



Moving Virtual Machines to the Cloud (and Back) Painlessly?

BIWA Summit 2017

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Abstract for session

In this presentation we will discuss the current options available for moving various types of virtual machines to the cloud and the challenges inherent in doing so. We will discuss how Oracle Cloud Infrastructure as a Service compares to other major players such as AWS and how products such as Ravello may actually make a true dev / test / prod hybrid cloud practical. VlamiS will share insights from the experience of deploying their own business applications in the cloud and engage attendees on their own experiences.



Agenda

- Introduction VlamiS Software Solutions
- How VlamiS and VlamiS Customers use VM's
- The problem with the Cloud
- Oracle Ravello review
- Additional topics



Arthur Dayton

Arthur Dayton – Senior Consultant

- Financial Accounting background
- BS in Accounting / MS Management Information Systems
- Adjunct Technology Professor at University of Nebraska
- 10+ years developing with Oracle software
- Many years as an Oracle customer
- Twitter - [@arthurdayton116](https://twitter.com/arthurdayton116)
- Blog – VlamiS.com & helpmewithoraclebi.wordpress.com

VlamiS Software Solutions

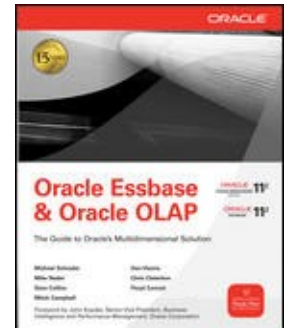
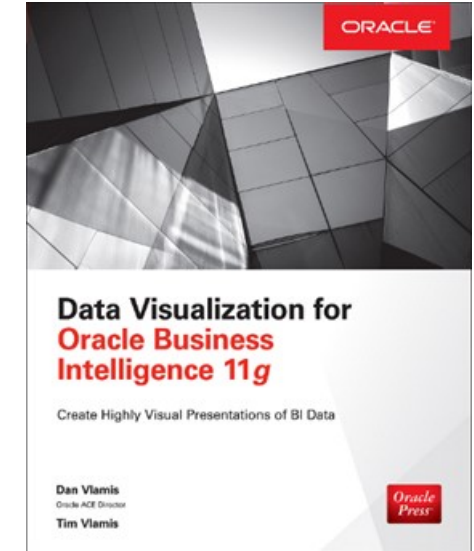
- VlamiS Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
 - Enterprise Business Intelligence & Analytics
 - Analytic Warehousing
 - Data Mining and Predictive Analytics
 - Data Visualization
- Multiple Oracle ACEs, consultants average 15+ years
- www.vlamiS.com (blog, papers, newsletters, services)
- Co-authors of book “Data Visualization for OBI 11g”
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Oracle University Partner
- Oracle Gold Partner

 EDUCATION RESELLER

 APPROVED
EDUCATION CENTER

 Gold
Partner

Specialized
Oracle Business Intelligence
Foundation Suite 11g





Virtual Machine Use Cases

- Vlami
 - Demo
 - Development
 - Proof of Concept
 - New Release Review
- Customers
 - Dev / Test / Prod
 - Demo and Training

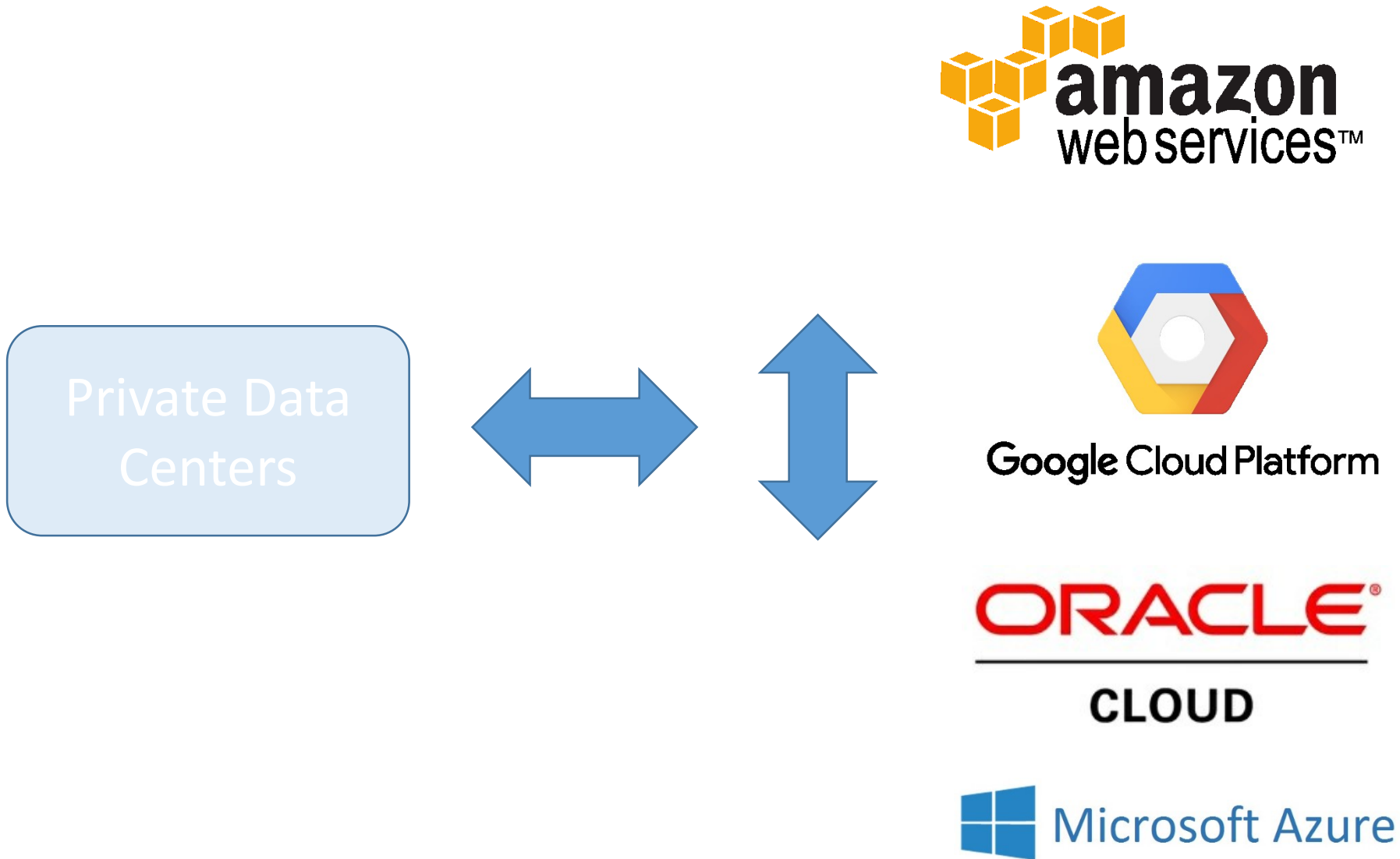


The problem with Cloud

- Pricing can be hard to decipher ahead of time
- It's not really “the cloud” it's “a cloud”
- Portability is painful
- Technologies are rapidly evolving
- Sprawl



The Promise of the Cloud





How's that going?

Private Data
Centers

*Expletive
Deleted*

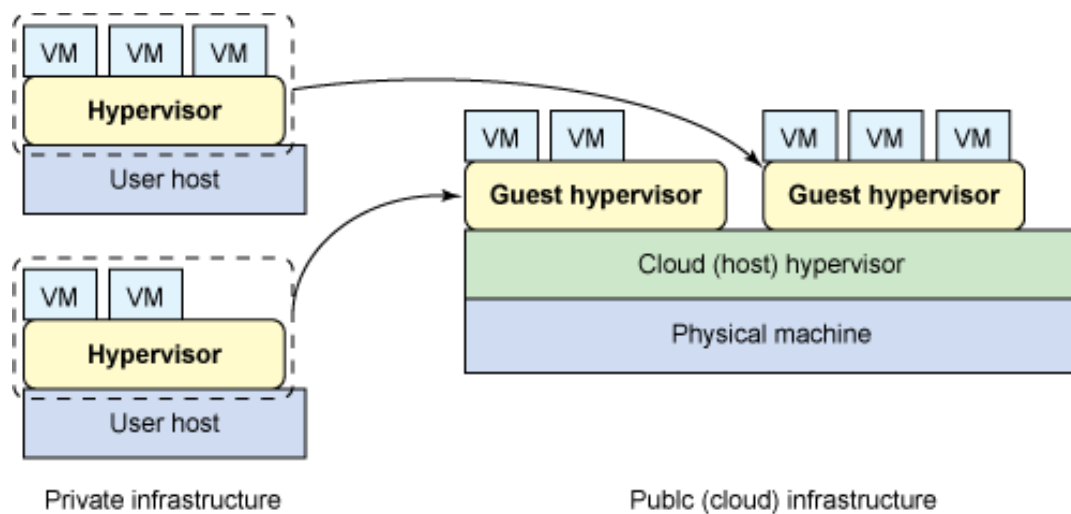


Google Cloud Platform

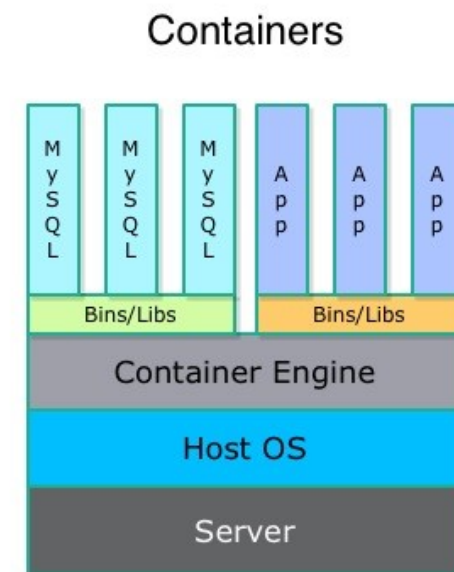
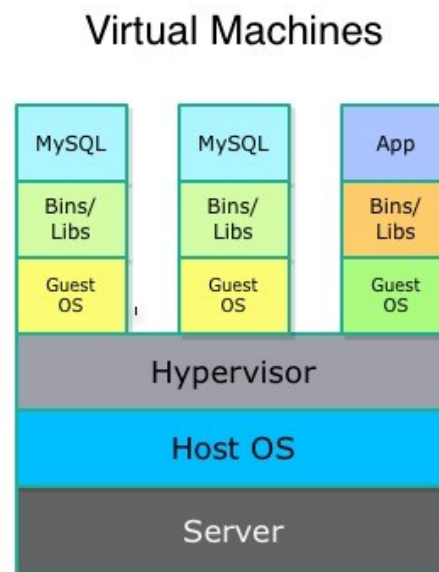




Enabling Technology



Nested Virtualization



Containerization



Are we closer?

ORACLE®



ravello
systems



How is it different?

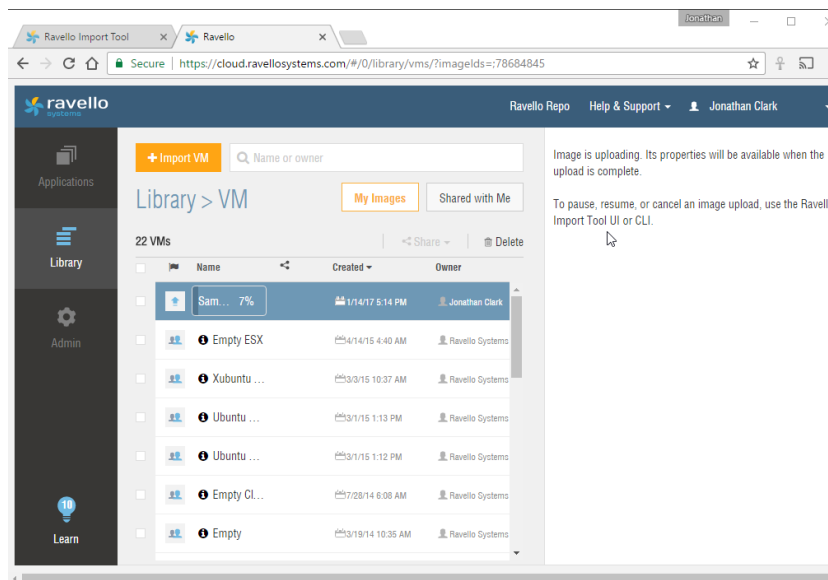
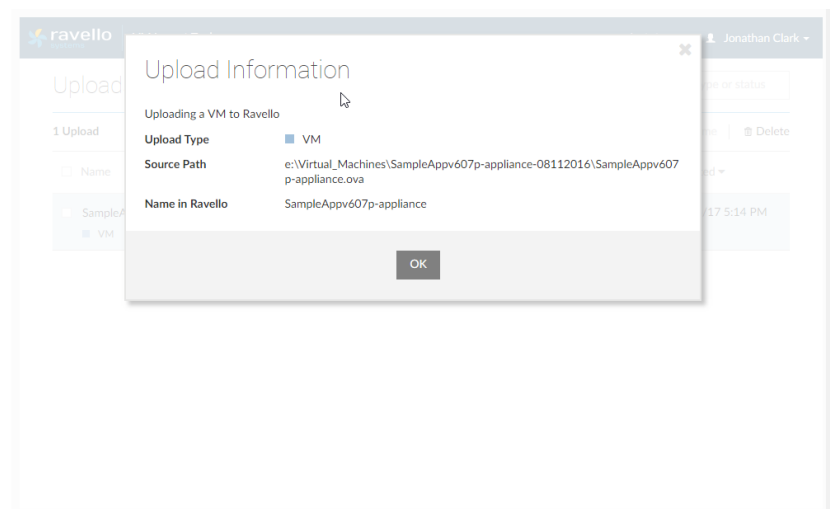
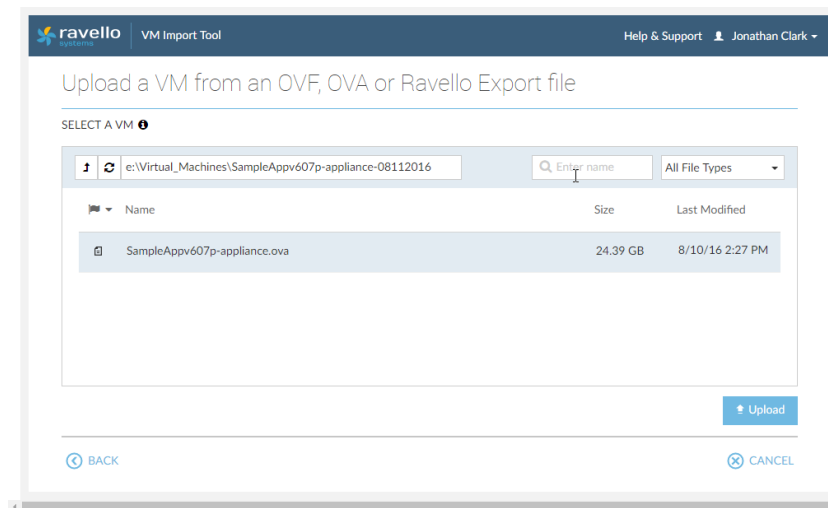
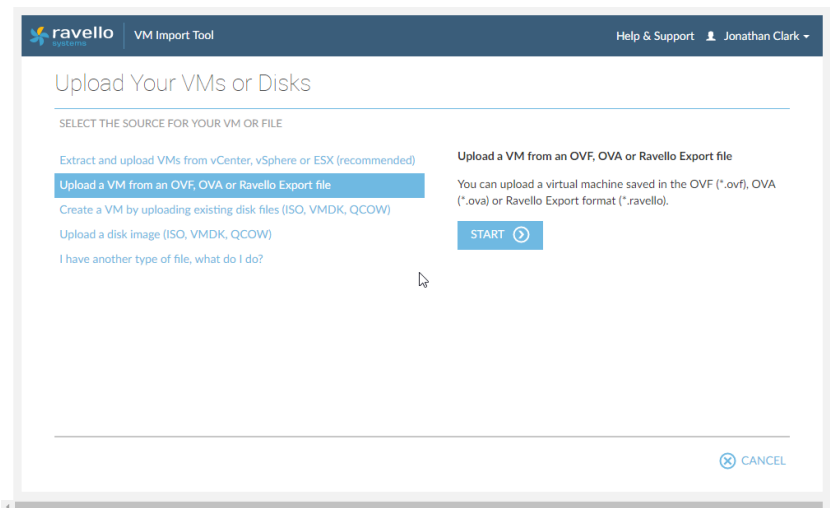
My Virtual
Machine(s)



I Don't Care

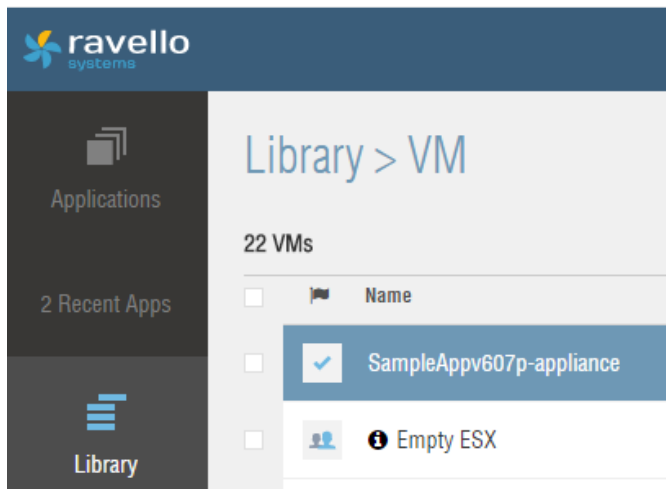


ravello upload Sample App VM





Publish Uploaded VM as Application



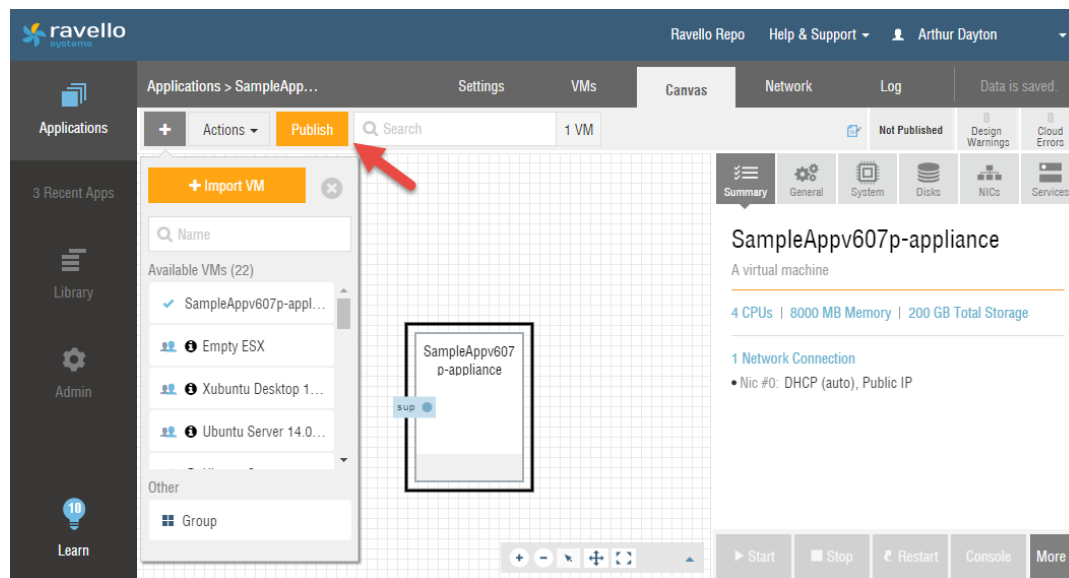
Create Application

Name:

Description:

Bucket:

From Blueprint: ☐ nginx-tomcat6-mysql



Publish Application

Content of application: SampleAppDemo

1 VMs 4 CPUs 7.81GB Memory 200GB Disk Space 1 Public IP Addresses

Optimize for **Cost** Performance

Cloud Best Fit Region Best Fit

Schedule application to stop in: **02:00hr**

Advanced ▸

Detailed Pricing ▾ [View price list](#)

Application Tier	ADVANCED
Computing (minimum price). This is the lowest price available	\$0.30/hr
Volume Storage	\$0.0677/hr
Public IP Addresses	\$0.01/hr
Network, based on usage	\$0.15/GB
Total Price	\$0.3777/hr



Start VM

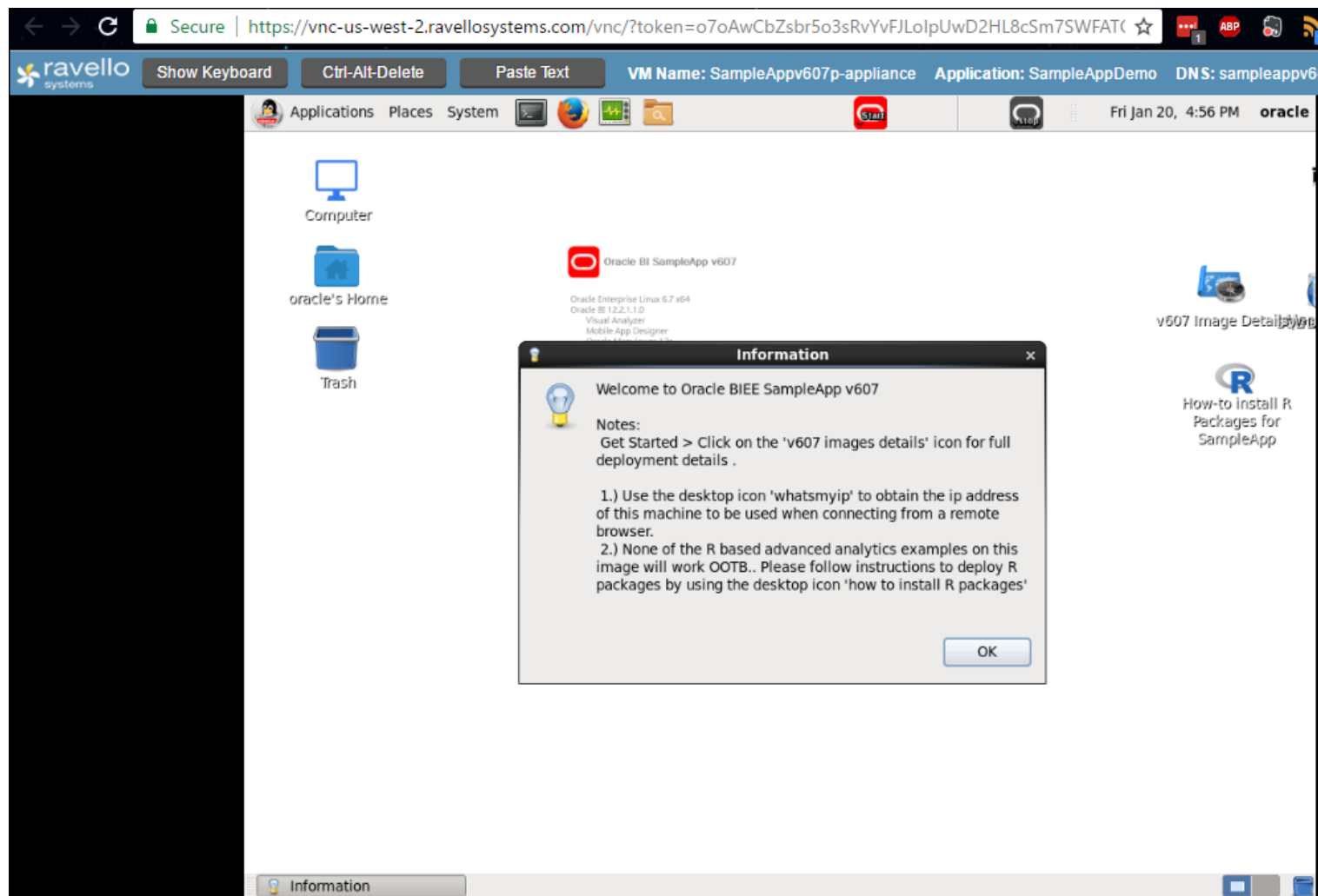
The screenshot shows the Ravello Systems interface. On the left, there's a sidebar with 'Applications', 'Library', 'Admin', and 'Learn'. The main area displays the 'SampleAppv607p-appliance' VM. The status bar at the top indicates 'Published in: US Central 1', 'Next Stop: 01:59hr', 'Design Warnings', and 'Cloud Errors'. The VM details show '4 CPUs | 8000 MB Memory | 200 GB Total Storage'. A red arrow points to the 'VM is Starting' status box, which also displays DNS and Port information.

This screenshot shows the 'SampleAppv607p-appliance' VM in the 'Started' state. The status bar at the top indicates 'Published in: US Central 1', 'Next Stop: 01:51hr', 'Design Warnings', and 'Cloud Errors'. The VM details show '4 CPUs | 8000 MB Memory | 200 GB Total Storage'. A red arrow points to the 'VM is Started' status box, which displays DNS: 'sampleappv607pappl-sampleappdemo-v3...', IP: '104.198.224.9', and Ports: 'ALL (sup)'.

The screenshot shows the 'Admin > Billing & Budget > BIWA 2017' page. The 'Applications' tab is selected, showing a list of applications. The list includes 'SampleAppDemo' and 'test'. The 'test' application is highlighted. The page also shows a 'Create Bucket' button and a search bar.



Access Console





Does this solve my problems?

It depends



How does Oracle Cloud measure up?

It depends



What does it mean for the future?

- “Painless” Cloud portability may be a while yet
- Cloud infrastructure is moving towards utility at different paces for different use cases
- What Cloud(s) will depend on what applications
- Infrastructure spending can be a lot like self-insurance



Discussion

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