

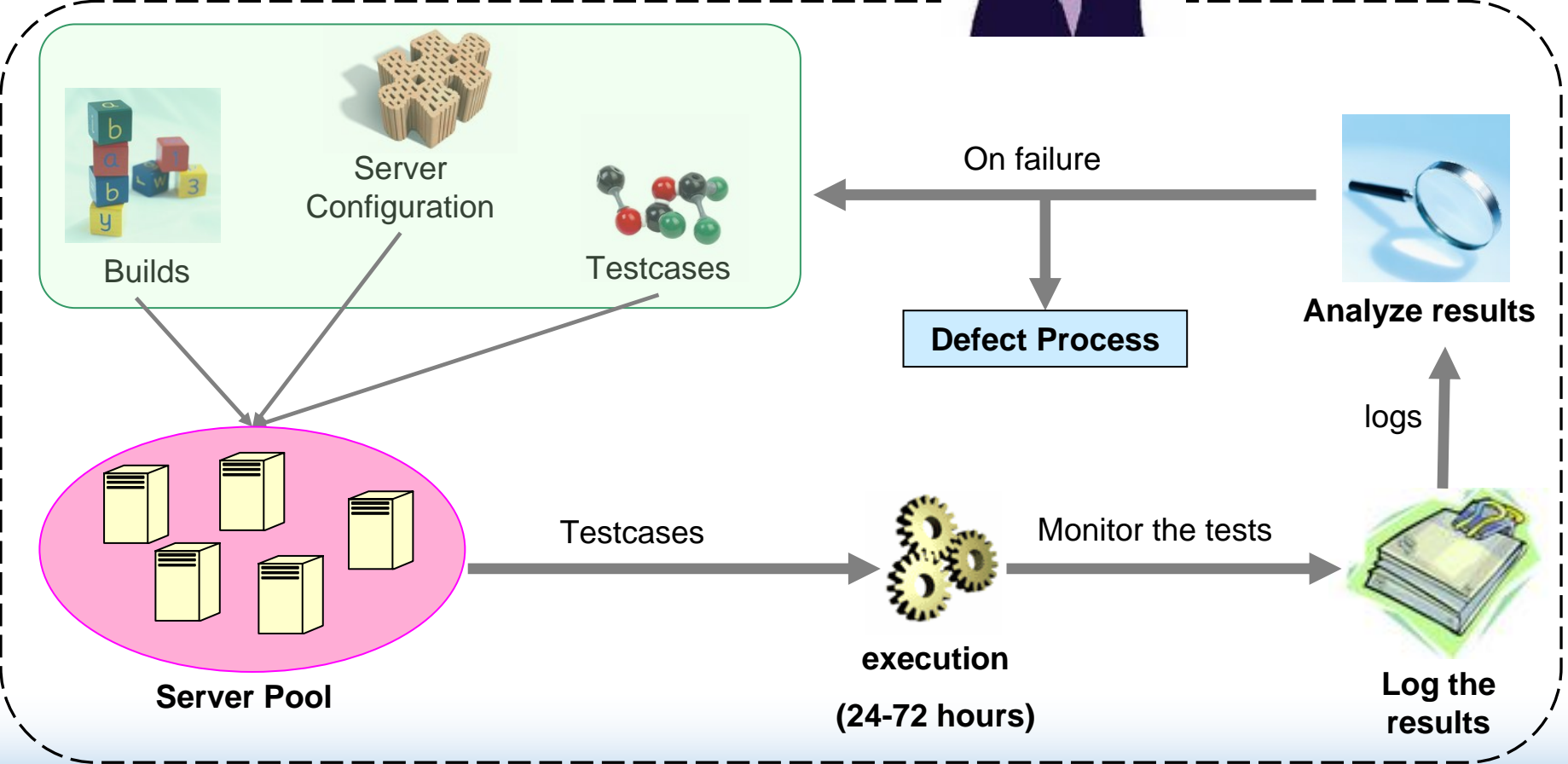
Cross-Platform Automated Regression Test Framework

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Agenda

- **Cross-Platform Testing Scenario and Challenges**
- **Need for CART Framework**
- **What is CART?**
- **How does CART work?**
- **Benefits of CART Framework**
- **Road Ahead**
- **Summary**
- **Questions**

Cross-Platform Testing Scenario



Major Challenges Faced

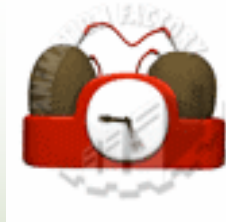
Laborious

Repetitive

Tedious



**TESTCASES
RUN FOR
24-48 HOURS**



**MONITOR THE
TESTCASES
CONTINUOUSLY**

Error-Prone



**RECORD THE
OBSERVATIONS**

Manual

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Typical Testing Steps

- **Test Planning** - determine applications, priority level and schedule.
- **Test Environment Preparation** - technical environment that the test(s) will be executed in.
- **Test Construction** - developing the test scripts and test cases.
- **Test Execution** - automation saves significant time.
- **Test Evaluation** - decision is made as to the readiness of the application for release.

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Features of CART

Cross-Platform Automated Regression Test Framework

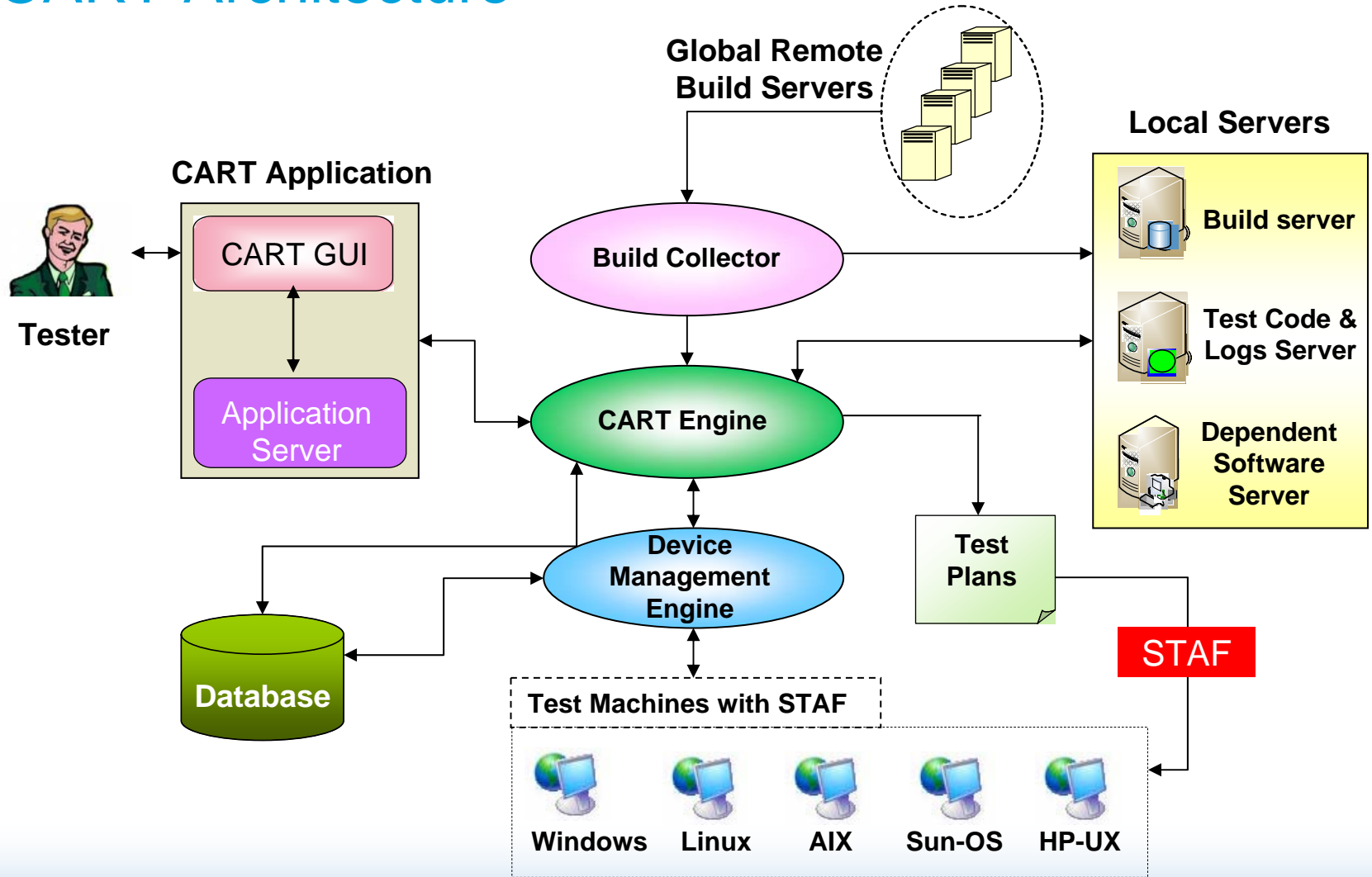
- Web based GUI for launching the test plans from anywhere, anytime.
- Web based GUI for creating test plan coverage.
- STAF/STAX for peer-to-peer communication.
- Centralized and Uniform Interface for managing test devices and test builds.

Features of CART (cont..)

- Log Analyzer - highlights Warnings and Errors using different color codes.
- Support for launching tests like Java, JUnit, Ant, RFT, HttpUnit etc.,
- Intelligent cleanup of test machines
- Integrated with Version Control System – provides API support.

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CART Architecture



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Benefits of CART

- Reduces the overall time required for managing the test cycle.
- Reduces human errors.
- Uniform interface to multiple platforms.
- Centralized repository for log files for audit purpose.
- Easy of Use – for testers to manage defects.
- Flexible for testing any kind of middleware product.

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Road Ahead

Enhancements

- End-to-End automation by launching the test plans automatically.
- Automation for z-Series and I-Series Platforms.
- Testing for a defect.
- Testing for a distributed environment.



Summary

Automation is

- strategies, tools and artifacts
- Reduces the need of manual or human involvement or interaction.
- Avoids spending time in unskilled, repetitive or redundant tasks.
- Provides bandwidth to **Innovate !!**



Thanks



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Questions

