

How to Move Your Oracle Database to "The Cloud"

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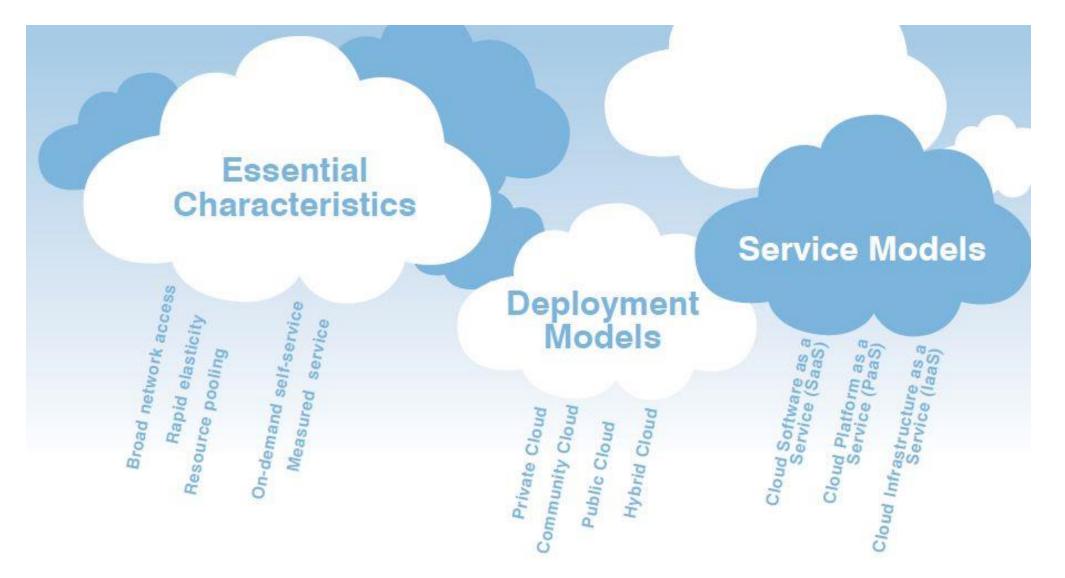
Agenda:

- Clear the clouds on (pun intended)
 - What's "The Cloud"?
 - Why Should I Move to The Cloud?
 - **OHOW** Do I Move to The Cloud?

• Wrap Up/Q & A

What's "The Cloud"?

Quest



http://cioresearchcenter.com/2011/03/the-nist-definition-of-cloud-computing/



- Deployment Models
 - Private
 - Community
 - Public
 - Hybrid
- Service Models
 - SaaS
 - PaaS
 - laaS

Cloud Vendors

- Amazon
 - EC2 (I)
 - AWS (P/S)
 - S3 (Storage)
- Google
 - App Engine (P)
 - Apps (S)
 - Cloud Storage (Storage)
- Rackspace
 - Cloud Servers (I)
 - Cloud Sites (P)
 - Email (S)
 - Cloud Files (Storage)
- SalesForce

6

- Force.com (P)
- Salesforce.com (S)
- Services Cloud (I/Storage)
- Cloud Application Delivery (P)
- HP Software as a Service (S)

- IBM
 - Smart Cloud Enterprise (I)
 - Cloud Application Delivery (P)
 - Smart Cloud Object Storage (Storage)
- Microsoft
 - Private Cloud (I/Storage)
 - Azure (I/P)
 - Office 365 (S)
- Oracle Cloud
 - Software as a Service (S)
 - Platform as a Service (P)
 - Infrastructure (I/Storage)
- Others
 - Joyent
 - Dell
 - HP

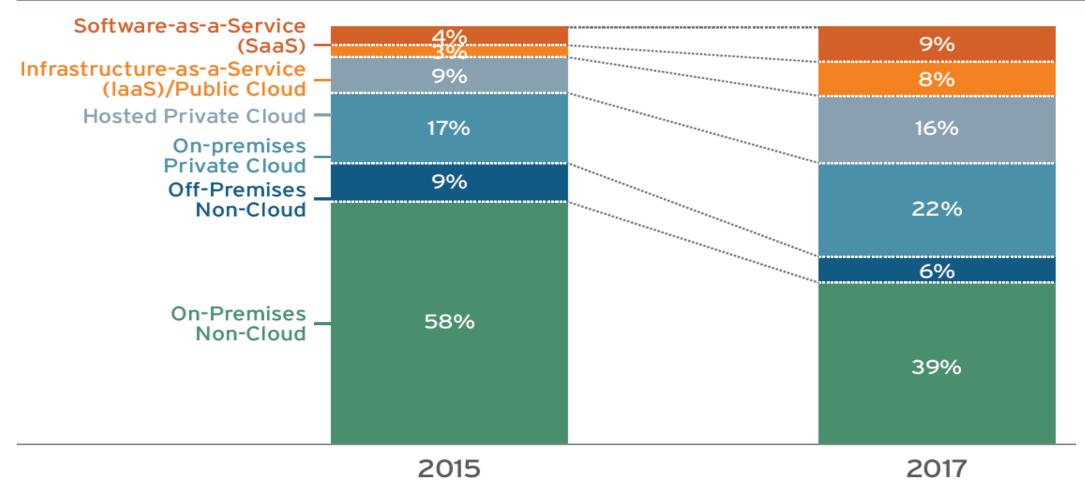


Why Should I Move to the Cloud?



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Operational and Analytic Database Deployments



Source: 451 Research, Voice of the Enterprise: Cloud Computing, Q2 2015



How Do I Move to Cloud?



Quest

Options for Migration to The Cloud

- Conversions
 - Don't migrate, convert
 - Convert OnPremise Application to SaaS
- Move w/o History
 - Start fresh with same software but no historical data
- Just Do It (Big Bang)
 - Take the downtime and risk
 - Use Backup and Restore
 - Long downtimes for large databases
- The Alternative
 - Use a Replication Solution

SharePlex
The Golden Alternative



Quest

What Is SharePlex

- Redo Log Based Database Replication
 - Read the redo log for changes
 - Ship the changes from old to new in near-real time
 - Biggest latency is the network
- Requires source and target have identical data to start
 - Backup/copy consistent to an SCN
- Remove the risk/downtime associated with migration
- Maintain synchronization between databases
 - On-Premise to Cloud
 - Cloud to On-Premise



SharePlex value proposition – One product, many use cases

Availability



High availability/ Disaster recovery



Migrations, patches and upgrades



Active-Active/ Load balancing

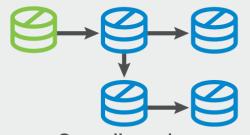
Scalability



Operational reporting/Archiving



Data distribution/ Distributed processing



Cascading using intermediary systems

Integration



Data integration/ Data warehousing



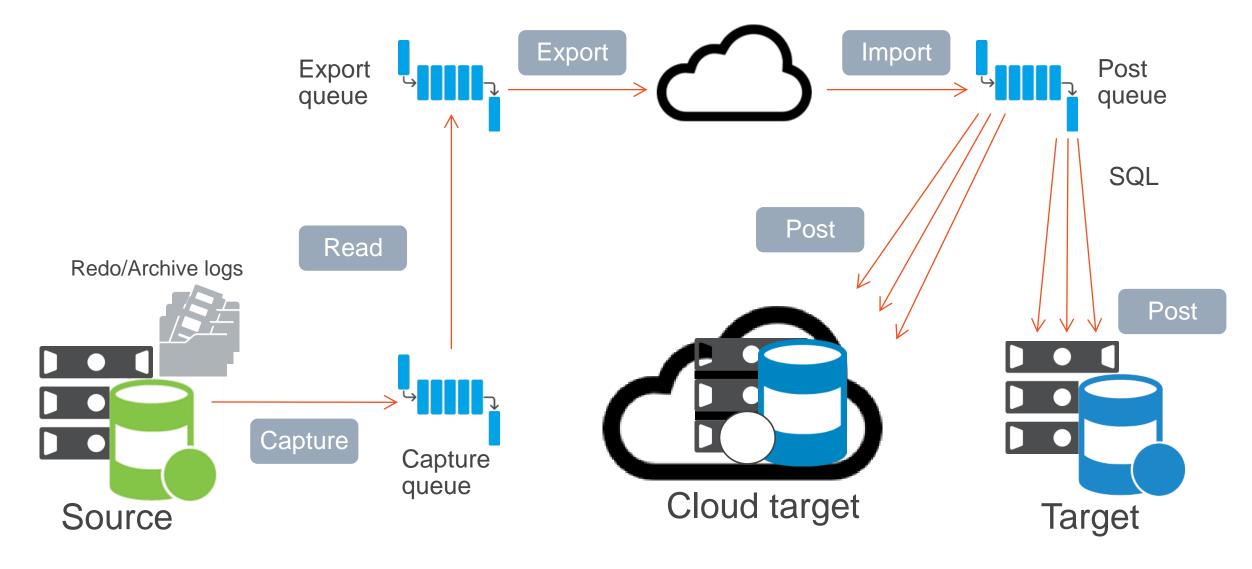
Change history/ Metadata repository



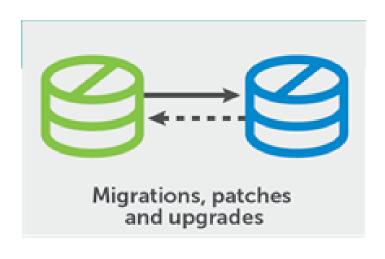
Consolidation

SharePlex product architecture

On-premises, remote, or in-the-Cloud

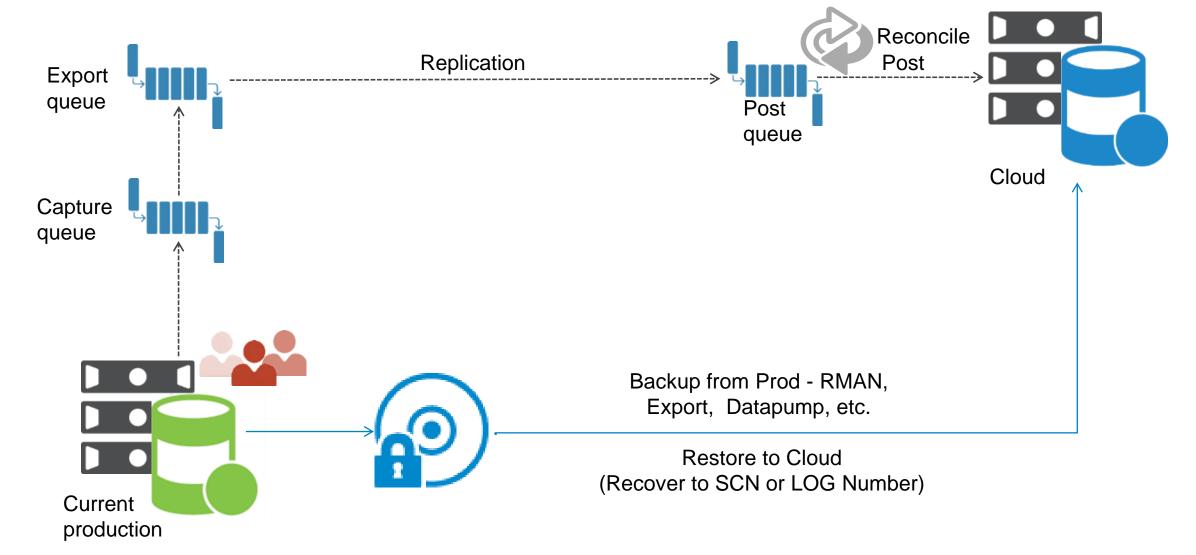


Dramatically reduce downtime for **migrations**, patches and upgrades



- Migration/upgrade of application version, database version, storage, hardware platform, operating system or sometimes all five.
- Migrate to other RDBMS like Microsoft SQL Server, Hadoop, SAP ASE and more.
- Dramatically reduce downtime—continuous replication until ready to switch users to new system
- Reduce costs and potential mistakes by performing the changes during working hours.
- (Oracle) Eliminate risk providing a failback if the changes have undesired effect.
- Supports multiple dry-runs.

SharePlex migration steps using a physical copy



The Details – Migration Using SharePlex

- Set up and Start Replication
 - Stop Post just capture the redo
- Get a Consistent Copy
 - Can use any method
 - Amazon DMS
 - Oracle Clone (Pluggable Database)
 - Export/Import (Data Pump)
 - RMAN
 - Consider be an "Intermediate Database"
 - Record the SCN/Log

The Details – Migration Using SharePlex

- Instantiate the target
 - Copy and Recover
- Reconcile to recorded SCN or Log
- Start Post
 - Catch up
- Full Synchronization

SharePlex 8.6.6 Cloud Support

	AWS RDS		AWS EC2		Azure Marketplace		Azure SQLService	
	Source	Target	Source	Target	Source	Target	Source	Target
Oracle		Х	X	X		X		
SQLServer		х		X		X		X
PostgreSQL (community edition)		X		X		X		
EnterpriseDB				X		X		
Fujitsu				X		X		

SharePlex is **DBTA trend-setting product** in data and information management and **Best Streaming Data**

Solution









Join me for a Webinar on February 28th

- 10:00 AM PST
- See a Live Demo of Replication from on-premise Oracle to Amazon RDS
- https://www.quest.com/event/webcast-database-migration-to-the-cloud-withquest-shareplex8121979



Thank you!

To learn more about SharePlex™ visit www.Quest.com/shareplex

