ORACLE®

Oracle VM VirtualBox:
The Best Tool I Ever Used

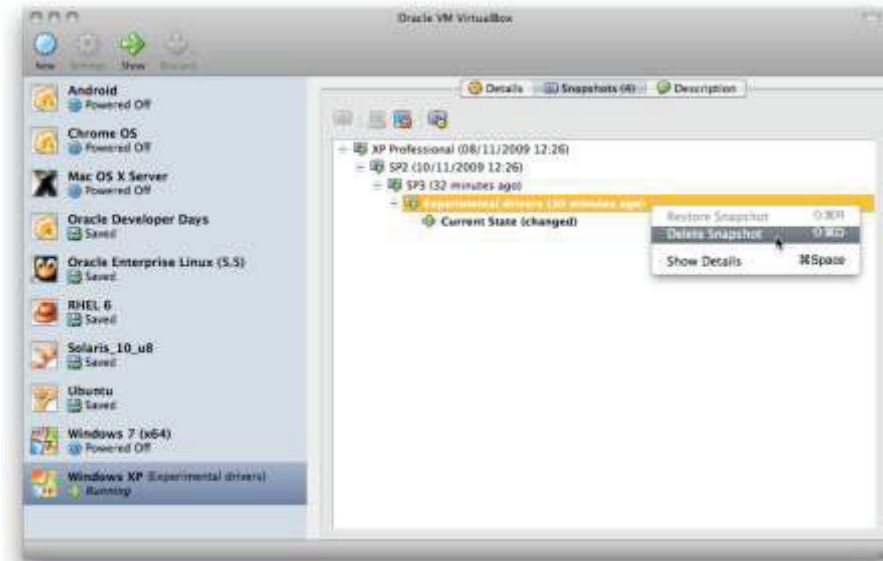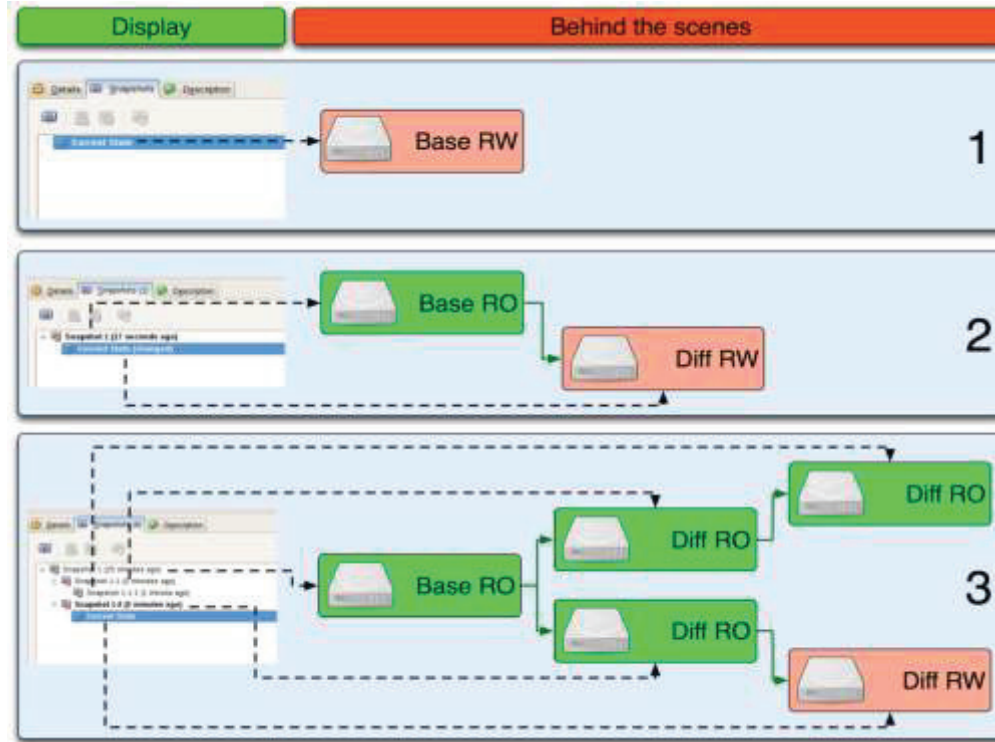Andy Hall
Director of Product Management

Snapshots

- Testing
  - Create a snapshot
  - Modify guest (e.g. patches, install apps, etc.)
  - Revert back to initial state
- Branching
  - Use different software levels of the guest (e.g. IE5, IE6, IE7, ...)
- Backup
  - Revert to a pristine base (e.g. viruses, ...)

ORACLE

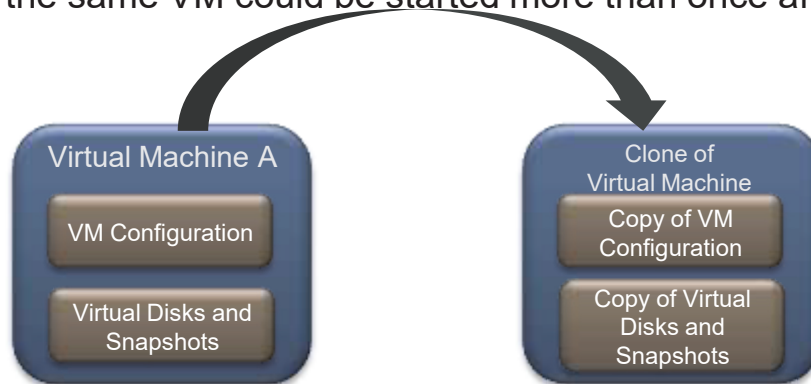# Snapshots

How Snapshots work

ORACLE

Cloning

Exact copy of VM either as full copy or in some linked way
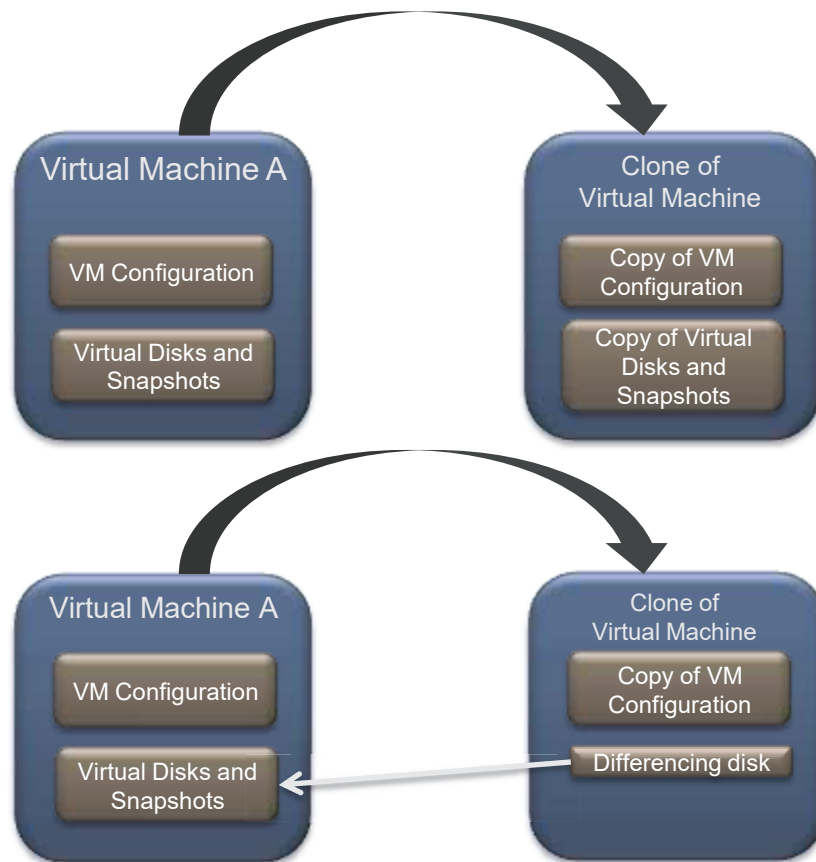
- Use cases:
  - **Backup:** create a full copy of an existing VM to have a backup
  - **Branching/Testing:** like Snapshots
  - **Template:** allow to create several VMs (which could than be modified) from one base state
  - **Replication:** the same VM could be started more than once after cloning (e.g. clusters, grids)

Virtual Machine A
VM Configuration
Virtual Disks and Snapshots

Clone of Virtual Machine
Copy of VM Configuration
Copy of Virtual Disks and Snapshots

ORACLE

Clones

Duplicate Virtual Machines

- Full Clones
  - Full copy
  - Disk UUIDs automatically made unique
  - Optionally MAC addresses made unique
  - VirtualBox Manager and CLI

- Linked clones
  - VM config is copied
  - A snapshot is taken at source
  - The clone uses a child differencing disk with source snapshot as parent

Virtual Machine A

VM Configuration

Virtual Disks and Snapshots

Clone of Virtual Machine

Copy of VM Configuration

Copy of Virtual Disks and Snapshots

Virtual Machine A

VM Configuration

Virtual Disks and Snapshots

Clone of Virtual Machine

Copy of VM Configuration

Differencing disk

ORACLE

Hardware and Software

ORACLE

Engineered to Work Together