



Pilot Your OBIEE 12c Cloud Migration on Virtual Box

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WWW.NEOOUG.ORG/GLOC

Speaker Bio

- Mark Whitlock is a Certified Oracle 8i Database Administrator, Oracle Business Intelligence Applications for ERP 7 Certified Implementation Specialist, Oracle ERP Project Manager for Department of Defense
- Currently a Senior BI Architect for Aleris International Inc. in Beachwood, OH a leading Aluminum manufacturer of Rolled Aluminum Products.
- Mark has been working with Oracle products for 24 years, Oracle Business Intelligence technologies for the past 13 years as a Developer, Administrator or Architect and working with OBIEE starting with version 10.1.3. He has been involved in four OBIEE custom and three OBI Applications implementations.
- Speaker at Northeast Ohio Users Group, Northern Ohio Oracle Applications User Group, Collaborate 11 and Great Lakes User conferences.
- Mark received his Bachelor's Degree from Kent State University in Business and Technology and MBA from Jones International University with a specialization in IT Management.

Agenda

- Case study Aleris International piloted its migration from OBIEE 11.1.1.7 to 12.2.1.1 using:
 - Laptop
 - Virtual Box
 - Sample applications for OBIEE.
- Put on hold by the IT Infrastructure team
 - upgrade from 11g to 12c
 - project timeline slip
 - creative way to plan, design, and test and debug
 - opportunity to port some of the environments to the cloud materialized
- Become familiar with the new directory structures and utilize the new Migration and Baseline Validation tools

Objectives

- Learn how to install Oracle Virtual Box
- Set up Virtual networking connections to your organization's data sources.
- Download and import Oracle Virtual Box Images
- Discover how to Navigate Sample Applications for Oracle Business Intelligence
- Utilize the Migration and Baseline Validation tools

Agenda

- Install Virtual Box
- Install Sample Apps
- Setup your OBIEE Instance
- Migration Tool
- Baseline Validation tool
- Consider Cloud options
- Port to Cloud

Agenda

- Use your laptop or PC to pilot the entire migration using Virtual Box and Sample Applications
- In no time you will be up and running
- Using migration and baseline validation tools
- Connecting to your real data
- Verifying dashboards
- Running reports in 12c and
- Preparing to migrate your RPD and Webcat to the cloud.

Licensing

- Virtual Box
- You may download, store, display on your computer, view, listen to, play and print Materials that Oracle publishes or broadcasts on the Site or makes available for download through the Site subject to the following: (a) the Materials may be used solely for your personal, informational, noncommercial purposes; (b) the Materials may not be modified or altered in any way; and (c) the Materials may not be redistributed.
- Sample Apps
- <http://www.oracle.com/technetwork/licenses/obiee-sampleapp-license-2029753.html>
- **License Rights**

Subject to the terms of this Agreement and the Programs documentation, we grant you a nonexclusive, nontransferable limited License to use, copy, and modify the Programs solely for the purposes of internally developing, testing, prototyping and demonstrating your applications, and running the Programs for your own internal business operations. We may audit your use of the Programs. If available, Programs documentation is either delivered with the Programs or may be accessed online at <http://www.oracle.com/technetwork/indexes/documentation/index.html>.

Install Virtual Box

- Find out what your system capabilities are on your laptop.
- 12 GB RAM would be best.
- VM needs about 6 GB ram,
- Very large hard drive , 400 GB free space, 1 TB, run multiple images
- Virtual Box website , download software, system specific
- Oracle owns Virtual Box , no personal support, only enterprise Virtual Box Support
- Personal support Virtual Box community, very good

Install Virtual Box



The screenshot shows a web browser window displaying the VirtualBox website. The address bar shows the URL <http://www.virtualbox.org/wiki/Downloads>. The page features the VirtualBox logo on the left and a navigation menu with links for About, Screenshots, Downloads, Documentation, End-user docs, Technical docs, Contribute, and Community. The main content area is titled "Download VirtualBox" and contains the following text:

Here, you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

- **VirtualBox platform packages.** The binaries are released under the terms of the GPL version 2.
 - [VirtualBox 5.1.8 for Windows hosts](#) (x86/amd64)
 - [VirtualBox 5.1.8 for OS X hosts](#) (amd64)
 - [VirtualBox 5.1.8 for Linux hosts](#)
 - [VirtualBox 5.1.8 for Solaris hosts](#) (amd64)
- **VirtualBox 5.1.8 Oracle VM VirtualBox Extension Pack** (All supported platforms)
Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP and PXE boot for Intel cards. See this chapter from the User Manual for an introduction to this Extension Pack. The Extension Pack binaries are released under the [VirtualBox Personal Use and Evaluation License \(PUEL\)](#).
Please install the extension pack with the same version as your installed version of VirtualBox:
If you are using [VirtualBox 5.0.26](#), please download the extension pack [here](#).
- **VirtualBox 5.1.8 Software Developer Kit (SDK)** (All platforms)

See the [changelog](#) for what has changed.

You might want to compare the [SHA256](#) checksums or the [MD5](#) checksums to verify the integrity of downloaded packages. The [SHA256](#) checksums should be favored as the [MD5](#) algorithm must be treated as insecure!

Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well.

Install Virtual Box



The screenshot shows a web browser window with the Oracle VM VirtualBox website. The browser's address bar displays <https://www.virtualbox.org>. The page features the VirtualBox logo on the left, a large "VirtualBox" title in the center, and a "Welcome to VirtualBox.org!" heading. Below the heading is a paragraph of introductory text. On the left side, there are navigation links for "About", "Screenshots", "Downloads", and "Documentation". On the right side, there is a "News Flash" section with a red "New" tag and a date of "July 21st, 2016", announcing the release of "VirtualBox 5.1.2".

AL AL Home x Oracle VM VirtualBox x +

<https://www.virtualbox.org> Google

Most Visited Getting Started



VirtualBox

search Login Prefer

Welcome to VirtualBox.org!

VirtualBox is a powerful x86 and AMD64/Intel64 [virtualization](#) product for enterprise as well as home use. Not only is VirtualBox an extremely feature rich, high performance product for enterprise customers, it is also the only professional solution that is freely available as Open Source Software under the terms of the GNU General Public License (GPL) version 2. See "[About VirtualBox](#)" for an introduction.

News Flash

- New July 21st, 2016**
VirtualBox 5.1.2 released!
Oracle today released a 5.1 maintenance release which improves stability and fixes regressions. See the [Channellog](#) for

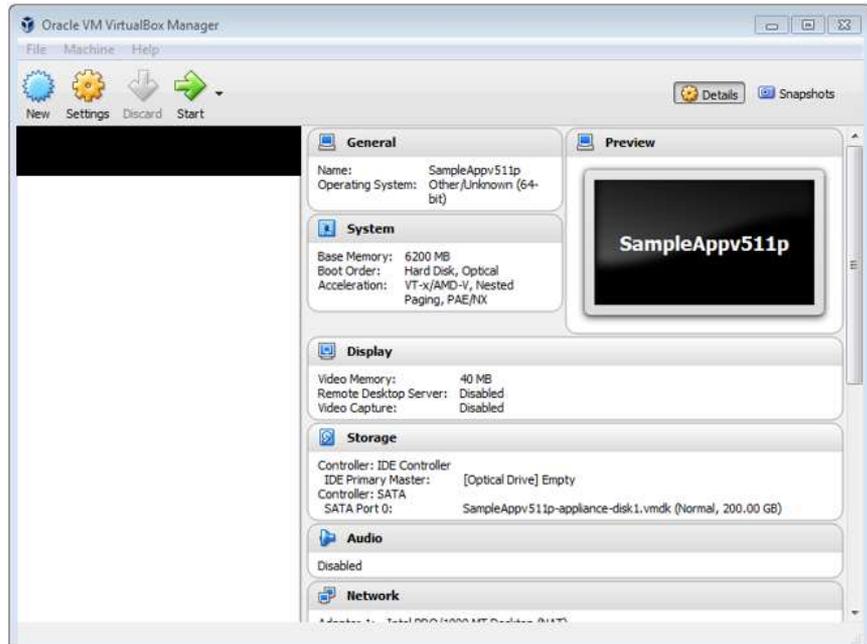
Install Virtual Box

- Download the file and install it on your system
- Just click run program to install
- After it is finished you will have a Virtual Box on your system and an icon on your desktop
- Make sure to choose the path to the external drive if you are using one , otherwise you will have to move the files later, when you run out of space on your hard drive , (and you will!!!)

Install Virtual Box



Install Virtual Box



Install Sample Apps v511

- Next get the images for 12c VM Sample App v 511
- I prefer the v511 over v607 because more control over back end object like Weblogic:
- <http://www.oracle.com/technetwork/middleware/bi-foundation/obiee-samples-167534.html>

Install Sample Apps v511

Oracle BI Tech Demos YouTube Channel | Step by Step demo on n

File
SampleApp v511 Image Download
SampleAppv511p-appliance.zip.001
SampleAppv511p-appliance.zip.002
SampleAppv511p-appliance.zip.003
SampleAppv511p-appliance.zip.004
Checksums (MD5)

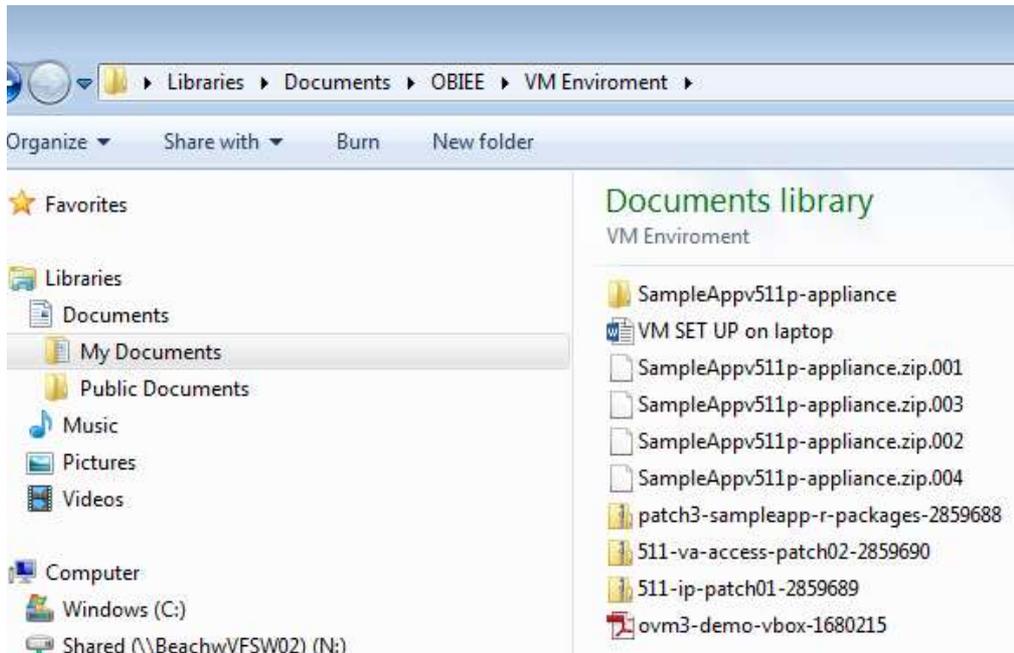
Install Sample Apps v511

SampleApp v511 Patches	Mandatory Patches to be applied to your SampleAppv511 image
 v511 Visual_Analyzer Access Patch	For all users- resolves access issue when connecting to Visual Analyzer from a remote browser or Mobile HD application.
 v511 SampleApp 'R' deployment patch	This patch resolves a issue when installing necessary R packages.
 v511 VirtualBox Networking Patch	For all users- resolves inconsistent networking behavior from within the v511 release.

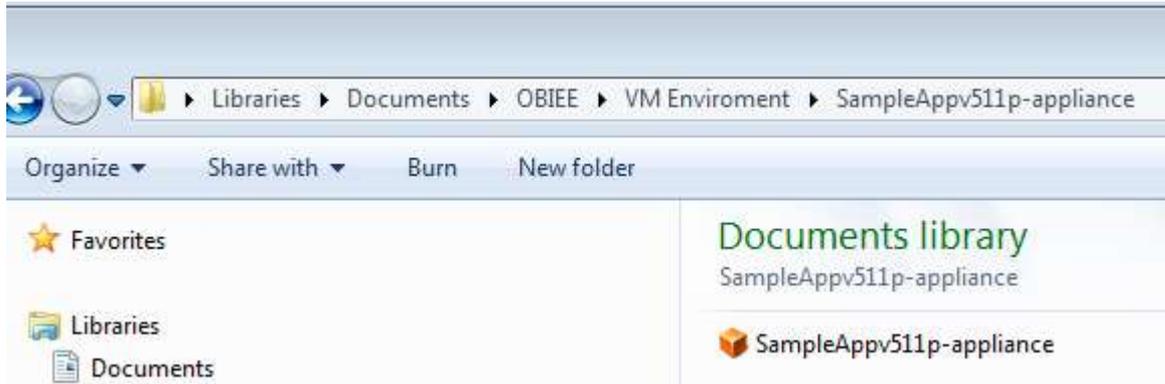
Install Sample Apps v511

- Copy the files to a directory on your PC (make sure you have lots of hard drive space)
- Unzip the first SampleAppv511-appliance files
- Will create the SampleAppv511-appliance folder
- One file called SampleAppv511-appliance.oca

Install Sample Apps v511



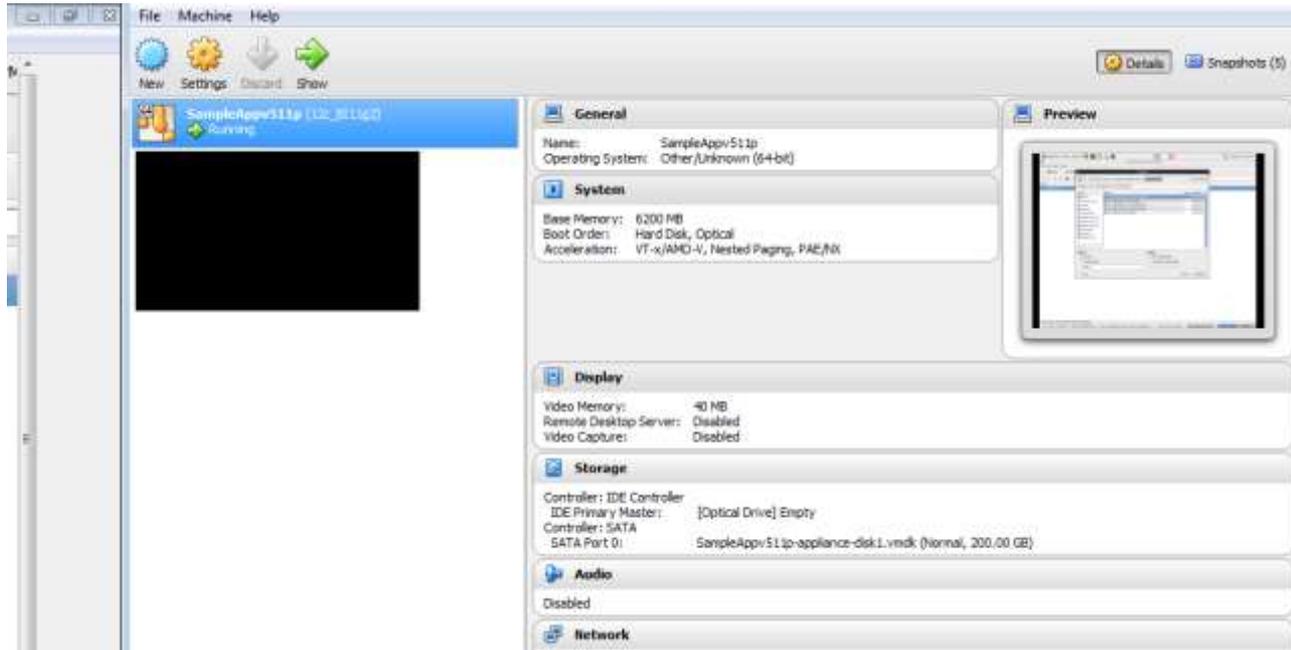
Install Sample Apps v511



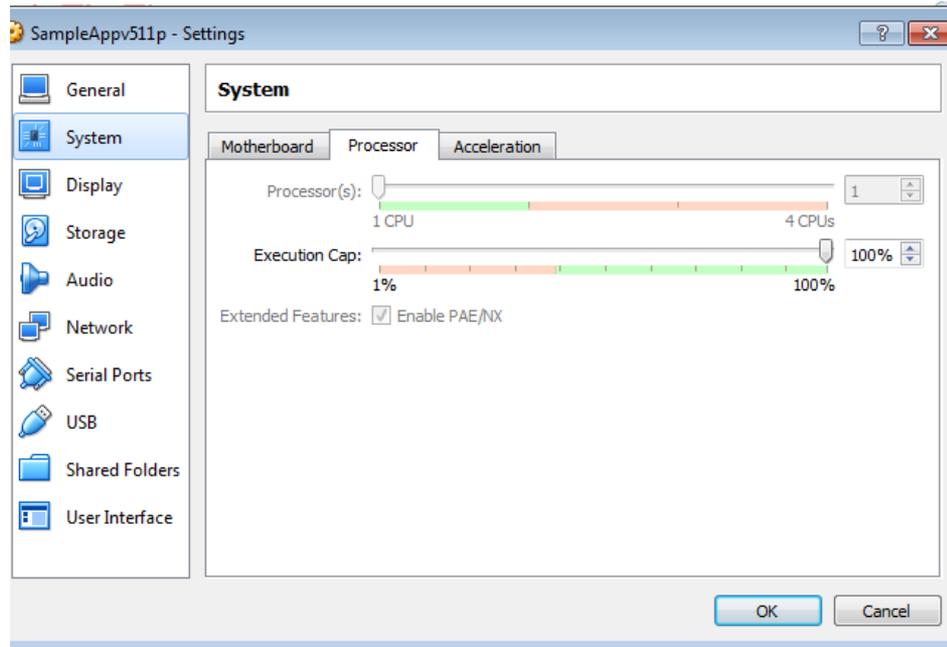
Install Sample Apps v511

- Unzip the other two patches
- Try to start virtual box
- And import the Sample App v 511 appliance image (ova)
- It will look like this:

Install Sample Apps v511



Install Sample Apps v511



Install Sample Apps v511

Oracle BIEE 12c SampleApp v511 virtual box networking IP-Patch01

About this FAQ

This faq will resolve inconsistent network behavior with SampleAppv511. After applying this patch a network adapter 'eth0' will be created that will be used in all type of networking scenarios, i.e , NAT, bridged. In addition a new logon 'splash screen' and desktop icon will be created with further details.

Resolution

Resolve inconsistent network behavior in the SampleAppv511 release
Total time to implement < than 1 minute

Use Case Scenarios:

- All users of SampleAppv511

Step 1: (perform this FAQ off a clean reboot)

Download the 511-IP-Patch01 to your SampleAppv511 image

- Extract to any location on your SampleAppv511 image
 - Right click on the 511-IP-Patch01.zip and choose extract here
- A folder called 511-IP-Patch01 will be created.
- Run apply_patch01.sh
 - Open a new terminal window and run ./apply_patch01.sh
- When prompted reboot the image

```
Terminal
File Edit View Search Terminal Help
fixing network adapter to eth0
patching sampleAppv511 IP config sequence
Adding WhatsMyIP util to desktop
patching done. It is strongly recommended to reboot the image now
reboot image (y/n) :
```

Step 2:

Once your reboot is completed a new desktop icon will be shown and you will have a network adapter of 'eth0'



Install Sample Apps v511

- This is how Sample Apps v511p looks when it boots successfully:

Install Sample Apps v511

The screenshot displays a virtual desktop environment titled "SampleApp511 (Running) - Oracle VM VirtualBox". The desktop features a taskbar with "Applications", "Places", and "System" menus, along with system icons and a clock showing "Mon Aug 8, 3:41 PM".

On the left side, there are icons for "Computer", "oracle's Home", "Trash", and "Firefox".

The central area contains the Oracle logo and the text "BIEE SampleApp v511". Below this, a list of installed components is shown:

- Oracle Enterprise Linux 6.3 x64
- Oracle Business Intelligence 12c
 - Mobile Application Designer
 - Oracle Mapviewer 12c
 - MYDemo Samples
 - Sample Application Content
- Oracle Database 12c 12.1.0.2.1 (multib)
 - R 3.1.1 ORE 1.4.1
 - Oracle Apex 4.2.6
 - SQL Developer 4.2.0
 - AWM 11.1.0.28
 - Oracle Data Mining
 - Oracle Spatial and Graph
- BigData (plug-in) non-oracle employees contact local oracle sales rep for details
 - CDM 5.1.2 w/Cloudera Manager
 - Oracle Bigdata SQL
 - Oracle BigData Connectors
- EPM 11.1.2.4 Standalone (plug-in) download from OTN

At the bottom, a note reads: "ATTENTION: Images obtained from OTN see the deployment guide for important information regarding external R packages for R/ORE and BI AA examples".

On the right side, there are icons for "Utilities and Scripts", "SQL Developer", "Catalog Manager", "Map Builder", and "Workshops". A "START HERE: V511 Image Details" link is also present.

Install Sample Apps v511

- Start up the database and WebLogic server
- “start db and bi1”:

Install Sample Apps v511

The screenshot shows a web browser window within an Oracle VM VirtualBox environment. The browser's address bar displays the URL `demo.us.oracle.com:7780/analytics/saw.dll?Logoff`. The page content includes the Oracle Business Intelligence logo and a navigation menu with the following items: `1.Start Database`, `2.Start bi1`, `start db & bi1`, and `Start Cloudera`. A red square highlights the `Start` button, and a context menu is open over it, listing the same four options. The browser's address bar also shows several tabs, including `OBIEE Samples` and `Oracle Business Intellige...`. The browser's toolbar includes a search icon, a 'Most Visited' dropdown, and several bookmarked sites like `OTN SampleApp` and `YouTube- BI TECHD...`.

Install Sample Apps v511

- *Note - You will use the Red Arrow to shut it down (stop “database and bi1”)
- The BI instance should be up
- Use the Weblogic browser to go to the OBIEE 12c login, which should be bookmarked in favorites:

Install Sample Apps v511

- Choose “1. BI 12c Sample BI App”
- The choose “12c BI Login”
- Login with “prodney” and “Admin123”
- (These should auto fill for you):

Install Sample Apps v511

The screenshot shows a virtual machine window titled "SampleAppv511p (Snapshot 2 After AD setup) [Running] - Oracle VM VirtualBox". The window contains a Mozilla Firefox browser displaying the Oracle Business Intelligence Sign In page. The browser's address bar shows the URL "demo.us.oracle.com:7780/analytics/saw.dll?biehome&startPage=1". The page features the Oracle Business Intelligence logo and a sign-in form with fields for "User ID" and "Password", a "Sign In" button, and an "Accessibility Mode" checkbox.

SampleAppv511p (Snapshot 2 After AD setup) [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places System

Oracle Business Intelligence Sign In - Mozilla Firefox

SampleApp x Oracle Business Intellige... x

demo.us.oracle.com:7780/analytics/saw.dll?biehome&startPage=1

Most Visited | OTN SampleApp | YouTube- BI TECHD... | SampleApp 12c star...

ORACLE Business Intelligence

Sign In
Enter your user id and password.

User ID

Password

Accessibility Mode

Install Sample Apps v511

SampleAppv511p [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places System

Oracle BI Answers - Mozilla Firefox

http://www...7534.html x OBIEE Samples x Oracle BI Answers x

demo.us.oracle.com:7780/analytics/saw.dll?Answers&SubjectArea="A - Sample Sales"#resultsTab1566bd86

ORACLE Business Intelligence Search All Advanced

Mark VM 12c Test Custom Link SampleApp V511 Index Home Catalog Favorites Dash

Criteria Results Prompts Advanced

Subject Areas

- A - Sample Sales
 - Time
 - Products
 - Offices
 - Sales Person
 - Customers
 - Orders
 - Other Objects
 - Facts

Compound Layout

Title Mark VM 12c Test

Table

T05 Per Name Year	P15 Total	1- Revenue
2010	Total	23,500,000
2011	Total	23,000,000
2012	Total	23,500,000

Add to Briefing Book

Install Sample Apps v511

- Bookmarks to manage the Server in the Mozilla Browser in the Image.
- (This is part of why this version is easier for administrative tasks)
- These bookmarks will take you to the:
- Oracle WebLogic Server Administration Console
- Oracle Enterprise Manager
- Visual Analyser
- Apex
- Etc...

Install Sample Apps v511

Sign In
Enter your user id and password.
User ID

- BI 12c logon
- Oracle WebLogic Server Administration Console
- Oracle Enterprise Manager
- Visual Analyzer
- BI Search Crawl Config

Open All in Tabs

- View Bookmarks Sidebar
- Show All Bookmarks Ctrl+Shift+O
- View Pocket List
- Subscribe to This Page...
- Bookmarks Toolbar
- Unsorted Bookmarks
- Recently Bookmarked
- Recent Tags
- 1. BI 12c SampleApp
- 2. Mapviewer
- 3. Database Enterprise Manager
- 4. Oracle Apex
- 5. BIMAD
- 6. Essbase
- 7. Cloudera Manager
- OEL 6 Information
- 8. EPM 11.1.2.4 Standalone
- 9. BI instance2 SampleApp Lite
- Show All Bookmarks Ctrl+Shift+O

OBIEE SampleApp V511. Use Prodneey/Admin123 to log in. List of all av users are included in the "Configuration" dashboard.

This text was added by editing logonmessages.xml under /bi/bifoundat /web/msgdb/i_en/messages folder and signin.html under /bi/bifoundat /web/msgdb/pages/common folder.

Install Sample Apps v511

- Oracle VM Virtual Box Manger Description
- Shows the list of installed applications on this system:

Install Sample Apps v511



Description

SampleAppv511 12c GA

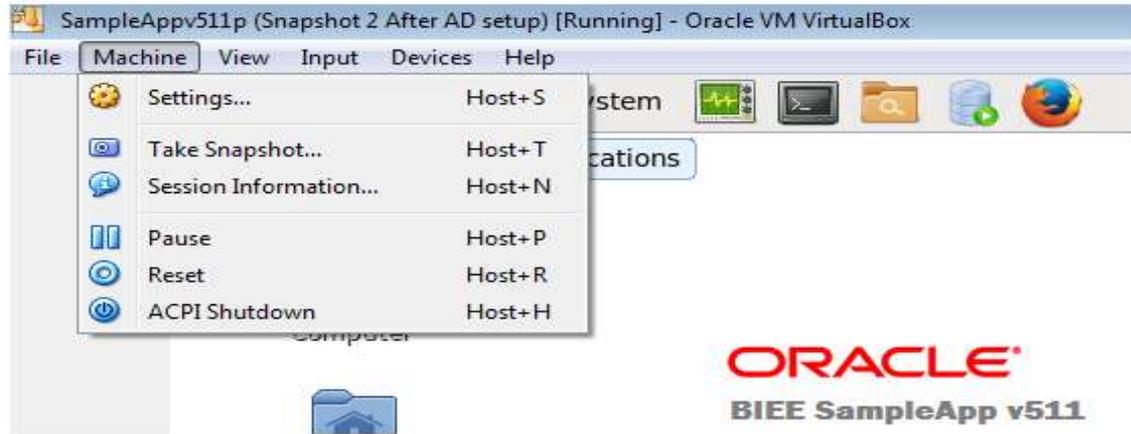
- OBI 12c
- Visual Analyzer
- MAD
- MapViewer 12c
- Sample Applications Content
- Essbase 11.1.2.4
- Oracle Database 12.2.0.2 (imdb)
- Oracle Apex 4.2.6
- SQL Developer 4.1.0
- AWM 12.1.0.2a
- Oracle Data Mining
- Oracle Spatial and Graph
- Oracle R 3.1.1/ ORE 1.4.1
- BigData (plugin)
- CDH 5.1.2 w/cloudera manager
- Oracle Bigdata SQL
- Oracle BigData connectors
- EPM 11.1.2.4 Standalone (plugin)

Install Sample Apps v511

- How to transfer files back and forth to the VM
- Mount the shared drive commands:
- Mount -t vboxsf [-o OPTIONS] sharename mountpoint
- My laptop:
- `sudo mount -t vboxsf documents /app/Markshare`
- (I created a directory “Markshare” in the “app” directory)
- * hint* don't use caps in LINUX

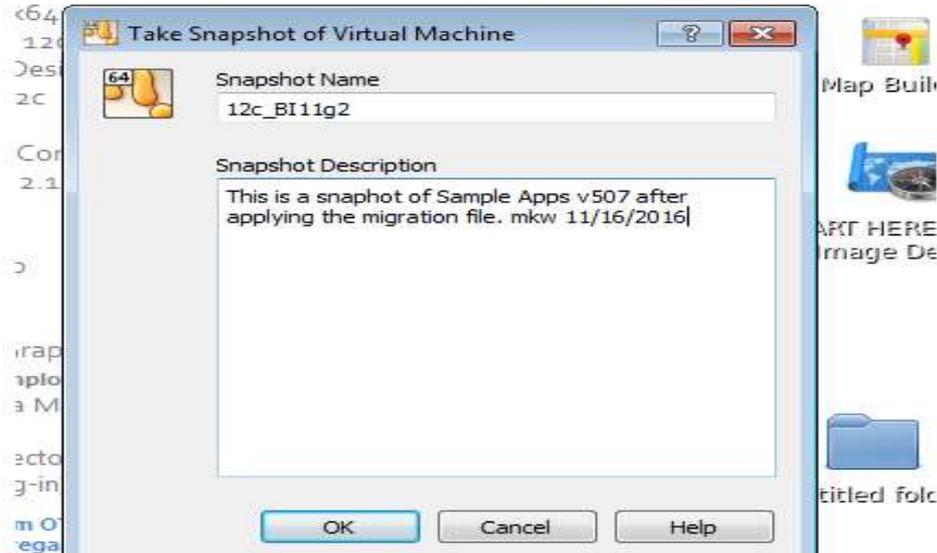
Install Sample Apps v511

Next get a snapshot of the instance so you can roll back to it if necessary:



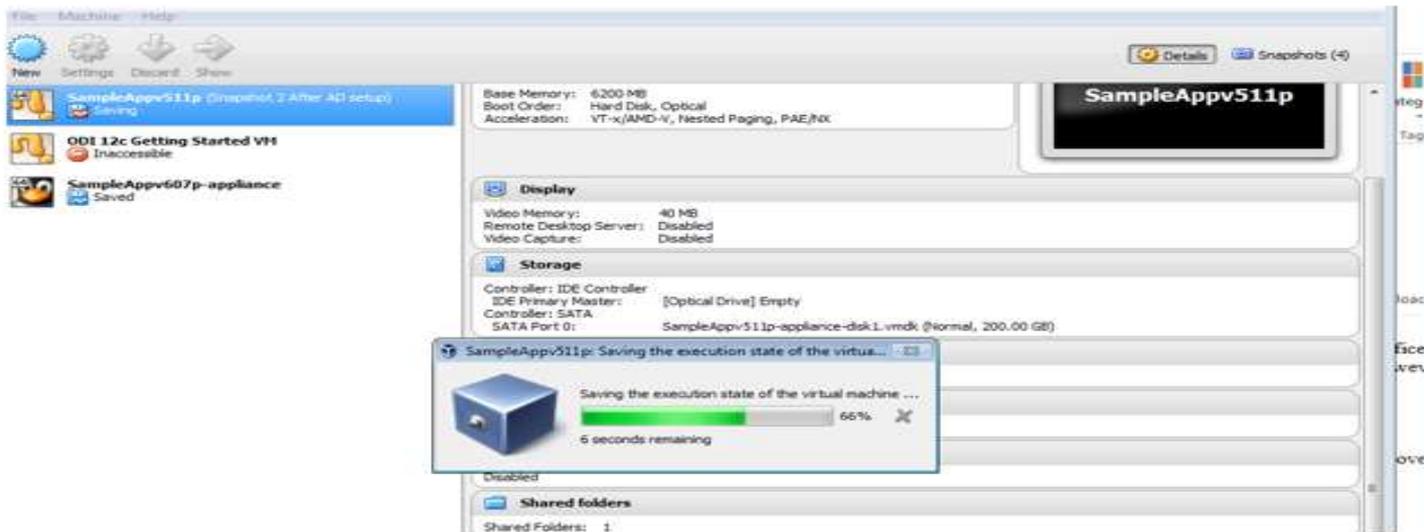
Install Sample Apps v511

Choose "Take a Snapshot" Give it a descriptive name and description, say OK.



Install Sample Apps v511

Close the VM and save the state, this way the database a BI will be up next time you access it:



Migration from OBIEE 11g to 12c

Here is the Oracle Fusion Migration guide from OBIEE 11g to 12c:

<https://docs.oracle.com/middleware/1221/core/BIMIG/toc.htm>

Oracle® Fusion Middleware

Migration Guide for Oracle Business Intelligence

12c (12.2.1.1)

E74567-01

Note: The BI Migration Tool does not preserve any customized features of the 11g system. You must manually copy the customized features of 11g system to the 12c system post migration.

Migration from OBIEE 11g to 12c

- Make sure you have done a full catalog upgrade of your 11g instance to 11.1.1.7 especially if you have upgraded from previous version, otherwise the migration will fail
- Once you have 12c installed you need to create the bi-migration-tool.jar package by execution the following script found on the bi server you did the install on

Migration from OBIEE 11g to 12c

- The Migration is exactly the same as if you are doing a server migration , so we will not discuss it here, the paper has detailed steps
- Once it is complete your 11g environment will be in your 12c Sample Application Virtual Box and will connect to your source and target just like your PC

Migration from OBIEE 11g to 12c



Migration from OBIEE 11g to 12c

Next set up an alternate provider (like Active Directory) if you are not using Default Authentication.

Next complete any post migration steps you may need to do, here are some possible things you might need to do depending on your system:

- 3 Post Migration Steps for Oracle BI EE
 - 3.1 Migrating Catalog Groups
 - 3.2 Migrating Configuration of Oracle BI EE
 - 3.3 Configuring the Database to Use DataDirect Drivers
 - 3.4 Configuring Usage Tracking
 - 3.5 Configuring the SQL Server
 - 3.6 Adding Roles and Permissions
 - 3.7 Configuring MySQL for Oracle BI
 - 3.8 Checking the BI JavaHost Configuration
 - 3.9 Enabling Clusters
 - 3.10 Enabling Oracle Hardware Acceleration and Compatibility Mode
 - 3.11 Setting Compatibility Framework for Oracle BI Server
 - 3.12 Migrating the Fusion Middleware MapViewer Configuration
 - 3.13 Unchecking "Required for Authentication" Option in DYNAMIC_OLAP_LOGIN Initialization Block

Base Line Authentication tool

Here is the document for using the Baseline Validation Tool:

Oracle® Business Intelligence

Comparing Oracle Business Intelligence Deployments Using the Oracle Business Intelligence Baseline Validation Tool

Release 12c

E55769-04

June 2016

Base Line Authentication tool

- The Baseline Authentication tool is implemented exactly the same way as you would on a BI Server, so we will not discuss the specifics here
- Detail information is covered in the paper
- Next are what the reports should look like

Base Line Authentication tool

ORACLE

BUSINESS INTELLIGENCE

REPORT BASELINE VERIFICATION SUMMARY

SUMMARY PIVOT	SUMMARY DATA
Name	ExportReportsToCSV
Run start time	2015-10-05-10.52.58
Run end time	2015-10-05-10.52.58

BASELINE VERIFICATION PIVOT	BASELINE VERIFICATION DATA
Totalcount	47
Fail Count	14
Pass Count	33
Missing Count	0
New Item Count	0
Unprocessed Item Count	0
Failed to Download Report Count	0

BASELINE VERIFICATION PIVOT	BASELINE VERIFICATION DATA
Deployment Name	Src_ReportPlugin
Server Name	http://10.244.39.15:7780/analytics
Deployment Name	Tgt_ReportPlugin
Server Name	http://10.128.7.233:7780/analytics

Base Line Authentication tool

REPORT BASELINE VERIFICATION DETAILS

REPORT BASELINE VERIFICATION FAILURES

NAME	FIRST SERVER LINK	SECOND SERVER LINK	RESULT	FIRST DEPLOYMENT	SECOND DEPLOYMENT
Dashboard BID Printing	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Trellis Actions 1	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Global Variables	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Save Columns and Global Variables	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Treemap	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Customers Details	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Customers Profile	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Geo Prompts	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Brand Cost and Unit Price	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Trend	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Trellis4	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Order Details	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Trellis1	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Revenue Demographics	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK
Target Completion	SERVER LINK	SERVER LINK	Fail	FILE LINK	FILE LINK

REPORT NOT FOUND

NAME FIRST SERVER LINK SECOND SERVER LINK RESULT FIRST DEPLOYMENT SECOND DEPLOYMENT

REPORTS FAILED TO DOWNLOAD

NAME FIRST SERVER LINK SECOND SERVER LINK RESULT FIRST DEPLOYMENT SECOND DEPLOYMENT

UNPROCESSED REPORTS

NAME FIRST SERVER LINK SECOND SERVER LINK RESULT FIRST DEPLOYMENT SECOND DEPLOYMENT

NEW REPORT FOUND

NAME FIRST SERVER LINK SECOND SERVER LINK RESULT FIRST DEPLOYMENT SECOND DEPLOYMENT

Base Line Authentication tool

NEW REPORT FOUND

NAME FIRST SERVER LINK SECOND SERVER LINK RESULT FIRST DEPLOYMENT SECOND DEPLOYMENT

REPORT BASELINE VERIFICATION PASSED

NAME	FIRST SERVER LINK	SECOND SERVER LINK	RESULT	FIRST DEPLOYMENT	SECOND DEPLOYMENT
Orders and Density By Customers	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Orders and Density By Employee	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Orders and Density By LOBs	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Orders and Density By Year	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
100% Stacked Bar Chart	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
IntervalDataType	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Line Geometries Thickness	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Maps As Detail in MD	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Navigation From Totals	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Simple Example	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Simple Table	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
SimpleBarChart	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Table with Sliders	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Trellis Actions 2	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Waterfall Bridge Report	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
New Visuals	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Contribution Waterfall Gauges	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Average Sales Price	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Product Order Trend	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Quarterly Budget Status	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Street Level Map	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
History Overview	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Monthly Revenue Trend	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
New Monthly Revenue Trend	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Performance Indicators	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Converted Revenue	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Custom Group	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Daily Revenue Timelapse	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Revenue Breakup	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Target Completion Chart	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Trellis3	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK
Build_306p	SERVER LINK	SERVER LINK	Pass	FILE LINK	FILE LINK

Congratulations

- You have now completed your 11g to 12c migration
- Now onto the Cloud
- But how to start and which way to go?

Cloud

- First get some information on the two types of cloud services.
- Oracle's initial offering Business Intelligence Cloud Service. (BICS)
- Oracle newest offering is Oracle Application Cloud service (OAC).
- Although it may still be possible to subscribe to BICS most organization are focusing on OAC.

Cloud

The first place to start learning about Oracle Cloud services is from Oracle, usually your sales representative, Oracle Education .user groups, conferences Analytics and Data Summit, Oracle Education



ORACLE UNIVERSITY
Oracle Cloud Learning Subscriptions - Complete & End-User Editions
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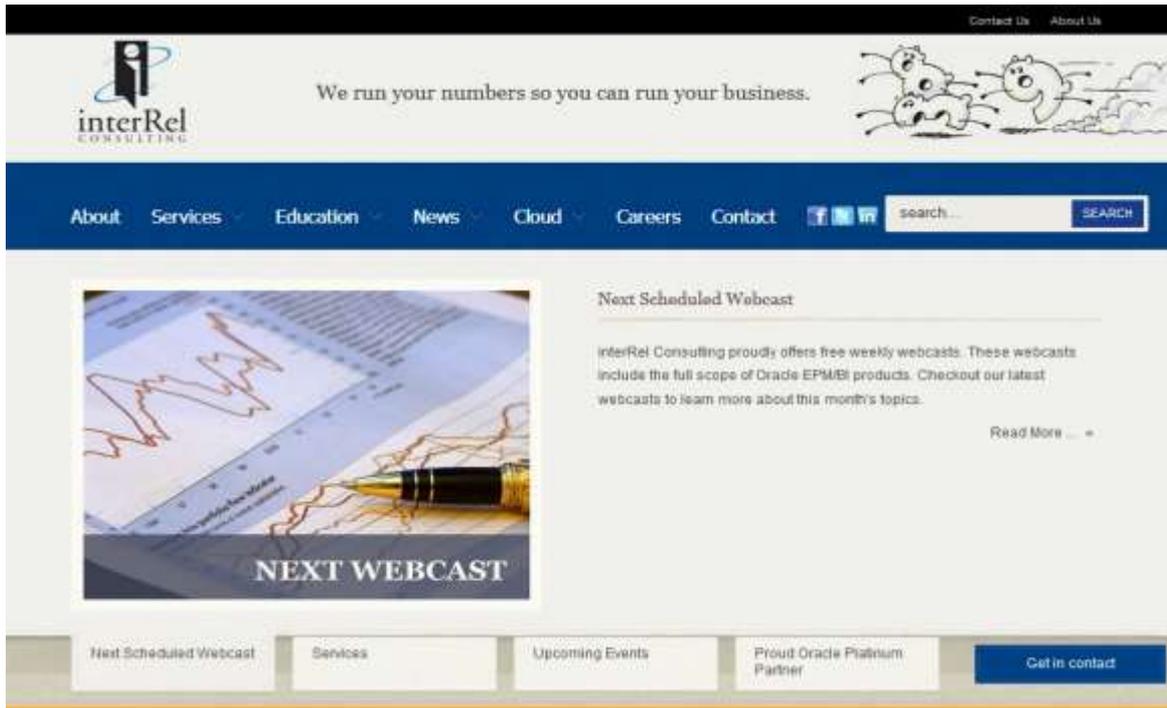
Resource Library

E-Books Infographics Solution Briefs Videos Webcasts White Papers

Cloud

- A great resource aside from Oracle to learn more about OAC is from a company called InterRel.
- They have published a book called “Look Smarter than you are with Oracle Analytics Cloud Standard”
- The book, based loosely on a using a popular movie, called the “The Business Analytics Martian” describes your journey to the cloud. It takes you through the preparation of the OAC and service configuration process, although much of the book speaks about Essbase, the latter chapters describe BI and Data Visualization (DV).
- InterRel also offers webinars and consulting services

Cloud www.interrel.com



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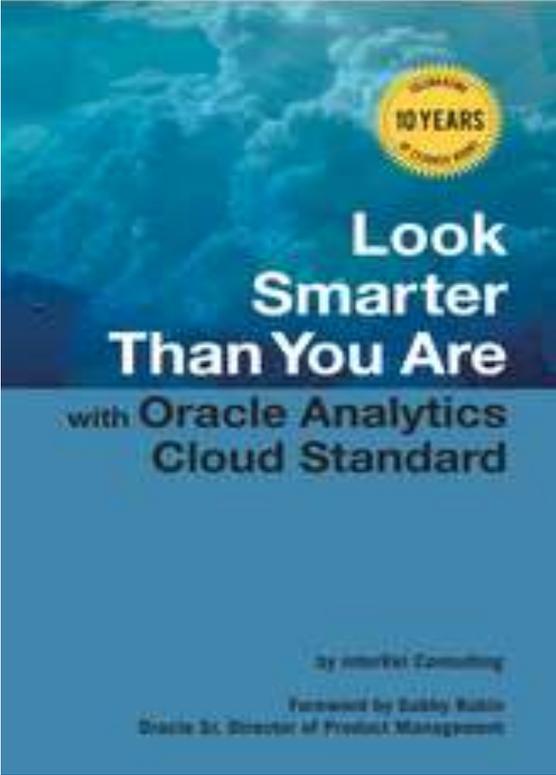
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Cloud



Cloud

- There are plenty of other good Oracle partners out there and most of them are represented here at the conference but this book seemed to resonate with me and demystify some the cloud mystery.

- So after reviewing BICS and OAC which one did we choose?

Cloud

- As often in life, it happened the other way around it was chosen for us
- Our on premise 12c OBIEE environment unable to recover
- Create a .bar file from the Virtual Box
- Migrate it to the OAC .
- OAC environment established and bar file imported, you just need to make a connection to your on premise database.

Cloud

- How did everything turn out?
- That will be answered in my next paper:

**“OBIEE ADMINISTRATORS,
DON’T FEAR THE CLOUD”**

Key Takeaways

- You have all the resources to do a 12c Migration right at you fingertips
- Virtual Box make prototyping easy
- You can connect to your data sources
- All tools and utilities work the same as on BI Servers
- There is plenty of help out there, just reach out
- Do not fear the Cloud

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Questions & Answers