

Information Protection in Content-centric Networks

Christopher C. Lamb

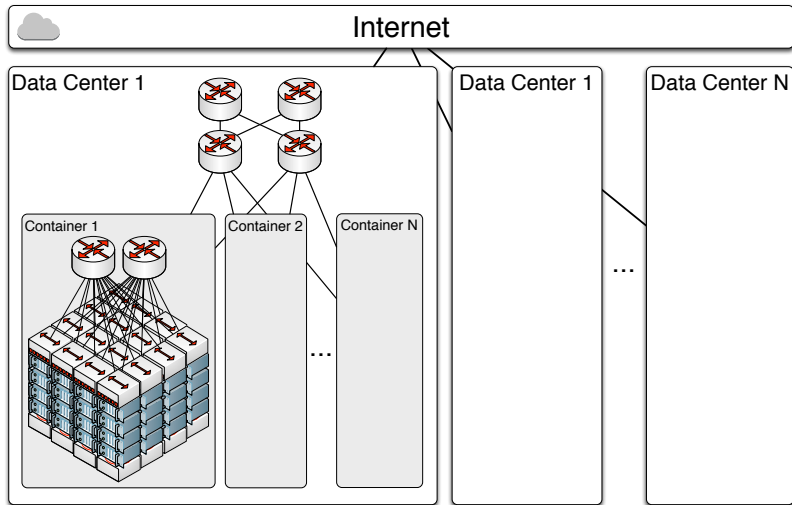
Department of Electrical and Computer Engineering
University of New Mexico

November 6, 2012

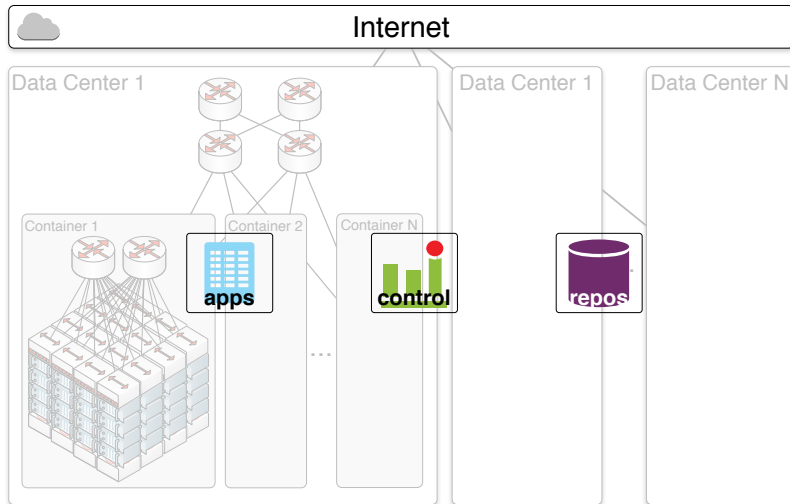


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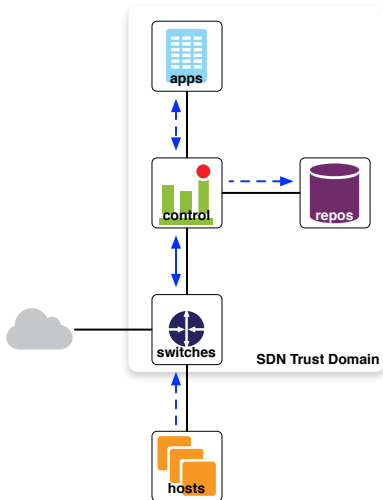
Networks in the Bad Old Days



The Brave New World!



Brave New Implications

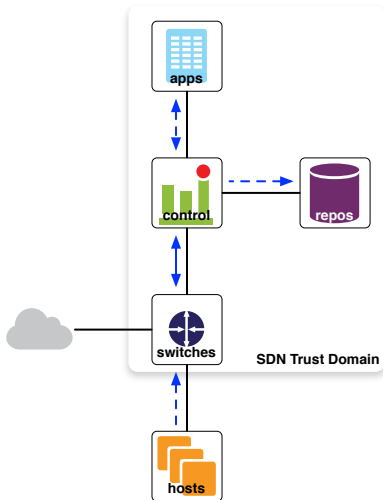


Unintended Results of SDN

Moving to centralized management has profound implications.

- Trust loci provides greater spoofing opportunities
- Smaller number of involved systems refines target space
- Trust concentration leads to larger attack surface
- Single compromise can have outsized effects

Brave New Implications



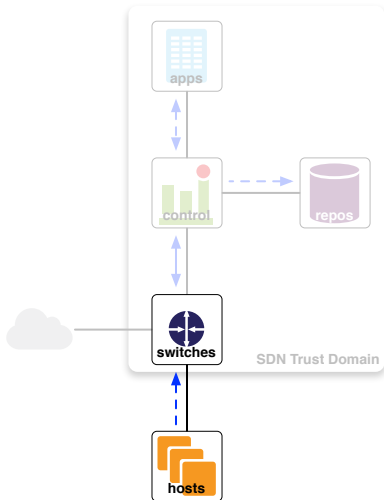
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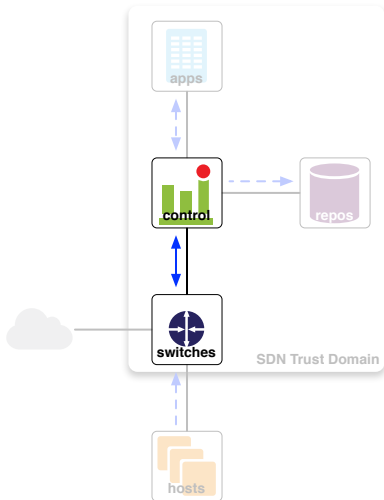
host \longleftrightarrow switch

- 1
- 2



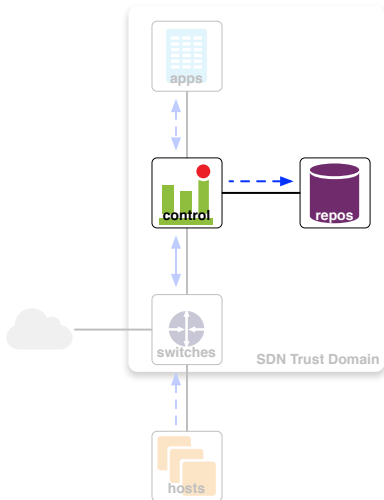
switch \longleftrightarrow controller

- 1
- 2



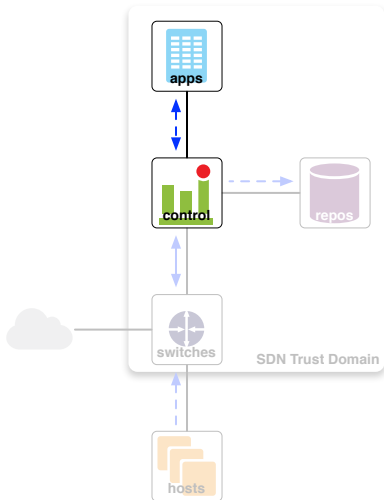
controller \longleftrightarrow repository

- 1
- 2



controller \longleftrightarrow application

- 1
- 2



Questions? Comments?