

AMAZON CLOUD DEMONSTRATION ENVIRONMENT

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TEAM SENTINEL PRIME 2010



BACKGROUND

Paychex sales staff give live demonstrations of various Human Resources and Payroll products to potential clients.

Sales representatives collaborate with system administrators to rig up demos tailored to individual corporations.

MOTIVATION

- ❑ The demonstration process is difficult to set up for sales representatives
- ❑ Data integration between applications is hard to demonstrate live
- ❑ Customizing data for specific demos is a time consuming and laborious process

FEATURES

- ❑ Fast setup of applications to demo using Amazon EC2
- ❑ Easy data customization for clients
- ❑ Monitoring of EC2 instances
- ❑ Real-time data integration across applications

COMPONENTS

- ❑ Web Application
 - ❑ Setup and customize demos
 - ❑ EC2 instance management
- ❑ Job Queue
 - ❑ Spawn EC2 instances
 - ❑ Data generation for applications
- ❑ Windows Services
 - ❑ Queue watchdog
 - ❑ Periodic instance actions

USER INTERFACE

Create and Run Demo

1. The client, company, or person you're giving the demo to.

2. Choose the Paychex applications your demo will include.

3. Select which industry your demo is tailored for.

Name

Apps to Start

- HR
- Payroll
- TLO
- Tax

Industry

- Trucking
- Database
- Restaurant

Launch Demo

Cancel

LAUNCHING A DEMO

Tony Pepperoni

Payroll

HRO

TLO

DEMONSTRATION MODE

All Running Demos

Company	Admin	Status
Pizza Hut	Admin	Booting
Domino's	Admin	Launching
TK's Pizzeria	Admin	Ready
Little Caesar's	Admin	Shutting Down

Add New Industry

Create New App

Run New Demo

ADMIN DEMO DASHBOARD

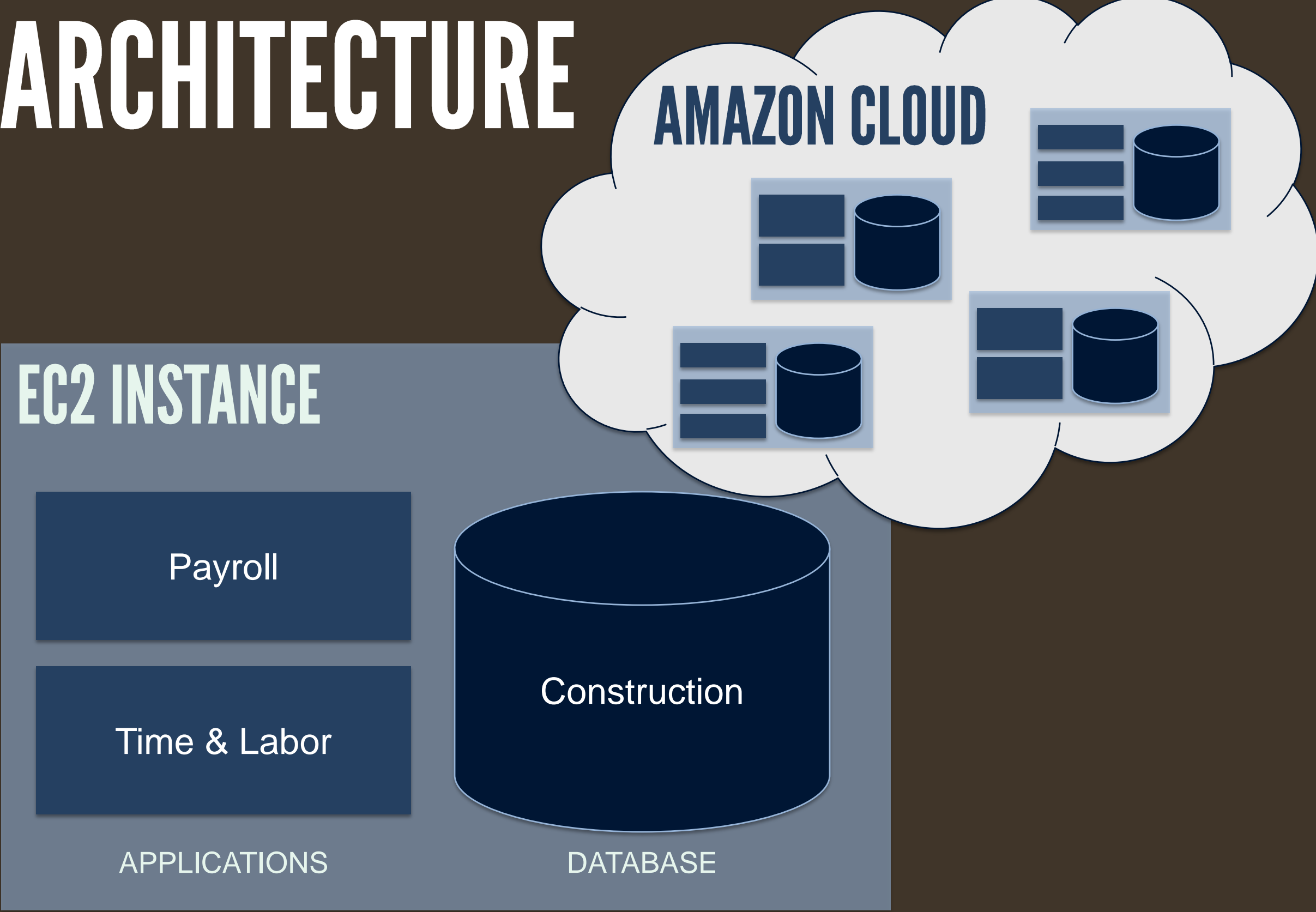
Industry: Trucking

Save Changes

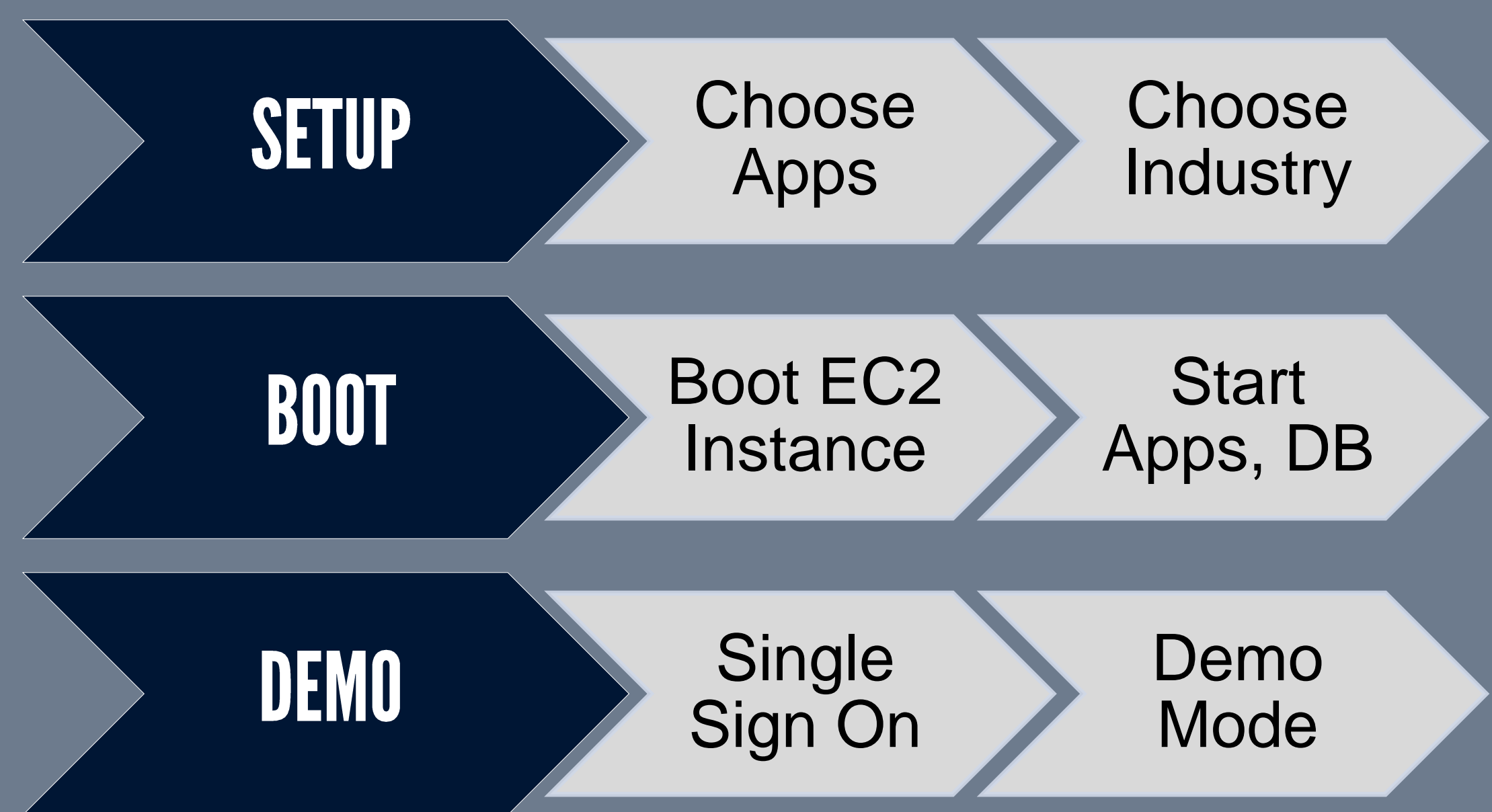
Employee	First Name	Last Name	Wage	Deductions	Hours	Job Title	Hours Driven
Rever	Sever	50 000	1	50	Driver	500	
Rever	Miller	100 000	5	45	SelfDriver	625	
Rever	Reed	50 000	1	40	Driver	500	
Rever	Goldman	100 000	5	45	SelfDriver	625	
Jack	Heard	20	4	30	Driver	0	
Any	Brigand	54 000	1	23	SelfDriver	17 000	
Mark	Stump	150 000	1	55	SelfDriver	177 375	

INDUSTRY DATA EDITOR

ARCHITECTURE



DEMO CREATION



PROCESS: SCRUM

- ❑ 7 sprints, 2 weeks each
- ❑ User stories as acceptance tests
- ❑ Planned sprints with sponsors
- ❑ Test driven development

TECHNOLOGY

Amazon Elastic Compute Cloud (EC2)

Continuous Integration Server

ASP.NET MVC 2, SQL Server 2008

Project Management and Collaboration

Unit/Acceptance Testing Framework

Scrum Backlog Organizer

FUTURE PLANS

- ❑ R&D department to hook in real applications
- ❑ Proprietary database integration
- ❑ Enhanced EC2 instance management
- ❑ Deployment to sales representatives