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VIRTUAL NETWORKED INFRASTRUCTURE FOR AGENT-BASED ELASTIC HYBRID CLOUD CONCURRENT SCHEDULING

1 C.Punitha, M.A.M College of Engineering, Tiruchirapalli, punithasri23@gmail.com [1]

2 S. Nagasundari, Associate Professor, M.A.M College of Engineering, Tiruchirapalli, nihari1422@gmail.com[2]

ABSTRACT

The goal of this thesis is to enable the provisioning and instantiation of this type of more complex resources while empowering tenants with control and management capabilities and to enable the convergence of cloud and network services. To reach these goals, the thesis proposes mapping algorithms for optimized in-data center and in-network resources hosting according to the tenants' virtual infrastructures requests. As cloud computing and network virtualization paradigms become more accessible and popular, a natural and expected evolution is to extend the concepts of service, platform and infrastructure as a service to the on demand provisioning of cloud networking services to support connectivity between virtual machines, resources and services beyond what is currently possible in clouds. A slice is defined as a virtual infrastructure with compute, communications and storage resources. A resource is defined as a concrete resource such as real world resources including virtual machines, networks, services, etc. In hybrid clouds, resources are acquired from both private and public clouds and need to be combined (connected) into a dedicated infrastructure to support an information system from a private enterprise or public body for instance.

Keywords: Iris, Fingerprint, Face reorganization, one time password, key aggregation.