Think Different: Serverless Applications via Names Data

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Abstract: Network applications are commonly implemented using centralized servers. In this talk we take multiuser text chat as a simple case study to explore the design approach of server-less applications in Named Data Networking. Because all data have unique names in an NDN network, each chatroom participant can compute a digest of the names of the latest data set and exchange this digest to synchronize their view on the state of the chatroom. We show that the resulting design is more robust and efficient compared to the traditional centralized implementations.