

PERFORCE

Performance Tuning Assessment

A Consultant will analyze the current deployment infrastructure and usage of Perforce, as well as related software development processes. Consultant will become familiar with the environment, business objectives, and constraints, and then make recommendations in line with best practices and long-term scalability.

The Consultant interacts with Perforce Administrators, IT staff, and various “power users”. Consultant will review usage patterns from discussions as well as hard data like server logs. Consultant will engage in a discovery process to determine likely causes and resolutions of performance issues experienced by users.

The assessment and discovery effort will be partially driven by recommendations of Client’s staff, and partially exploratory in nature. Sample areas explored in a typical assessment include:

- Review of server configuration, deployment architecture, software and hardware, for all Perforce server components (P4D, P4P, P4Web, P4Broker, P4DTG, etc.)
- Performance benchmarks using Perforce’s standard *branchsubmit* and *browse* benchmark tests, to compare your hardware performance to known performance baselines established by Perforce
- Review workspace configurations, branching practices, and file metrics
- Capacity planning options to support long term scalable growth of user base and files
- Review triggers table and custom policy enforcement mechanisms
- Access control (“protect” table) optimization for performance and security
- Review of release/build practices, with focus on automated build systems and their impact on the Perforce server
- Review of the QA practices, with a focus on automated testing scenarios and their impact on the Perforce server
- Incorporation of third-party code and/or development work into Perforce
- Deployment Architecture design to achieve high availability and disaster recovery goals including backup and recovery procedures
- Integration of Perforce with external authentication systems, such as active directory or LDAP
- Review automated processes interacting with Perforce, including continuous build systems and defect trackers
- Perforce server disk space monitoring
- Monitoring performance (real-time and offline)
- Recommended server maintenance activities
- Perforce server log file analysis to review usage patterns and identify specific user requests causing performance issues