IBM Spectrum LSF Process Manager

Design, document and run complex computational workflows

Highlights

- Quickly design complex distributed workflows
- Develop repeatable best practices
- Run critical workflows with confidence
- Improve process reliability

IBM® Spectrum LSF Process Manager enables you to design and automate computational or analytic processes, capturing and protecting repeatable best practices. Using an intuitive graphical interface, you can easily document workflow steps and dependencies, and then automate lengthy, repetitive tasks that are prone to human error. Users can easily access documented flows without needing to understand the details. With IBM Spectrum LSF Process Manager, you can boost user productivity, reduce run times and increase overall process reliability.

Run critical distributed workflows with confidence

Integrated with the resource-aware workflow management capabilities of IBM Spectrum LSF, IBM Spectrum LSF Process Manager gives you the tools to run and manage business-critical workflows on a shared, distributed compute environment. Technical users will appreciate the XML-based file formats and the rich command set that allows them to trigger time-dependent flows and manage those flows using a scriptable interface as an alternative to the graphical environment.

Enhance user productivity

IBM Spectrum LSF Process Manager can help enhance user productivity with the web-based Flow Editor, which is available with IBM Spectrum LSF Application Center (Figure 1). The center provides an integrated environment for flow management that consolidates flow and job concepts, and applies consistent terminology to previously disparate tasks. The result is a more streamlined, consistent user experience.

The web-based interface further boosts productivity. Users can submit and visually monitor workflows from any device with a browser.

Simplify your environment

Today, many engineering and analytic workflows are controlled by brittle, complex scripts that have evolved organically over many years. Often, the logic within the scripts is difficult to understand, and organizations are reluctant to risk modifying scripts. Consequently, the organization becomes less agile.

With IBM Spectrum LSF Process Manager, processes that were previously described by complex scripts are described visually as workflows within the Flow Editor. The Flow Editor workflows become self-documenting so the logic is easier to follow, and changes to the process can be made easily. This means workflows developed in IBM Spectrum LSF Process Manager become simpler and more cost effective to maintain.

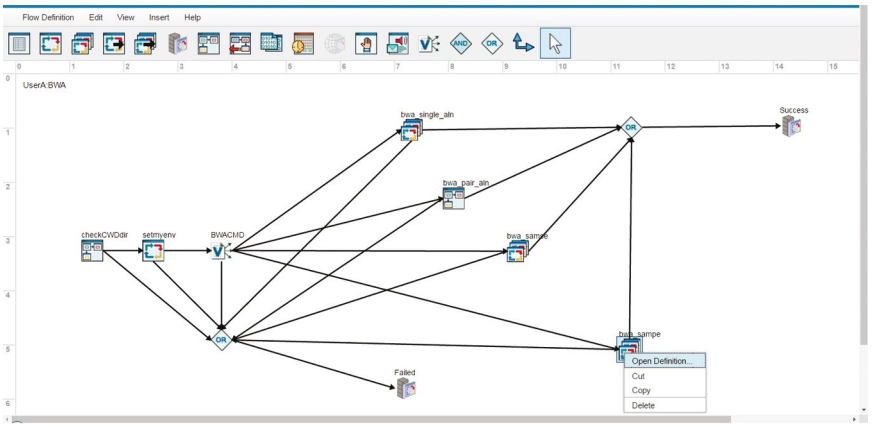

Figure 1. Web-based Flow Editor for integrated flow management and enhanced productivity.

Assure process reliability

By incorporating sophisticated error handling and conditional logic, IBM Spectrum LSF Process Manager helps eliminate the most probable cause of failure—human error. Once a workflow is started, you can move to the next task knowing the flow will complete as planned, regardless of unanticipated hardware or software failures. If there are failures it cannot resolve, IBM Spectrum LSF Process Manager can send you alerts by email or pager, or raise the alarm through existing monitoring and management systems. IBM Spectrum LSF Process Manager combines sophisticated exception handling, the inherent reliability of IBM Spectrum LSF, and automated and transparent failover capabilities to help ensure that workflows complete without manual intervention.

Gain built-in workflow scalability

As nodes are added to a shared cluster, workflows can scale dynamically and seamlessly without the need to modify workflow designs. You can run multiple workflows with different project or business priorities concurrently, governed by sharing policies in IBM Spectrum LSF that help ensure resources are shared appropriately and allocated according to business need.

Why IBM?

IBM Spectrum Computing offers a comprehensive portfolio of software defined infrastructure solutions designed to help your organization deliver IT services in the most efficient way possible, optimizing resource utilization to speed time to results and reduce costs. These offerings help maximize the potential of your infrastructure to accelerate your analytics, high-performance computing (HPC), Hadoop, Apache Spark and cloud-native applications at any scale. The core value of the portfolio is simplifying simulations and analysis to help you uncover insights into your business or science and get higher-quality products to market faster.

For more information

To learn more about IBM Spectrum LSF Process Manager, contact your IBM sales representative or IBM Business Partner, or visit: **ibm.com**/systems/spectrum-computing/products/lsf/resources.html

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