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(57) Abstract :

A system (100) and a method (200) for cloud-based network segmentation is provided. The system (100) leverages virtualized network operations, reducing hardware expenses and simplifying network management. The system (100) provides ability to establish and maintain network segments in a cloud-based environment, with which administrators can isolate resources, enforce access control policies, and prevent unauthorized access. Real-time monitoring and analytics further enable quick identification and resolution of security threats. The system's scalability, cost reduction, improved network performance, and industry applicability make it a valuable asset for organizations seeking effective network segmentation and enhanced security in today's digital landscape.

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