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(57) Abstract :

The invention proposes a comprehensive system (100) designed to facilitate seamless session migration within a content-centric network (CCN) is strategically composed of three core components. The session migration manager (102) stands as the proactive sentinel, equipped to vigilantly detect shifts in network topology and seamlessly trigger migration processes, safeguarding ongoing session continuity. The cache manager (104), takes control of frequently accessed data, orchestrates an efficient storage mechanism that curtails the need for extensive data transfers during migrations. This not only minimizes data latency but also optimizes memory utilization, contributing to enhanced network efficiency. Working in synergy, the pre-fetching manager (106) assumes the role of a forward-thinking data steward. It anticipates forthcoming data requests and preemptively retrieves such data, thereby considerably curtailing delays in data access and conserving valuable network bandwidth.

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