

vmware<sup>®</sup>  
by **Broadcom**



PLATFORM9

Open-Source Migration Tool  
vJailbreak

# Migration challenges

## Scale

1000s of Virtual Machines

## Operating Systems

Many version of linux  
Many versions of windows

## Virtualization change

ESX to KVM

## Driver Change

- Paravirtual devices
- Storage devices
- Network devices

## Types of Migration

Cold or Warm

## Network Mapping

Different virtual networks on source and destination

## Complex VMs

Multiple NICs  
Multiple Disks

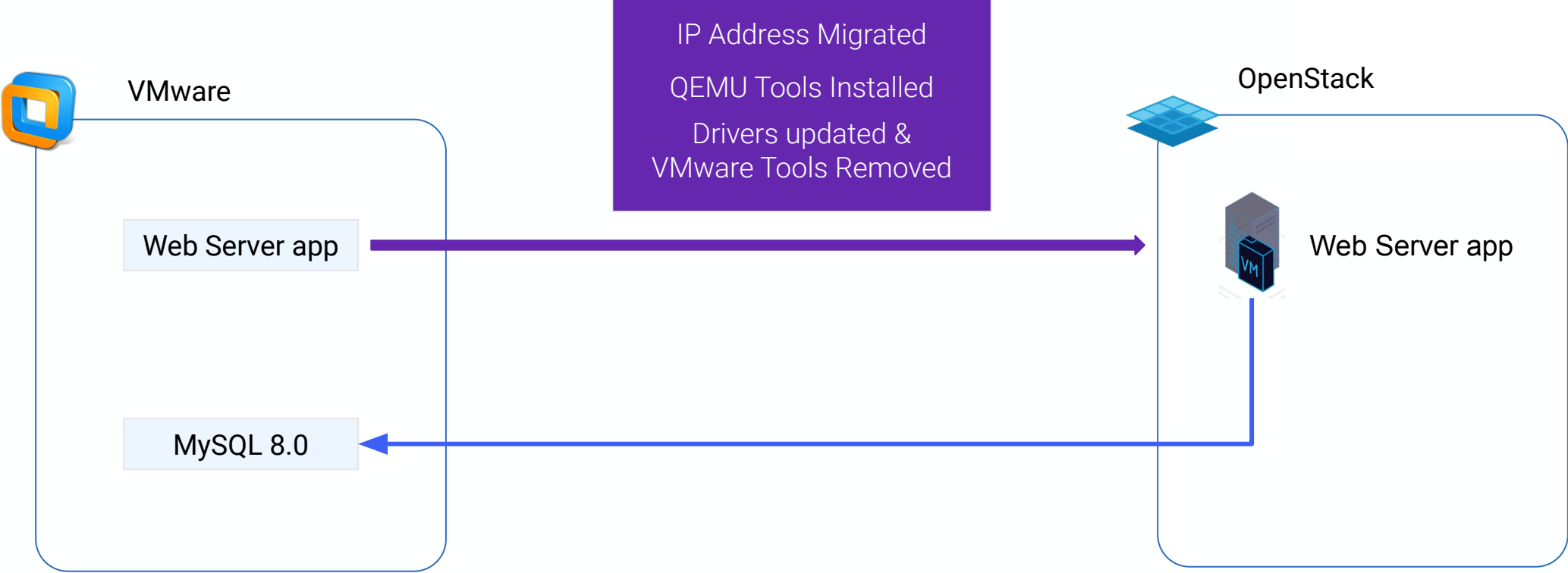
## Complex tooling

Terraform  
Ansible

# Highlights of vJailbreak

- Easy to use GUI
- Easy to approach for VMware users
- Support for cloud-native API
- Warm and cold VM migrations
- Schedule batch migrations
- Automated health checks
- Post-migration driver updates
- Rolling conversion of ESXi hypervisors to KVM

# Migrate & cutover with zero data loss and zero intervention



# Migrations powered by vJailbreak

## Migration Strategies

Serial or Parallel

### Cutover Window

The cutover window is an 'allowed' outage period of sorts. If the data replication exceeds the cutover window, the cutover will not happen.

### Advanced Options

Precreate Ports

Volume Types

Networks

## Post Migration Steps

Disk conversion

Update drivers for Networking

Update drivers for Storage

VMware Tools is Removed

QEMU Guest Agent Install

VMs maintain IP Addresses

## Coming Soon

### Rolling Migrations

Migrate node by node and simultaneously build a new environment whilst migrating

### Discovery & Topology Creation

Automated network discovery and creation of PCD networks

# User Interface



## vJailbreak

Ready to migrate from VMware to OpenStack?  
Click below to start moving your VMware workloads to OpenStack with ease.

START MIGRATION

### Getting Started

[Quick Start guide to vJailbreak](#)

[Supported VMware and Destination Platforms](#)

[How is Data Copied?](#)

[How is the VM converted?](#)

### Advanced Topics

[Migrating Workflow: by VM, by Host, by Cluster](#)

[Pre and Post Migration Callouts](#)

[Freeing up ESXi host hardware for KVM](#)

# Migration Form

## 1 Source and Destination Environments

Source VMWare

vCenter Server \*

Datacenter Name \*

Username \*

Password \*

Destination Platform

OpenStack RC File \*

CHOOSE FILE

## 2 Select Virtual Machines to Migrate

Search...

VM Name

No VMs discovered

Rows per page: 5 0-0 of 0 < >

# Migration Form

## 2 Select Virtual Machines to Migrate

VM Name	
<input type="checkbox"/>	winserver2k22-db
<input type="checkbox"/>	winserver2k16
<input checked="" type="checkbox"/>	winserver2k22-app
<input checked="" type="checkbox"/>	winserver2k22
<input type="checkbox"/>	winserver2k19

2 rows selected

Rows per page: 5 1-5 of 5

## 3 Network and Storage Mapping

### Map Networks

VMware Network	Openstack Network	Action
No Mappings Created		
<input type="text" value="VMware Network"/>	<input type="text" value="Openstack Network"/>	<input type="button" value="+"/>

### Map Storage

VMWare Datastore	OpenStack VolumeType	Action
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#### 4 Migration Options (Optional) ^

Data Copy Method

Copy live VMs, then power off

Data copy start time

Data Copy Start Time

Cutover Options

Cutover immediately after data copy

Post Migration Script

Post Migration Script

Retry On Failure

**Thank You!**