Talend Integration Cloud

ISC Lunch and Learn
August 17, 2017

Talend Integration Cloud – Agenda

- ◆ ETL in ISC

- ◆ Why Talend?

- ◆ Talend Integration Cloud Architecture

- ◆ Demonstration
  - Connectors/Components
  - Building jobs
  - Integration Cloud

- ◆ DW Merge vs. Talend

- ◆ Job Statistics

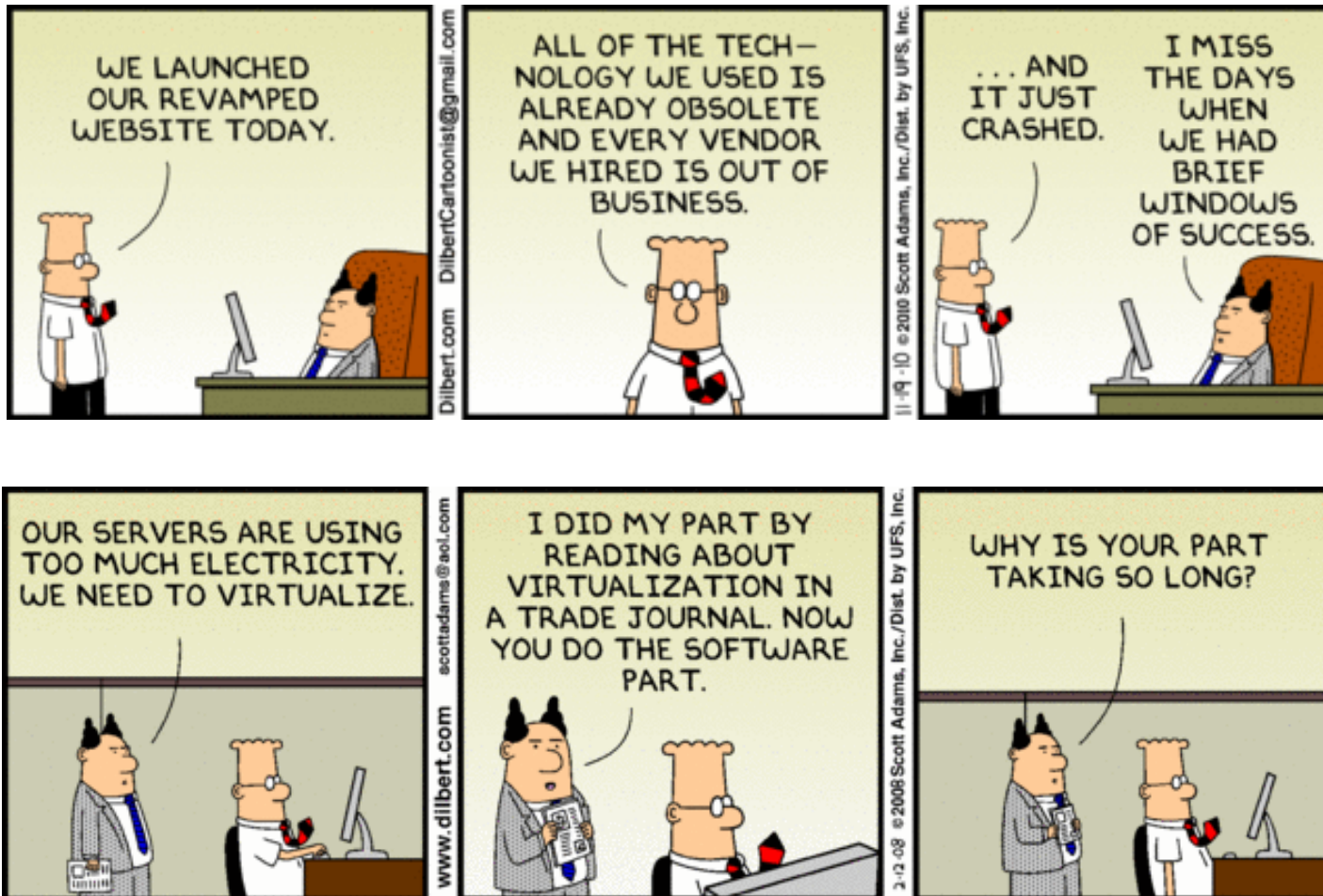UNIVERSITY *of* PENNSYLVANIA

ETL in ISC - What is changing?

THEN...

♦ Data warehousing – 1970's/1980's

♦ ETL tools – 1980's/1990's

♦ Files, RDBMS (Oracle/IBM/Microsoft), mainframes, data centers

♦ Deep expertise and specialization

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NOW…

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ETL in ISC - What is changing?

NOW…

♦ Cloud applications/databases

♦ Many proprietary database vendors

♦ Databases are not always relational

♦ Unstructured data

♦ Higher volumes of data

♦ Service oriented architectures and software

♦ Vendor diversification

ETL Tool Objectives for ISC

❑ Support key data warehouse and reporting/analytic requirements
- o Diverse and growing list of data sources
- o High volume replication/transforms quickly
- o Lookups, keying
- o Slowly changing dimensions
- o Data quality, MDM, Data governance

❑ Faster time to market for data integration
- o Enable data SME's to develop data flows and rules
- o People who are closest to the data, reporting requirements
- o Reduce custom programming
- o Increase agility – vendor complexity obscured from user
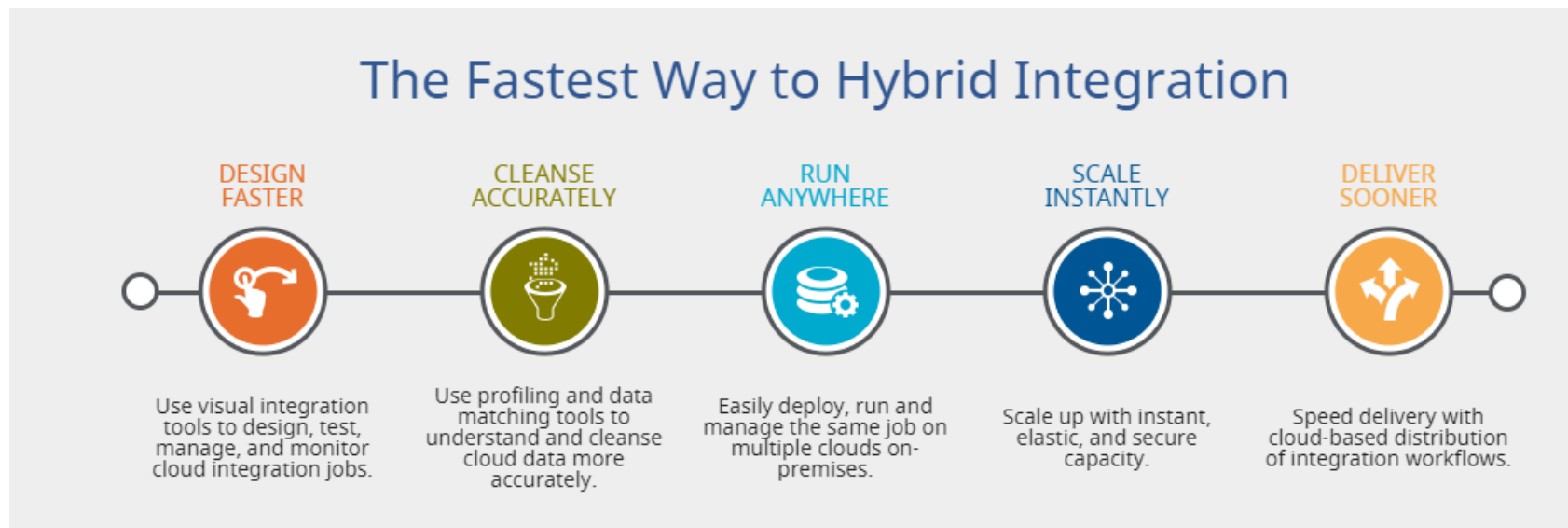
❑ Hybrid Cloud/On-premise architecture
- o Key applications still on premise – Banner, Financials, Atlas
- o Many applications moved to cloud

❑ Confidence in vendor
- o Support and ability to find help materials
- o Product vision and roadmap
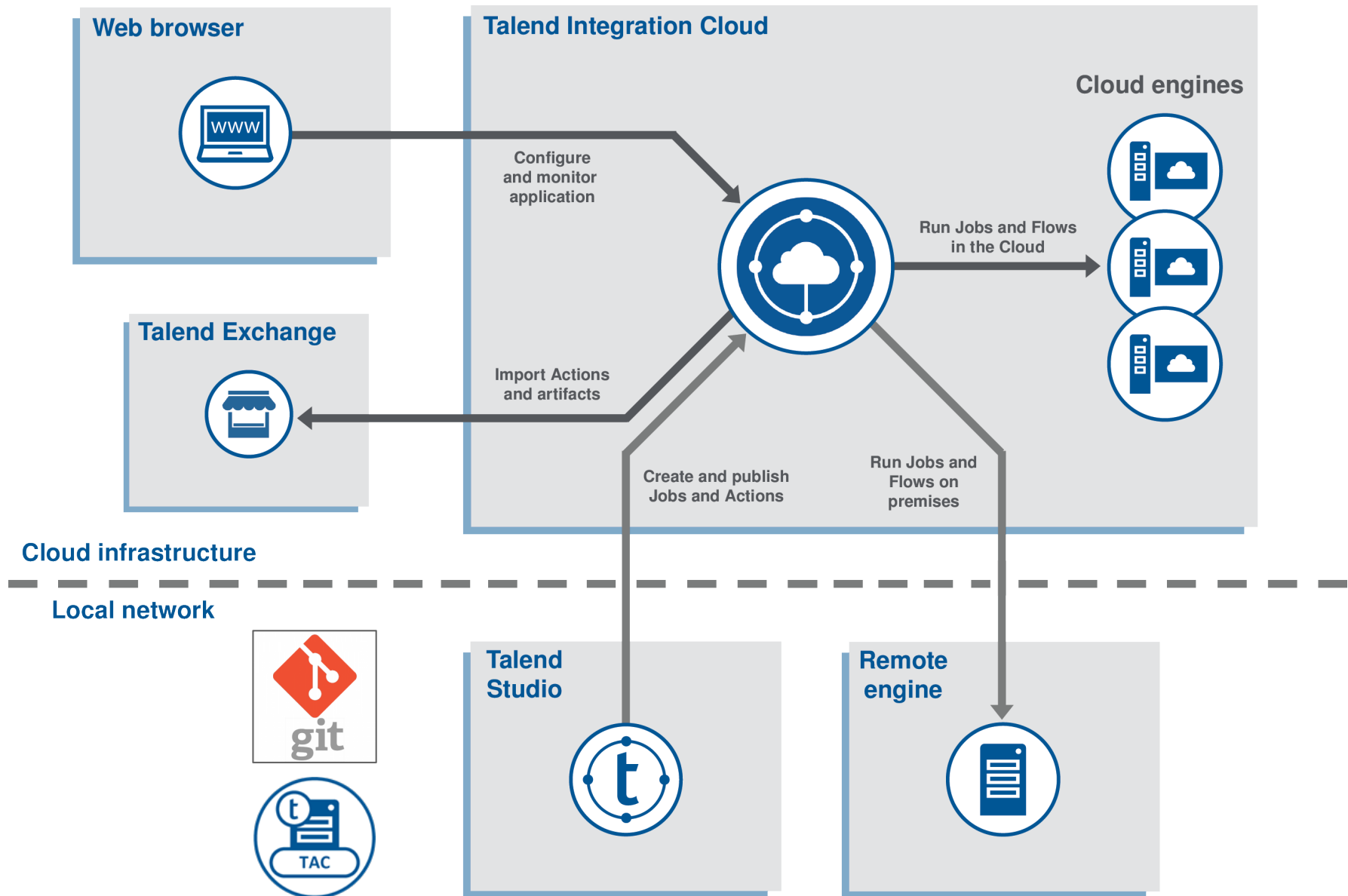
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Talend Integration Cloud

- Hybrid architecture

- 900+ connectors/configurable components
  - Handles proprietary concepts by database and cloud vendors

- Open source base, exchange community

- Broad core product features extensible by targeted integrated modules
  - Big data, MDM, Data preparation, Data quality, Data stewardship

- GIT integration for source code control

The Fastest Way to Hybrid Integration

DESIGN FASTER	CLEANSE ACCURATELY	RUN ANYWHERE	SCALE INSTANTLY	DELIVER SOONER
Use visual integration tools to design, test, manage, and monitor cloud integration jobs.	Use profiling and data matching tools to understand and cleanse cloud data more accurately.	Easily deploy, run and manage the same job on multiple clouds on-premises.	Scale up with instant, elastic, and secure capacity.	Speed delivery with cloud-based distribution of integration workflows.

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Talend Integration Cloud Architecture

Demonstration

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Questions?

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