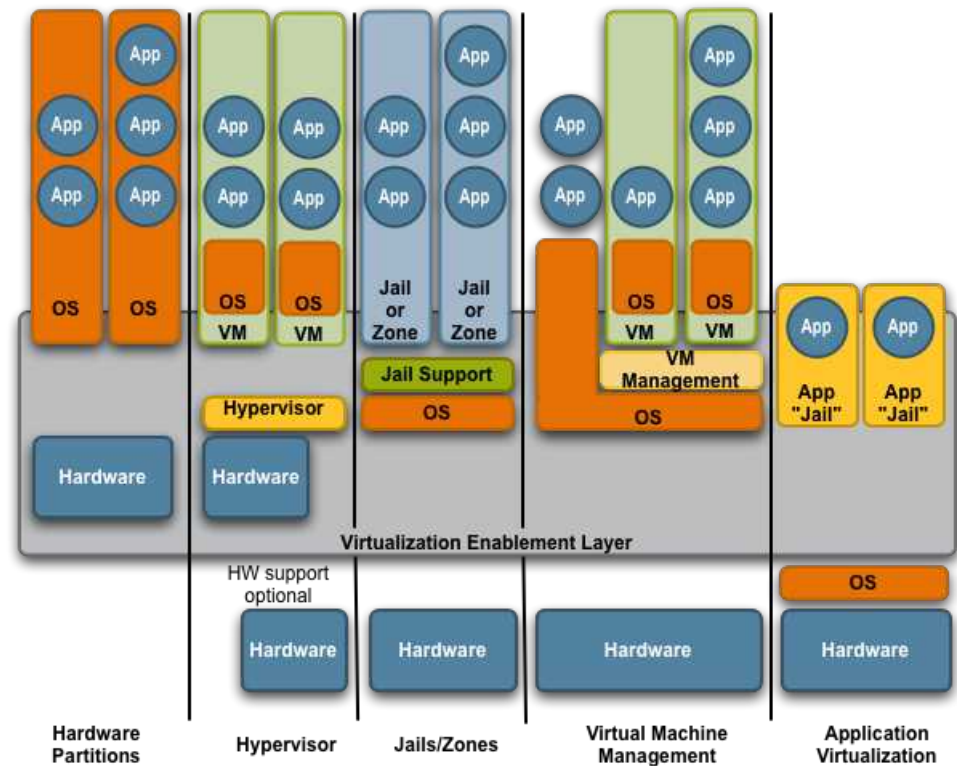
- designed to give operational insights that allow users to tune and troubleshoot applications and the OS itself

○ DTrace Tool Kit

- opensnoop
- execsnoop
- profiling
 - `dtrace -n 'profile-101hz{@[stack()] = count();}'`

系統資源的虛擬化

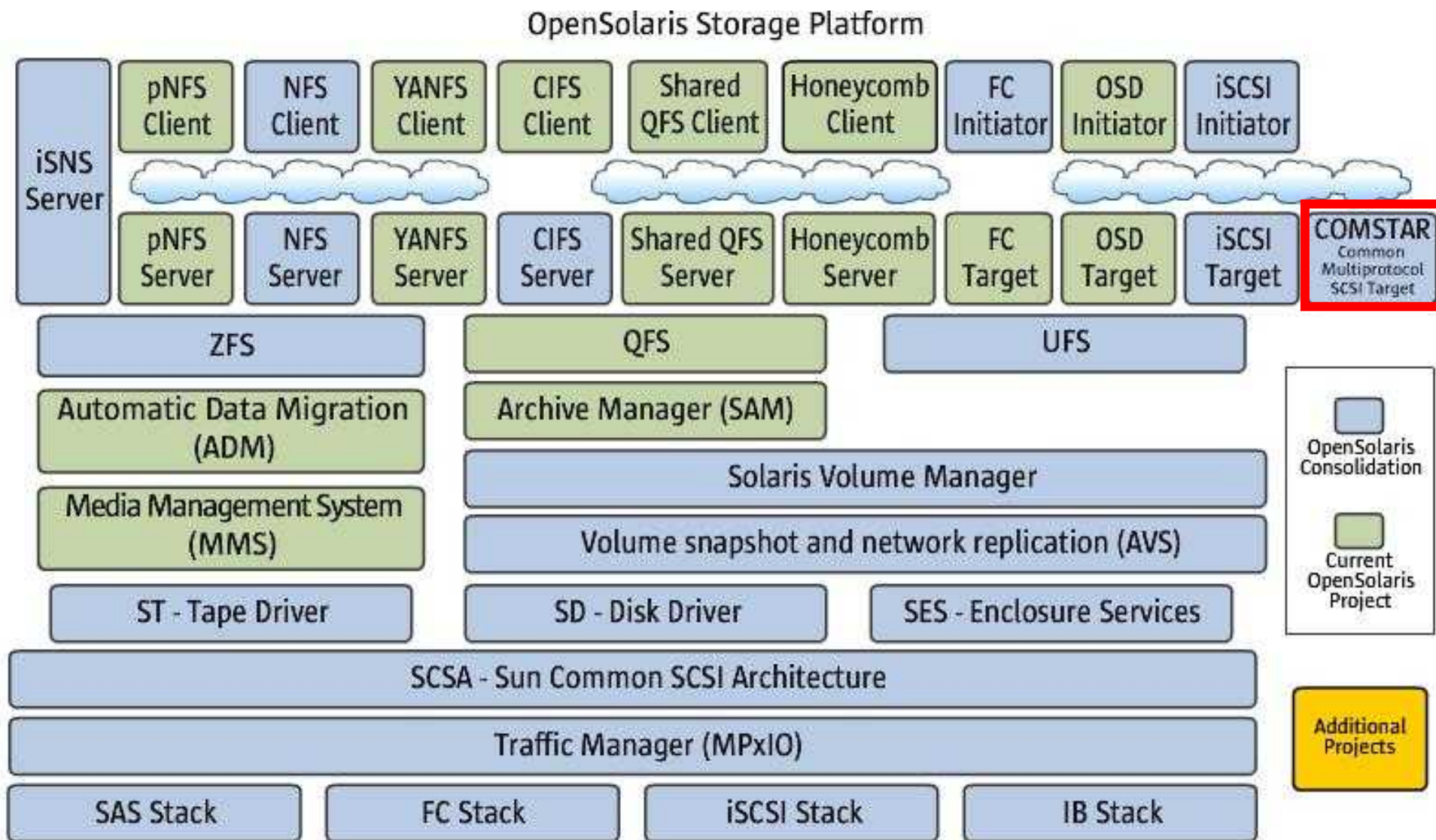
- VirtualBox
 - Type 2 Hypervisor
 - With ZFS, VNIC
- Containers
 - Zones, OS Jails
 - With ZFS, VNIC
- Solaris Hypervisor
 - Type 1 Hypervisor
 - With ZFS, VNIC
- Solaris Cluster



桌面系統的新介面 – GNOME

- Evince, A Document viewer
- Eye of GNOME, Image viewer
- gDesklets, Desktop widgets framework
- Gimp, Graphics package
- GStreamer
- Nautilus, File Manager
- Totem, Video and music player
- X-Chat, Relay Chat Client
- XMMS, Media Player

軟體硬體的新組合 – Open Storage



開發環境的新選擇 – OpenSolaris

○ Platform (MAP)

- MySQL
- Apache
- PHP

○ IDE

- NetBeans
- Eclipse

○ Revision Control System

- CVS (Concurrent Versions System)

結論

- 檔案系統的新維度 – ZFS
- 作業系統的透明度 – DTrace
- 系統資源的虛擬化 –
 - VirtualBox with ZFS, VNIC
 - Containers with ZFS, VNIC
 - Solaris Hypervisor with ZFS, VNIC
- 桌面系統的新介面 – GNOME
- 軟體硬體的新組合 – Open Storage
- 開發環境的新選擇 – OpenSolaris



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