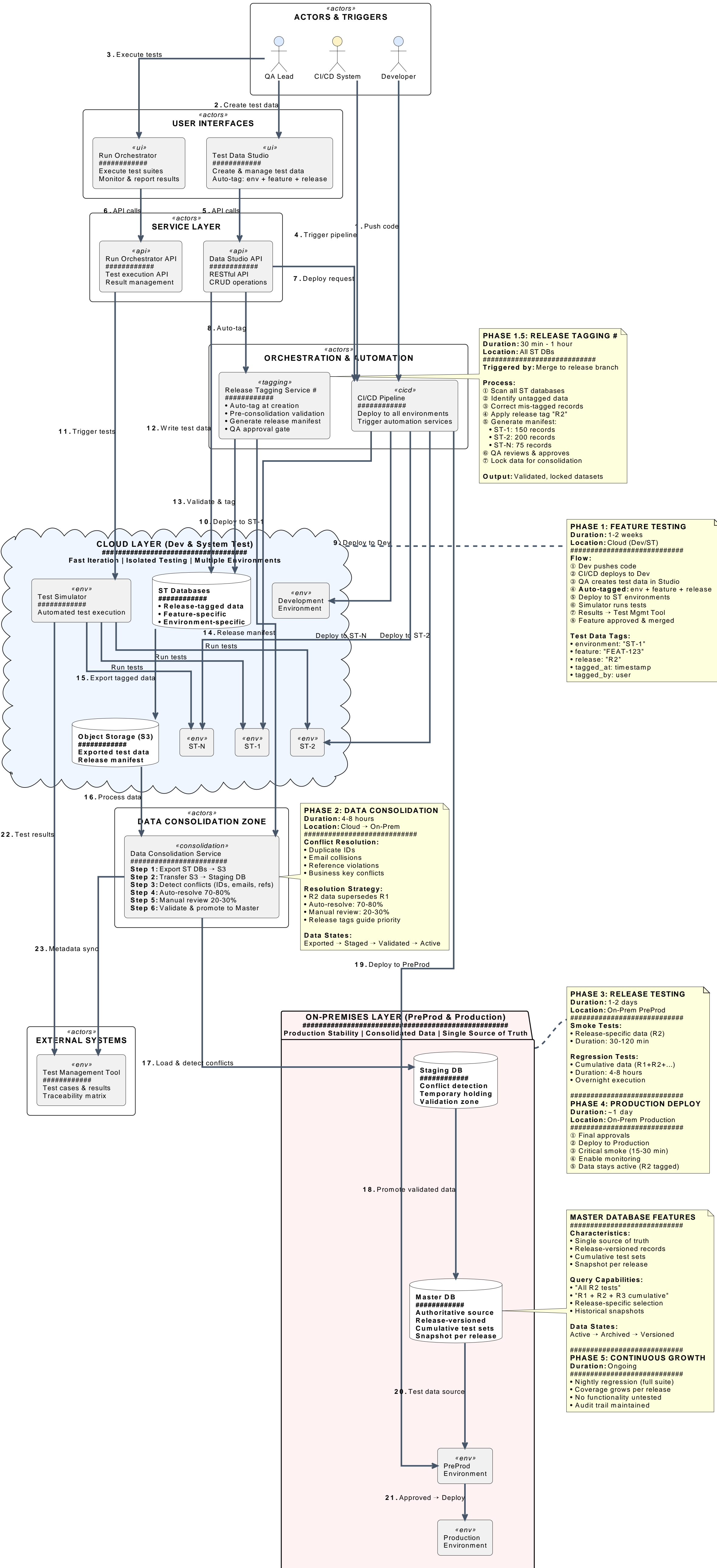


# Test Automation System Architecture

## End-to-End Flow: Development → Testing → Production



### COMPONENT TYPES

#####

<#DBEAFE> **User Interface** </#> | QA-facing applications

<#E9D5FF> **Service API** </#> | REST APIs

<#FEF3C7> **CI/CD Pipeline** </#> | Deployment automation

<#D1FAE5> **Release Tagging #** </#> | NEW: Tag management

<#FECDD3> **Consolidation** </#> | Data merging service

<#EFF6FF> **Cloud Zone** </#> | Fast iteration environments

<#FEF2F2> **On-Prem Zone** </#> | Production environments

### KEY CONCEPTS

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**Tag Structure:** env + feature + release

**Data Flow:** ST DB → S3 → Staging → Master

**Conflict Resolution:** 70-80% auto, 20-30% manual

**Test Strategy:** Cumulative regression (R1+R2+R3+...)