

# PlanetLab: A Blueprint for Introducing Disruptive Technology into the Internet

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# Innovator's Dilemma

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- The Internet is an enormous success story
  - commercially
  - impact on our daily lives
  - global reach
- Success has an unexpected cost: *ossification*
  - difficult to deploy disruptive technologies
    - correct vulnerabilities
    - introduce new capabilities

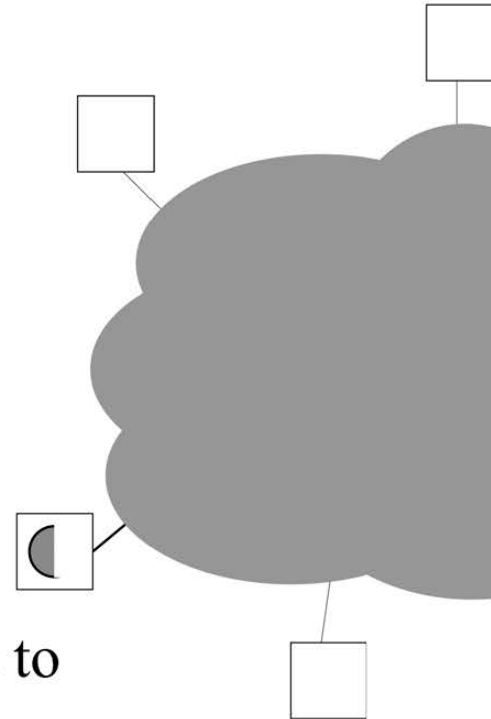
# Today's Internet

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## Best-Effort Packet Delivery Service

### Limitations

- The Internet is “opaque” making it difficult to adapt to current network conditions
- Applications cannot be widely distributed (typically split into two pieces: client and server)



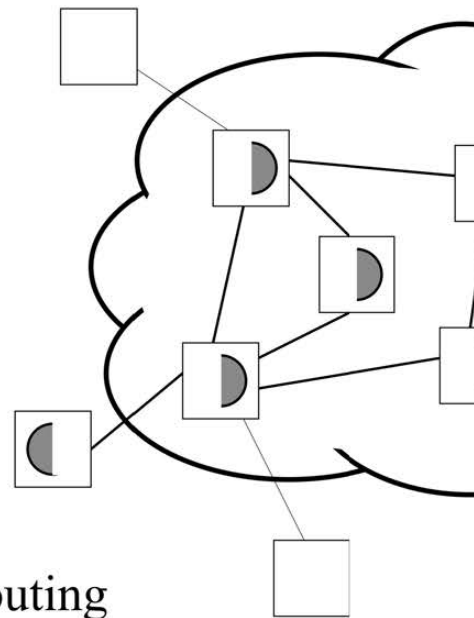
# Tomorrow's Internet

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## Collection of Planetary-Scale Services

### Opportunities

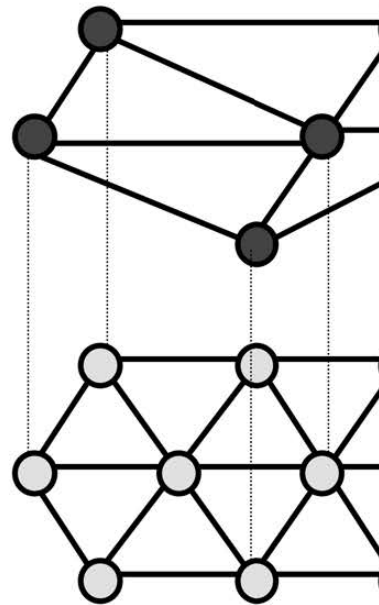
- multiple vantage points
  - anomaly detection, robust routing
- proximity to data sources/sinks
  - content distribution, data fusion
- multiple, independent domains
  - survivable storage



# Evolving the Internet

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- Add a new layer to the network architecture
  - overlay networks
    - purpose-built virtual networks that use the existing Internet for transmission
    - the Internet was once deployed as an overlay on top of the telephony network
- Challenge
  - how to innovate & deploy at scale



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