



Right-sizing Systems for New Applications

The Problem

When rolling out new or modified applications, it is critical to ensure that your production infrastructure will have the capacity to meet required service levels. Infrastructure must also be cost-effective. While it may be tempting to reduce risk by over-provisioning, this would be inefficient and wasteful of financial resources. Further, without knowing how much infrastructure capacity is required, there is the risk of missed service demands even when it is believed that overprovisioning is being employed. To achieve balance, the optimal configuration for systems must be precisely determined. Significant cost reduction/avoidance and risk mitigation can be achieved by accurately predicting production performance of contemplated architectures prior to application roll-out.

The Solution

The TeamQuest solution enables you to easily and rapidly determine the least-costly production configurations for ensuring that your applications and services will meet service levels. Wasteful over-provisioning is avoided without increasing the risk of bottlenecks or outages.

Using measurements obtained from running small test workloads on inexpensively-configured test systems, TeamQuest software accurately predicts the performance of production workloads on production systems. You can rapidly determine which production components will become saturated, and under what specific load (or configuration) constraints, enabling focused optimization efforts. Accurate response time and throughput predictions are provided for variations in workloads and production configurations, ensuring an understanding of the least-expensive configuration that will meet required service level requirements.

The TeamQuest solution:

- Uses a fast, accurate, and cost-effective network queuing solver to predict resource requirements for new or modified apps
- Evaluates what-if scenarios based on demand and business forecasts
- Delivers a detailed understanding of how new applications will perform before launching them in production environments
- Determines optimal system configurations, minimizing cost while still meeting response time requirements
- Predicts production performance based on inexpensive small scale testing
- Reduces cost and effort associated with load-testing solutions and systems
- Enables optimization *before* production

Success Stories from Real TeamQuest Users

- A leading global provider of financial market data knows the performance profile of applications prior to deployment. Once deployed, they monitor performance, analyze potential issues with databases and applications, zero in on problems and isolate performance bottlenecks.
- Law School Admissions Council knew conclusively that a phased application roll-out could be supported on the existing hardware. They use TeamQuest software to predict performance with certainty, isolate root causes, and proactively address potential problems.
- A Fortune 50 health insurer projects the impact of growth on application performance, determining when and where bottlenecks will occur.
- A US government agency saved nearly \$1M within two weeks of installing TeamQuest software by right-sizing the predicted system requirements of two projects.
- A Fortune 200 agency cut resource consumption in half while substantially improving response time for one frequently used application.

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