

# 6. Performance Assessment, Capacity Planning And Architecture Review

Forecast resource consumption and avoid overspending on the H/W and S/W assets

## Business Challenges

- System availability and response time to meet corporate business goals
- Proactively predict the exact system resources to meet the dynamic growth
- And forecast consumption hence fully utilise the current system assets
- Tools and manpower to proactively manage the system performance

## Our Solution Offerings:

When it comes to system availability and response time to meet the corporate goals and predict the exact system resources to meet the dynamic growth, BT Frontline offers complete methodology and tools to meet the above business challenges.

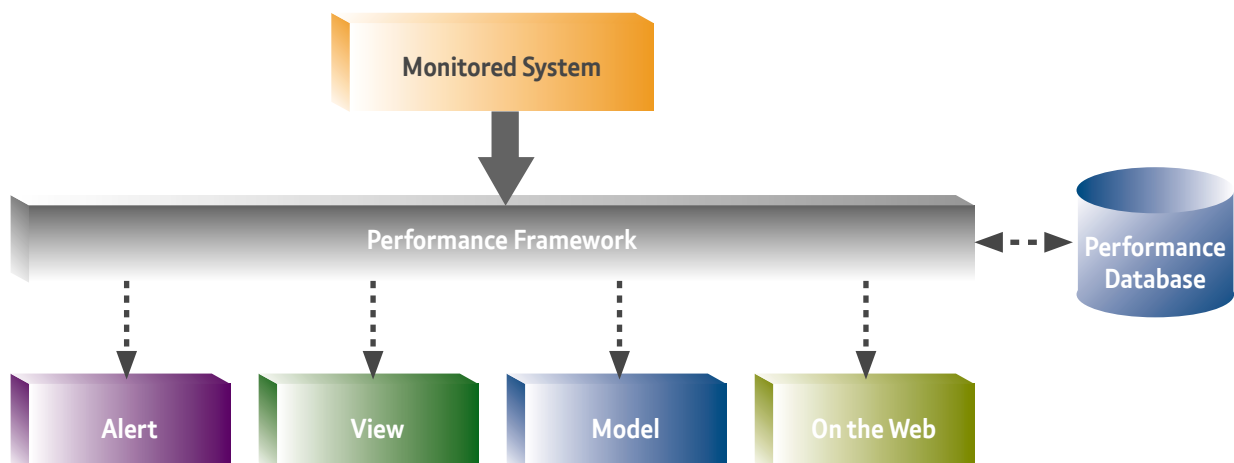
Our solution offering comprises of the tools, methodologies and skill sets. This has the following phases:

- Planning, detect the bottlenecks, diagnose the root cause for the bottlenecks and recommend the changes required. All these are done using the tools packaged with this service offering.
- Capacity planning is done after planting the tools in the system for a period of observations and forecast the sizing required to meet the business growth using modelling software.

- Architecture review and recommendations if necessary to meet the scalability of the IT infrastructure.

## Key Highlights

- Operational and staffing efficiencies
- Central management, administration and training for a fewer number of servers, operating systems and application versions
- Reduced redundancy of data and improved planning
- Simplified vendor management and better alignment with business process

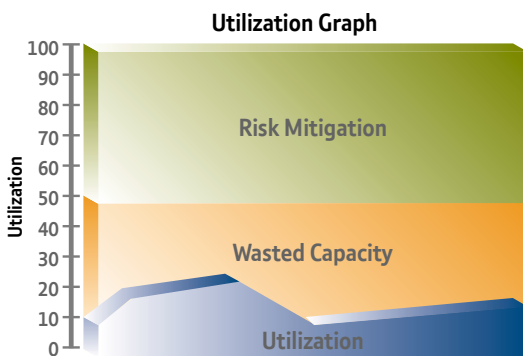


## Key Features

When it comes to assuring your success in performance assessment – servers perform, identify bottleneck that cause poor system performance and forecast the recourse requirements to meet the corporate growth requirements, BT Frontline offers complete best-of-breed software & services that will help to provide guidance, goals, recommendations, advice, resolutions, scripts and best practices with a comprehensive methodology.

### Activities and deliverables

- Project kickoff meeting to establish the goals, schedules for the implementation
- Performance Assessment
- Gather server inventories and configuration information (including the patches) and the architecture
- Collect the data (CPU, memory, disk, and network card) for 24 hours baseline
- Review the baseline data to define current workloads
- Gather data for specific period of time to capture various types of workloads (batch, transaction processing, database queries, and so on)
- Analyse the data and provide the following report
  - Server inventory, configuration and the architecture
  - Highlight the problem areas and identified performance bottlenecks
  - Recommendations



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## Capacity Planning

The performance assessment phase of this solution offering. The second phase measures the growth potential of existing servers based on workloads profiles, expected growth and business changes. Our capacity planning experts can model the system and determine hardware alternatives by testing various “what-if” scenarios:

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- Collect the data (CPU, memory, disk, and network card) for 24 hours baseline
- Review the baseline data to define current workloads
- Gather data for specific period of time to capture various types of workloads (batch, transaction processing, database queries, and so on)
- Analyse the data
- Perform capacity modelling
- Develop a capacity plan based on expected growth
- Document the following report
  - Server inventory, configuration and architecture
  - Highlight the problem areas and identified performance bottlenecks
  - Resource consumption by workload type and overall resource loading
  - Any capacity issues based on future business needs and recommendations to achieve the same

## Architecture Review

On completion of performance assessment and capacity planning, the architecture will be reviewed. This can help to determine whether any performance improvements need to be made and also decide whether the current servers need to be consolidated in order to meet the future growth requirements instead of investing on the new hardware procurements. As a result, you can avoid over spending and hence to reduce the TCO.

- Document the following
  - Current architecture
  - Proposed architecture
  - Servers that can be consolidation
  - Project plans with budget to achieve the above the proposed architecture and consolidation

For more information, please contact our sales hotline at (65) 6490 4884 or email, [sales@frontline.com.sg](mailto:sales@frontline.com.sg).