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(57) Abstract :

The present invention relates to efficiently reserving resources in a distributed environment. The invention encompasses methods, systems, and computer-readable media for optimizing the allocation of resources across multiple nodes in a distributed system. By continuously monitoring resource utilization and analyzing historical patterns, the invention predicts future resource requirements. Dynamic allocation of resources based on real-time workload demands and predicted needs ensures optimal resource utilization while minimizing waste. The proposed invention enhances the efficiency, performance, and cost-effectiveness of distributed environments by intelligently managing resource reservations to meet the demands of various workloads.

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