AGENDA

- Introduction
- Data Integration
- Cloud Technology
- Techniques
- Tools
- Summary
- Collection of Data from Heterogenous Sources
- Store Data for further analysis
- Data Warehouse
- Data Analysis
- Data Prediction
WHAT IS CLOUD DATA INTEGRATION?

Data sharing between hosted applications (SaaS) and on-premise applications

Application Could be either in Cloud or on-premise

Applications communicate directly or through 3rd Party vendors

Batch, real-time, Social Media or Big Data
HOW IS IT DIFFERENT?

Cloud Data Integration

- After the fact thinking
- Data in the Cloud
- Plug and Play
- Agility to connect to any type of data source
- Application Knowledge is not required
- Business analysts/End users are empowered with integration

Traditional Data Integration

- Think before you act
- Data within the firewall
- Data Storage and Architecture
- Custom Coding
- Need Application knowledge
- Need technical expertise
CLOUD INTEGRATION TECHNOLOGY

REST API (Representational State Transfer)
- Used to identify the particular resource involved in an interaction between components.
- Takes advantage of HTTP when used for Web APIs.

SOAP (Simple Object Access Protocol)
- Allows clients to invoke web services and receive responses independent of language and platforms.
- Often replies on HTTP or SMTP protocols and uses XML for the message format.

Cloud Connectors
- Connect between on-demand cloud applications and on-premise systems.

Json (JavaScript Object Notation)
- Lightweight data-interchange format based on a subset of JavaScript.
- Very commonly used for asynchronous browser–server communication.

Real-time Integration
- Event-driven application integrations, API-based services, and service orchestrations for use behind the customer’s firewall, or in the Cloud, or both.
DATA INTEGRATION IN HEALTHCARE

- Patient Data
- Insurance Data
- Patient Orders
- Case and Response Data
- Managed Care
TECHNIQUES

Identify the Use Case
Top 10 Applications
Consider Hybrid Model
Create SDLC (Software Development Life Cycle)
Best Practices for integration
Release Management
# CLOUD APPLICATIONS

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<tr>
<th>Application</th>
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<tbody>
<tr>
<td>Microsoft Office 365</td>
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<td>Salesforce.com</td>
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<td>Box</td>
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<td>Amazon Web Services</td>
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IPAAS (INTEGRATION PLATFORM AS A SERVICE)

Provides integration capabilities as a multi-tenant Cloud service
Web based interface
Connectors to Cloud applications
Cloud to Cloud or Ground to Ground or Cloud to Ground or Vice versa
Subscription service Model (Pay as you grow)
No upgrades to the software
Thank you for your time.

• Structured, unstructured, Social Media, IOT etc.
• Batch or real-time

• Visualization
• Self service

• No limits
• Low cost

ONE MORE.............DATA LAKE!