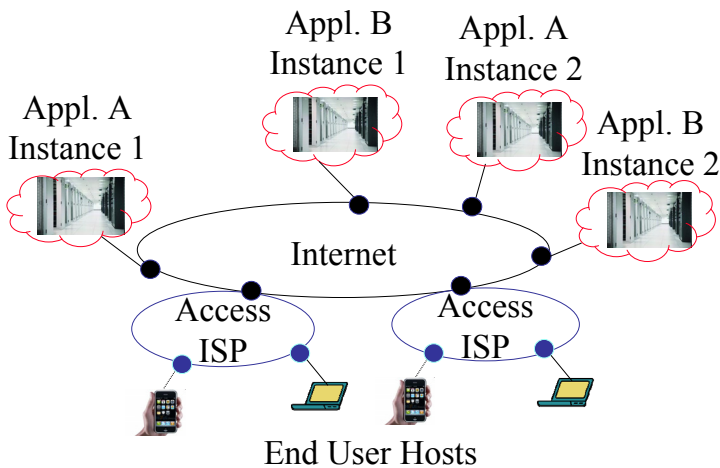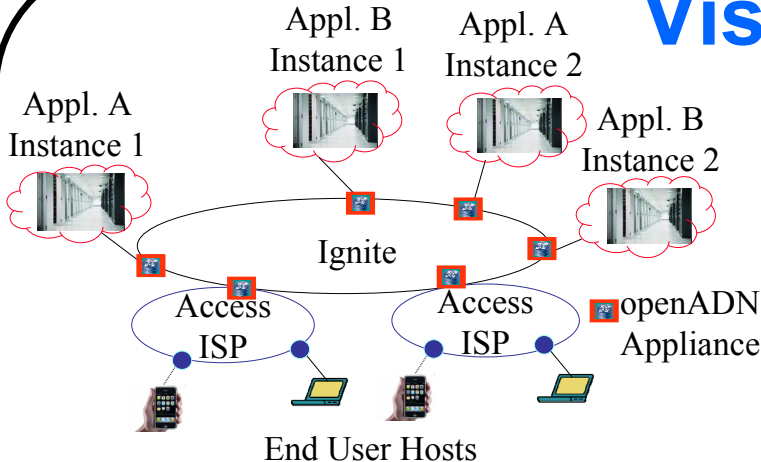# Cloud-Based Distributed High-Speed Application Delivery

Problem Statement

- Most future applications are expected to be cloud based

- Applications will have multiple replications distributed globally

- Will need replication selection, fault tolerance, load balancing, security, …

- Inside datacenters this is done by appliances

Vision

- Open Application Delivery Network (openADN) Service Appliances

- Will allow multiple applications/ enterprises to share Ignite

- Ultra-High Speed
  $\Rightarrow$ Need rule-based customization

- Distributed co-ordination protocol

- **Feasibility**: No changes to Internet. Only edge device/software

- **Impact**: Most enterprises, e.g., Bank of America, Facebook, will benefit

- **Partnership**: Architecture, Implementation, Security experts (3 partners)

Washington University in St. Louis — School of Engineering   IUPUI   Purdue University