

Continuous Integration Services: The CI Workshop



Overview

The ultimate goal of Continuous Integration (CI) is to reduce or eliminate engineering rework, and thus reduce the cost and time in delivery of quality software. CI dictates that as soon as changes to an application are available, they are integrated with everyone else's changes and run through a rigorous build and test system. In this way, development teams are able to catch and correct errors early.

CollabNet's CI Workshop helps organizations get started quickly and efficiently, setting them on the optimal path to success. We bring to bear deep subject matter expertise and rich tools that ensure that organizations have the skills and the roadmap to get their CI framework into full production. Our on-site service package provides implementation and configuration support, as well as in-depth knowledge transfer.

The Benefits of Collabnet CI Services

With CollabNet's 4-day CI workshop, enterprises have access to some of the best and brightest in the business. Our consultants have years of hands on experience in a variety of disciplines and in a wide array software engineering tools.

- **Improve Software Quality and Reduce Risk:** Rapid and efficient implementation of a CI framework provides continuous feedback to software development team so that they have transparent visibility into the real-time state of software projects and builds.
- **Increase Team Productivity:** Automation of common software development process such as build, test and inspection minimizes error prone activities, and achieves improved traceability and reliability. Software development teams can spend more time on value-adding activities versus repetitive activities.
- **Deliver Quality Software:** At any given time CI ensures that your software is always ready to be deployed in a consistent manner this reduces the effort of integrating software at release time, thus software deployment becomes a non-event.

Services Deliverables

CollabNet's CI workshop begins with comprehensive training in continuous integration so that the audience has a consistent understanding of the basic fundamentals and industry best practices.

The consultant will then embark upon an assessment of current development practices to evaluate strengths and weaknesses, with particular attention on the build-test-deploy phase of software development. Tools will be analyzed, integrations investigated, test cases reviewed and so forth.

Subsequently the consultant will work with the customer's technical team to deploy a working prototype of the CI framework. Not only does this provide significant knowledge transfer, it also delivers a framework which can be used for growth. Finally, the consultant will deliver an executive report with findings and recommendations to help plan for the next steps in enterprise roll out of the CI framework.

Benefits of CI

- Detection and correction of code integration problems continuously - avoiding last-minute chaos at release dates;
- Timely notification of broken or incompatible code;
- Visibility of conflicting changes;
- Immediate unit testing of all software changes;
- Full time availability of a recent build for testing, demo, or release purposes;
- Immediate feedback to developers on the quality, functionality, or system-wide impact of code they are writing
- Frequent code check-in pushes developers to create modular, less complex code
- Comprehensive build and test metrics

Up-Skill for the Agile Enterprise



Whether training is delivered in a public setting, a private engagement, online or as interactive computer-based session, CollabNet training takes the approach that students learn best by doing.

Register for certified training at: www.collab.net/training

Why CollabNet?

- Deep Agile expertise and experience
- A leading provider of enterprise class Agile Application Lifecycle Management
- Open source pioneers (Subversion founder and corporate sponsor)
- Unparalleled market adoption and analyst recognition
- Leaders in Cloud-based development and deployment
- Long term customer satisfaction, from the workgroup to the enterprise
- Proven expertise in emerging DevOps disciplines

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Deliverables:	Training, Assessment, Evaluation and Discovery Working Prototype CI Framework Executive Report
Duration:	4 days
Pricing:	\$10,000 plus travel
Related Services:	Hudson Implementation Workshop TeamForge Implementation Workshop TeamForge JumpStart Enterprise Edition Continuous Integration Workshop TeamForge Installation Services

Organizational Challenge	Organizational Impact	CollabNet Solution
Frequent problems with integration builds	Development teams waste time fixing broken builds. Build and test cycles are skipped, and product quality suffers.	CollabNet delivers services and tools that help enterprises deploy robust, enterprise-class continuous integration platforms.
Scaling the CI infrastructure across complex, distributed enterprises	As the dispersed build environments grow in complexity, so does the effort to scale these environments to meet the demands of growing teams, additional capabilities, wider geographical dependencies and more complicated build scenarios.	The CollabNet TeamForge ALM platform is unique in its ability to support complex distributed development projects and teams. The platform incorporates core development facilities like configuration management, build automation, and collaboration tools.
Hardware utilization inefficiencies	Larger, mature projects often require significant hardware resources for both building and testing. A decentralized build and test environment across multiple CI instances cannot effectively leverage managed virtual machines and/or pooled resources (both hardware and software).	TeamForge Lab Management delivers elastic build and test server provisioning for just-in-time computing resources. Enterprises benefit from the intelligent use of resources, allowing them to dynamically scale up build and test capacity as demand spikes, and scale back those capabilities when demand tapers off.
Barriers to sharing and reusing scripts	Within an enterprise, reusable code components are shared between teams. Often, when these libraries are reflected on multiple continuous integration servers, the build scripts for those libraries begin to diverge. Dispersed artifacts lessen the likelihood that code, tests and scripts will be effectively shared by all development teams.	CollabNet TeamForge provides a common infrastructure for distributed teams that enhances collaboration and improves re-use of development assets. Changes to the assets are controlled, allowing flexibility at the team/project level, with control at the management level.

About CollabNet

CollabNet is a leading provider of Enterprise Cloud Development and Agile ALM products and services for software-driven organizations. With more than 10,000 global customers, the company provides a suite of platforms and services to address three major trends disrupting the software industry: Agile, DevOps and hybrid cloud development. Its CloudForge® development-Platform-as-a-Service (dPaaS) enables cloud development through a flexible platform that is team friendly, enterprise ready and integrated to support leading third party tools. The CollabNet TeamForge® ALM, ScrumWorks® Pro project management and SubversionEdge source code management platforms can be deployed separately or together, in the cloud or on-premise. CollabNet complements its technical offerings with industry leading consulting and training services for Agile and cloud development transformations. Many CollabNet customers improve productivity by as much as 70 percent, while reducing costs by 80 percent.

For more information, please visit (www.collab.net).

