

# Lift and Shift PeopleSoft HCM using PeopleSoft Cloud Manager with Ease

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PeopleSoft

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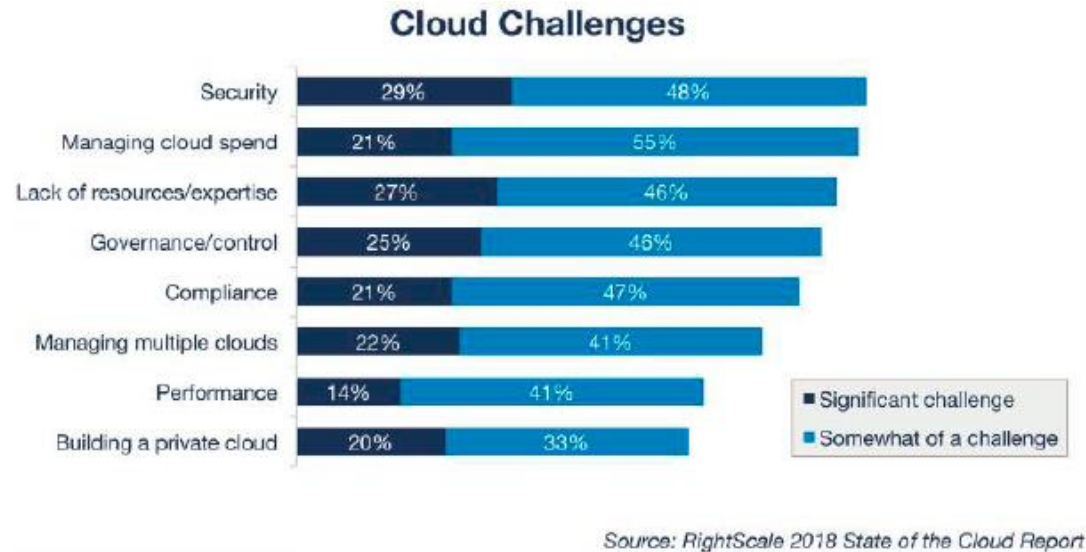
# Customer Background

- **Aon Risk Services** – Global Financial Services Company
- 2800+ Employees in Australia, New Zealand Payroll, over 77,000 globally
- Presence of IT – Providing Managed Support Services and trusted advisory
- Peoplesoft On Premise over 12 years
- Lift and Shifted to private cloud in 2013, along with upgrade from 8.9 to 9.2
- Evaluating migration to public cloud infrastructure

# Key Drivers for this exercise

- Major Payroll Legislative change from Australian Taxation Office
- Presence of IT partnering with Oracle in development and testing of PeopleSoft Global Payroll updates to support this legislative change
- AON chosen as early adopter for this program
- Need for quick provisioning of project test environment
- With no long term infrastructure cost commitments
- Chose Oracle Cloud Infrastructure to run the PeopleSoft environment to support this project

# Why PeopleSoft Cloud Manager?

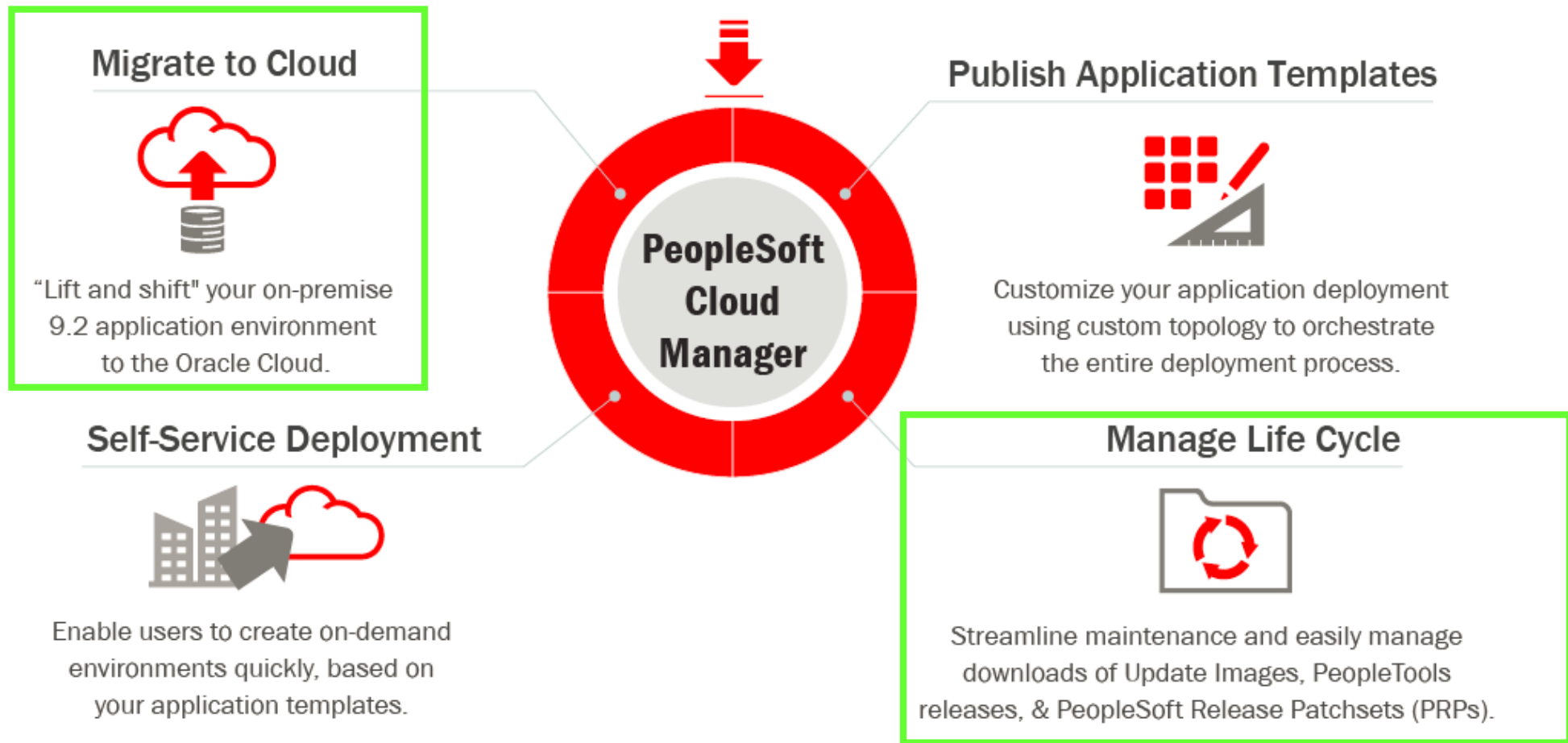


PeopleSoft Cloud Manager is free of cost orchestration framework for managing PeopleSoft environments on Oracle Cloud.

The orchestration is an essential part of cloud computing and without orchestration, many of the benefits and characteristics of cloud computing cannot be achieved.

Decision to use PeopleSoft Cloud Manager for Lift and Shift to Oracle Cloud

# PeopleSoft Cloud Manager



# PeopleSoft Architecture

- Application – HCM 9.2 Image 19
- PeopleTools – 8.55.07
- OS – RHEL 6.2
- Database – Oracle 12c (Non-Unicode, non-RAC and non-TDE)
- Logical three-tier PeopleSoft architecture (~15 GB)
- Database residing on same server (~35 GB in size)

# Cloud Manager (Image 5) – Lift and Shift Prerequisites

- Supported Oracle versions are 11g and 12c
- The minimum PeopleTools version should be PeopleTools 8.55.12.
- The Minimum PeopleSoft applications version should be PeopleSoft 9.2
- Lift and Shift is supported only on Linux environments
- Lift of non-Unicode Database is not supported for this release
- Lift of RAC Database is not supported for this release. Shift to RAC is supported.
- Lift of TDE enabled Database is not supported for this release.
- Lift should be performed on a Linux system with Python 2.7.9 set as default for Python

# Lift and Shift Exercise

Using PeopleSoft Cloud Manager



# Step 1 - Preparing for Lift

- Oracle Database Unicode conversion
  - 2 Options were considered – PeopleSoft Data Mover (or) Database Migration Assistant (DMU)
  - Based on research, opted for Database Migration Assistant
    - Free utility that provides in-place conversion
    - Minimal training/preparation, overall conversion time was couple of hours
- PeopleTools Patching
  - Minimum requirement for Cloud Manager 5 was 8.55.12
  - Highly recommend going to the latest patch version available – PT8.55.20

# Step 2 - Install PeopleSoft Cloud Manager

- Setup Oracle Cloud Infrastructure (Classic) account
- Data Center in Sydney, Australia (Data Sovereignty)
- Deployed latest version of PeopleSoft Cloud Manager from Oracle Marketplace - CM 5\_02
- Installed File Server of 500 GB size

# Step 3 – Lift Source Instance

- Downloaded the lift utility from CM PIA to source
- Check space requirements (50G at least for each lift – App and DB)
- Ran the lift script and provided parameters for local lift and post to Cloud

## Issues and Resolutions

- Indenting issue in tnsnames.ora file caused the process to fail
  - Used NetCA to resolve
- Security issues – Resolved with granting full access to lift folders (for APP and DB)

# Step 4 - Shift lifted instance to Cloud

- Subscribed to channels in repository – PCM\_91, IH\_91, HCM\_92, Tools\_855. The updates amounted to around 112 GB
- Applied bug fixes to CM using Manage updates page in CM settings
- Modified Lift and Shift topology to increase disk space (Default is 75GB)
- Ran the shift process multiple times to provision the client environment on Cloud
- Shift happens mainly in two stages – provisioning of DB, PeopleSoft Client and Middle Tier and software deployment on each of these servers

# Step 4 - Shift lifted instance to Cloud

## Issues and Resolutions

- Zip file corrupt error during shift for both DB and Middle Tiers
  - Re-upload of zip files from on premise
- Software deployment failed on PeopleSoft Windows Client for PeopleSoft Cloud Manager
  - Completed Change Assistant installation manually
- Cloud manager up to date with latest PRPs is critical
- CM backup script failed - `cm_backup.sh` (Alternative – Storage Snapshot)

# Notable Findings

- Default L&S topology cannot be modified except for storage sizing
- No option to restart shift process from failure point
- Lift process naming is based on database name – limitation on same database for multiple environment

# Usage and Feedback

- Significantly better performance due to the superior version of hardware as well as the resources allocated to it in cloud
  - Payroll batch process 4 times faster in cloud compared
- Much faster and easier to access and apply legislative patches for payroll testing
  - PUM source configured in cloud as part of Cloud Manager setup
  - Subscription to release channels via Cloud Manager that automates download of updates when available

Cloud Manager - Image 6



# Cloud Manager Image 6 – Key Features

- Support for Oracle Cloud Infrastructure
- Support for TDE-enabled databases to OCI Classic
- Support for lifting non-Unicode database
  
- Lift and Shift using Cloud Manager 6 – Currently In-Progress

# Please complete a session evaluation

Session ID: 102400

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