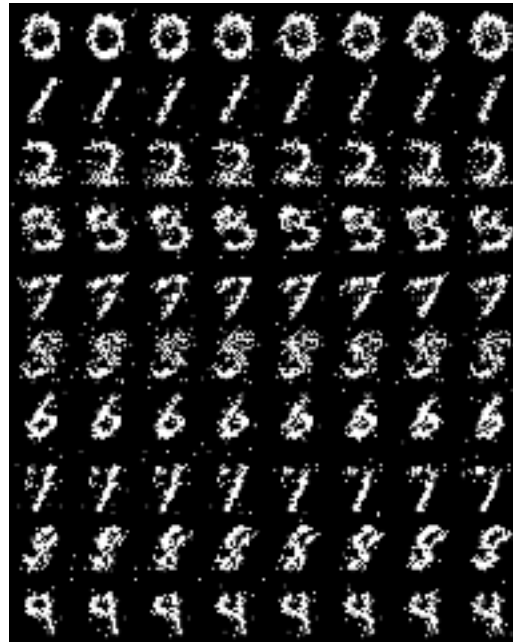


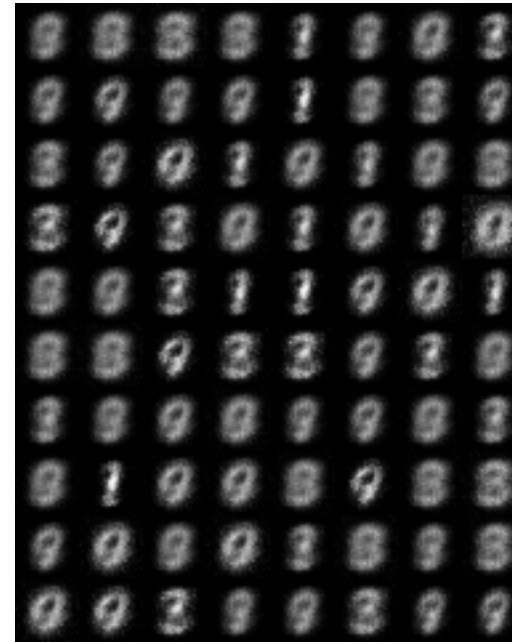
Synthetic Samples (MNIST)



Original samples



RBM samples



VAE w/o clustering



VAE with clustering

20 SGD epochs (epsilon=1.74)

Agenda

1. Training (Distributed) ML Models with Privacy
2. Private Data Release with Generative Neural Networks
3. Privacy Leakage from Generative Models as a Service
4. Privacy Leakage in Collaborative/Federate ML