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RESEARCH ARTICLE

A Novel Resource Distributed Discovery and Management in Grid Computing

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Abstract— In grid-computing environment the computer resources are shared under the grid nodes. Resource discovery is an important process for finding suitable nodes that satisfy application requirements in grid environment. In most of the existing resource discovery mechanisms rely mainly on recent observed resource capacities of individual nodes to make their deployment decision based on current status of the nodes have severe limitations to achieve scalability because of the presence of internodes dynamism in addition to the internodes heterogeneity. Individual nodes have widely varying resource capabilities due to varying loads, network connectivity, churn, or user behavior. Besides internodes heterogeneity, many of these systems also show a high degree of internodes dynamism, so that selecting nodes based only on their recently observed resource capacities can lead to poor deployment decisions resulting in application failures or migration overheads.

Key Terms: - Grid computing; Resource discovery

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