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# KM Session - Salesforce CI/CD

**Presenter: Gopinath Rethinam**

**Date: May 04<sup>th</sup> 2018**

# Agenda

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- ❑ Need of CICD in Salesforce
- ❑ Tools Overview
- ❑ Working with feature branch
- ❑ Branching Model

# Need of CICD in Salesforce

**Salesforce.com** is a cloud-based(SaaS) CRM system that allows salespeople to track their sales, support people to track their cases, and the entire company's employees to collaborate with each other.

For Salesforce developers working with a single company, **changesets** are a great way to move updates between sandboxes and a parent org. However, when working on the enterprise tier, we often need to transfer components between various test and developer environments, which are outside the scope of changesets.

To support multiple developers working across multiple environments on various features and fixes, a proven path is to use an automated continuous integration system to simplify deployments and promote transparency.



# Tools Overview

Tools	Function
Mavensmate & VS Code	IDE used for developing salesforce code and pages
ANT & Force.com Migration Grunt	Deployment tool
Bitbucket	Code Repository
Jenkins	Server software to automate analysis and deployment – runs Sonar and ANT
SonarQube	Code analysis server software – manages reviews and actions
VillageChief CodeScan	Code analysis tool(Licensed Sonar Plugin)
JIRA	User interface for Devops Team

# Working with feature branch

**CICD**

- **feature**
- **merge**



Application Developer



**JIRA  
Stories**



**Automation**



**Feature  
Branch @  
BitBucket**



Application Developer



**Git Client**

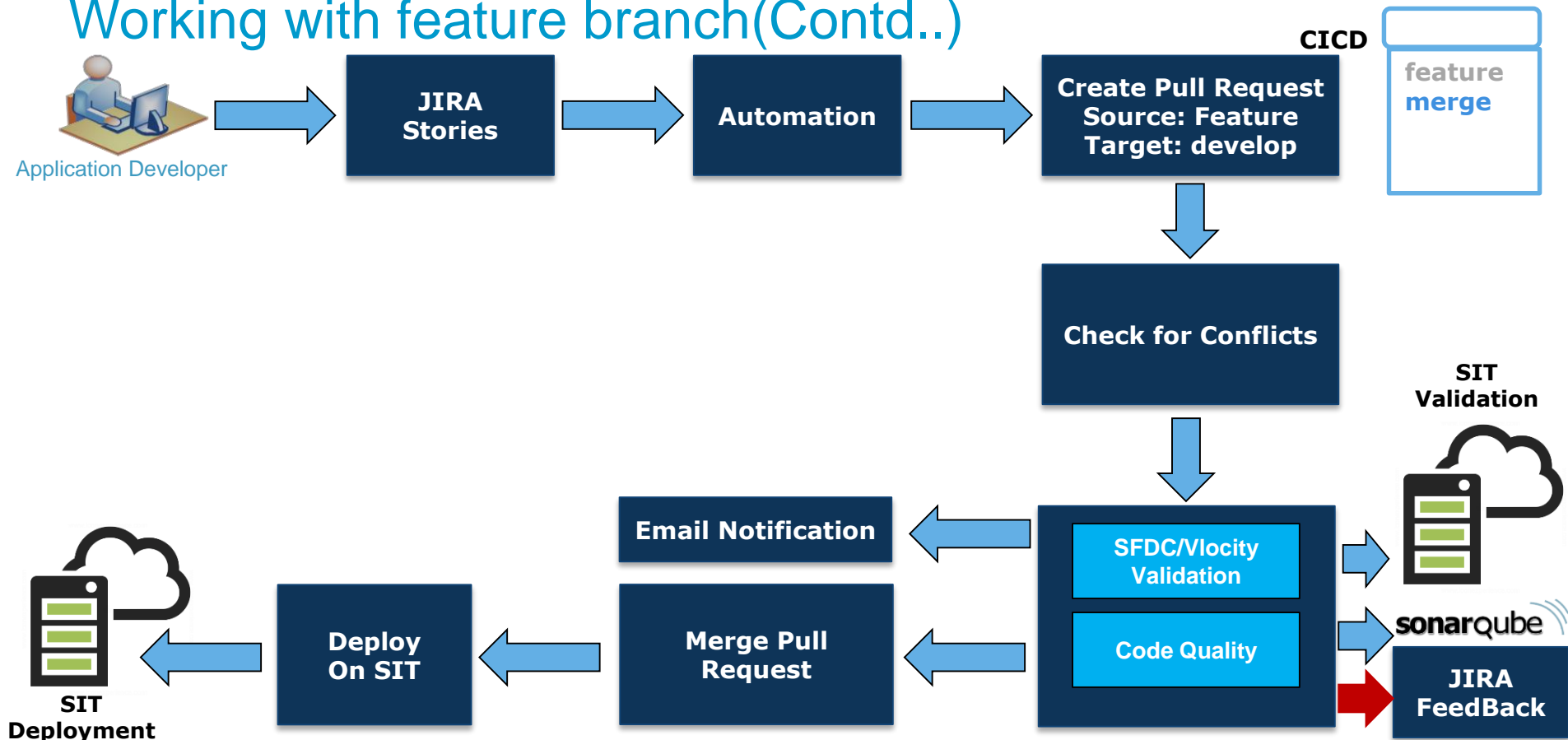


**Fetch Remote  
Repository**

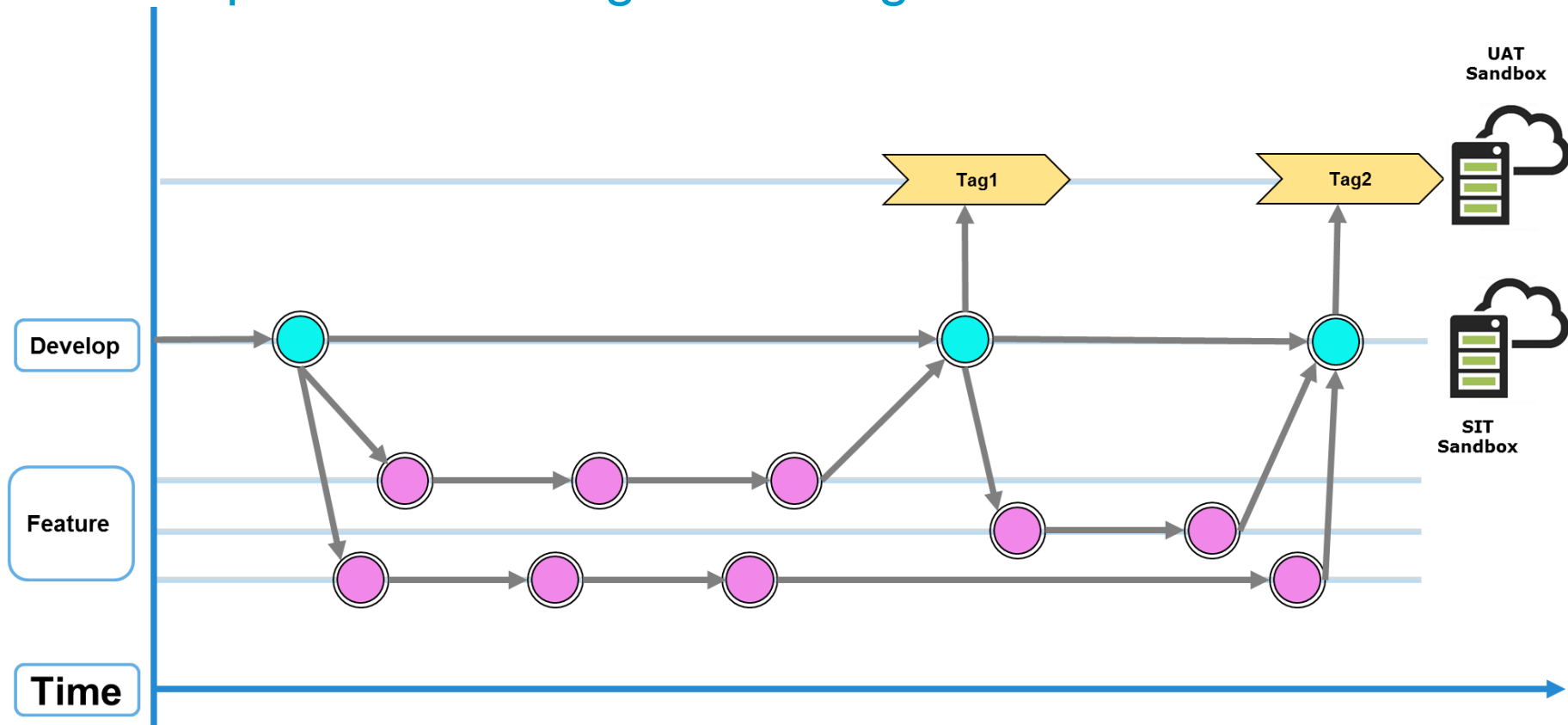


**Checkout  
feature  
branch**

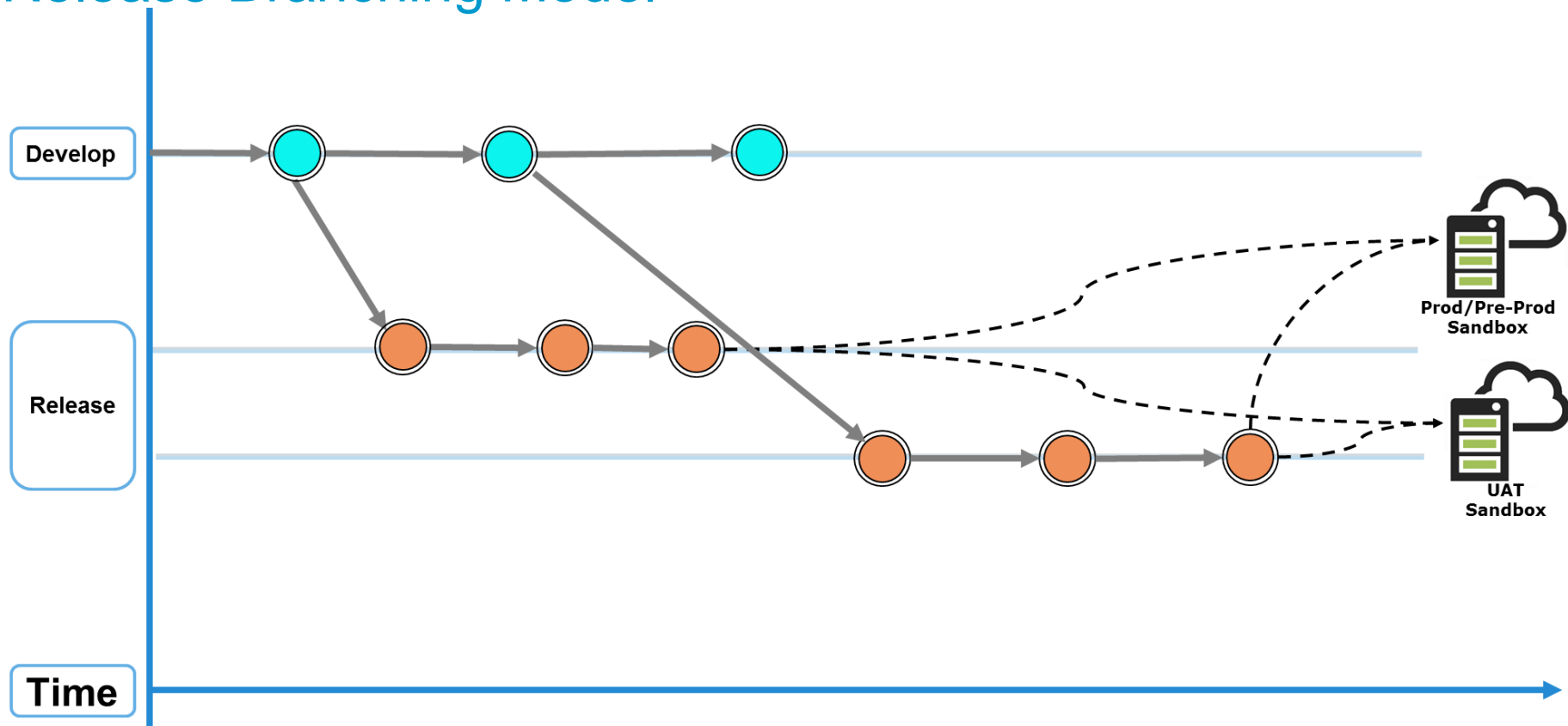
# Working with feature branch(Contd..)



# Development & Testing Branching Model

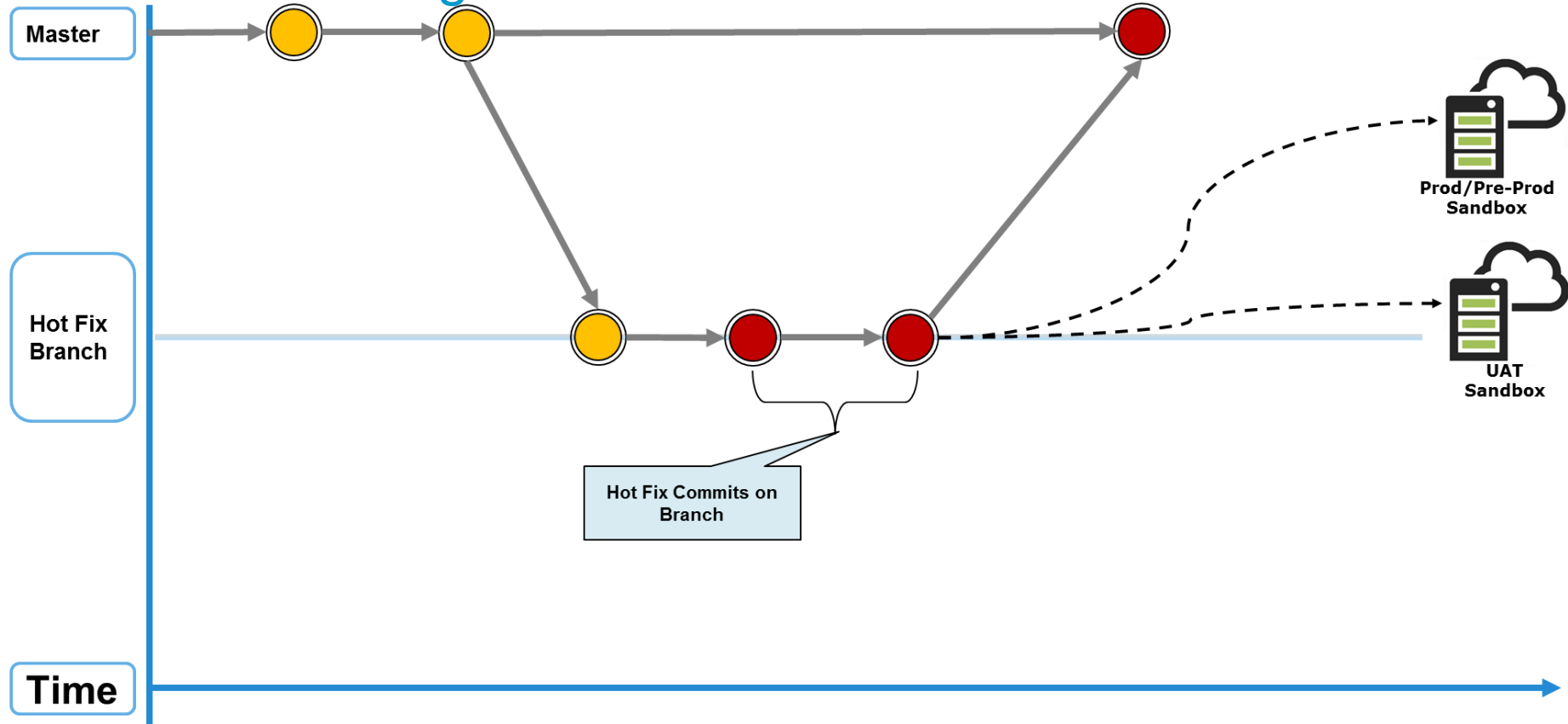


# Release Branching Model





# Hot Fix Branching Model





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DEMO

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# Team

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- ❖ Gopinath Rethinam(608973)

# Reference Link

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<https://www.jitendrazaa.com/blog/salesforce/continuous-integration-in-salesforce-using-jenkins-and-git-video-tutorial/>

<https://bjurr.com/continuous-integration-with-bitbucket-server-and-jenkins/>



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**KEEP CHALLENGING™**