

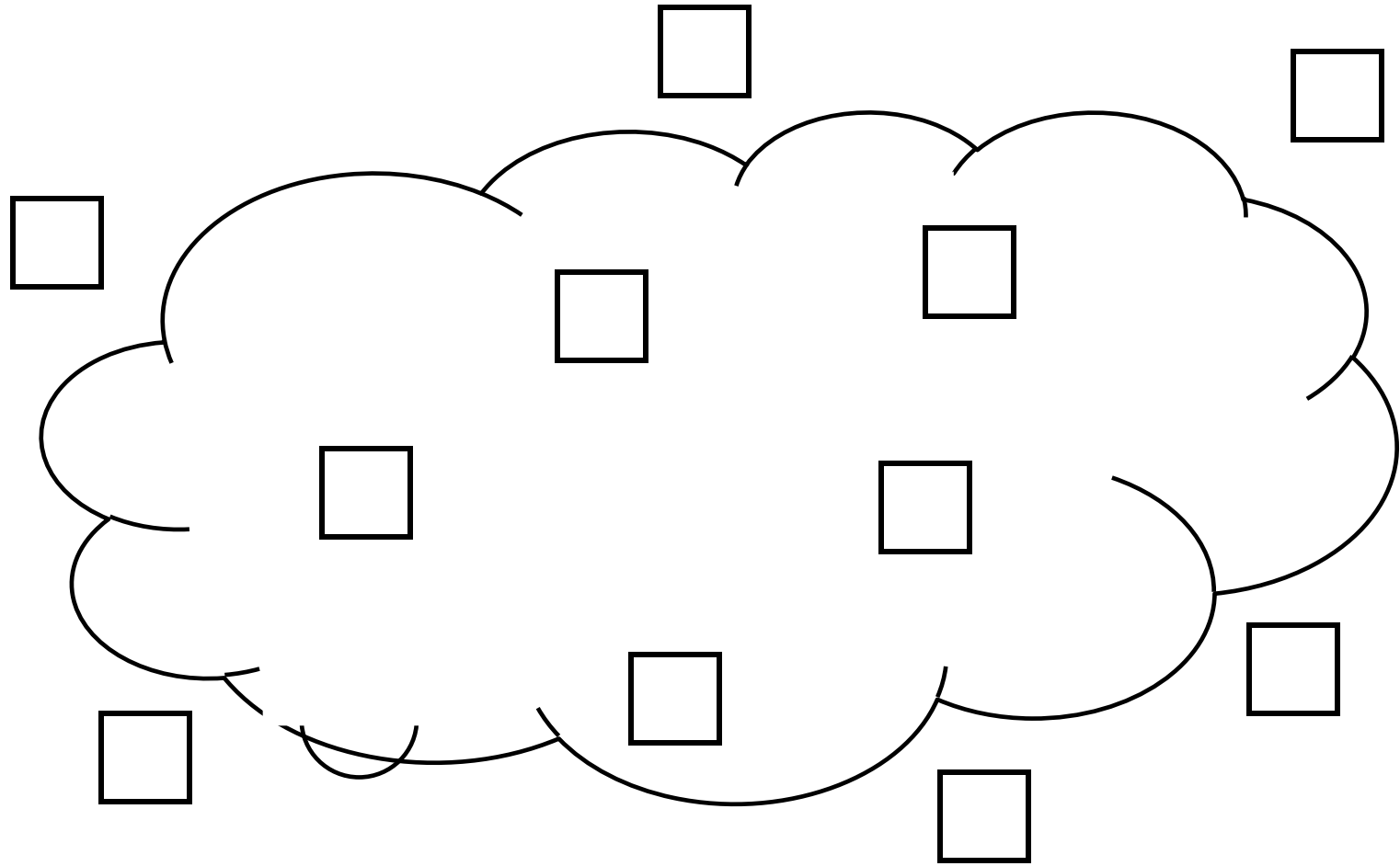
End-to-End Stitching: The Loyal Opposition

Larry Peterson
Princeton University

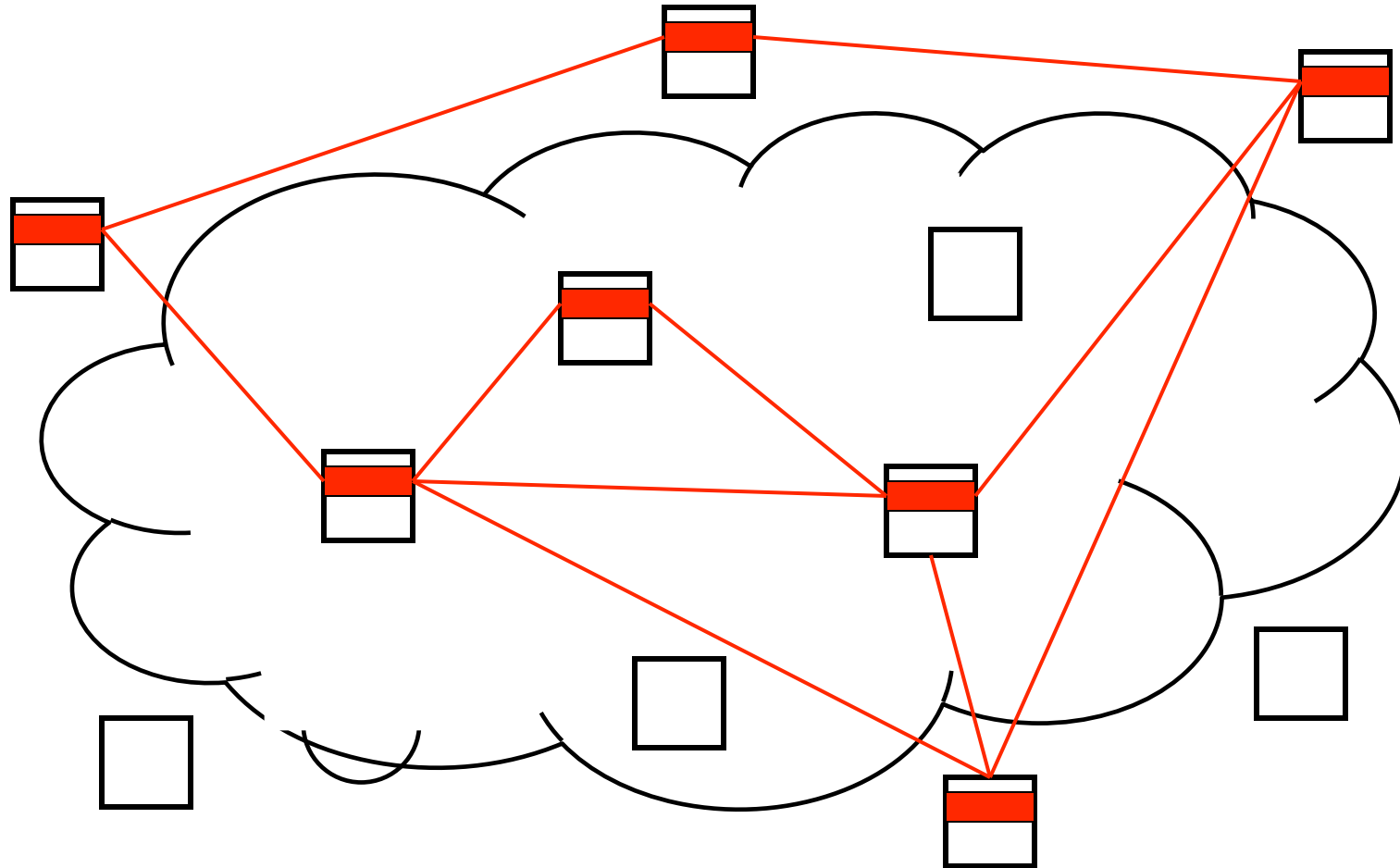
Observations

- Concatenating Layer 2 networks – while staying entirely within Layer 2 – is hard.
- We already have a perfectly good e2e stitching mechanism – it's called IP.
- Tunneling Layer 2 circuits (e.g., GRE) over IP over a physical Layer 2 circuit has 98.4% fidelity.
- Global “port” allocation works on the Internet, it will surely work for GENI.

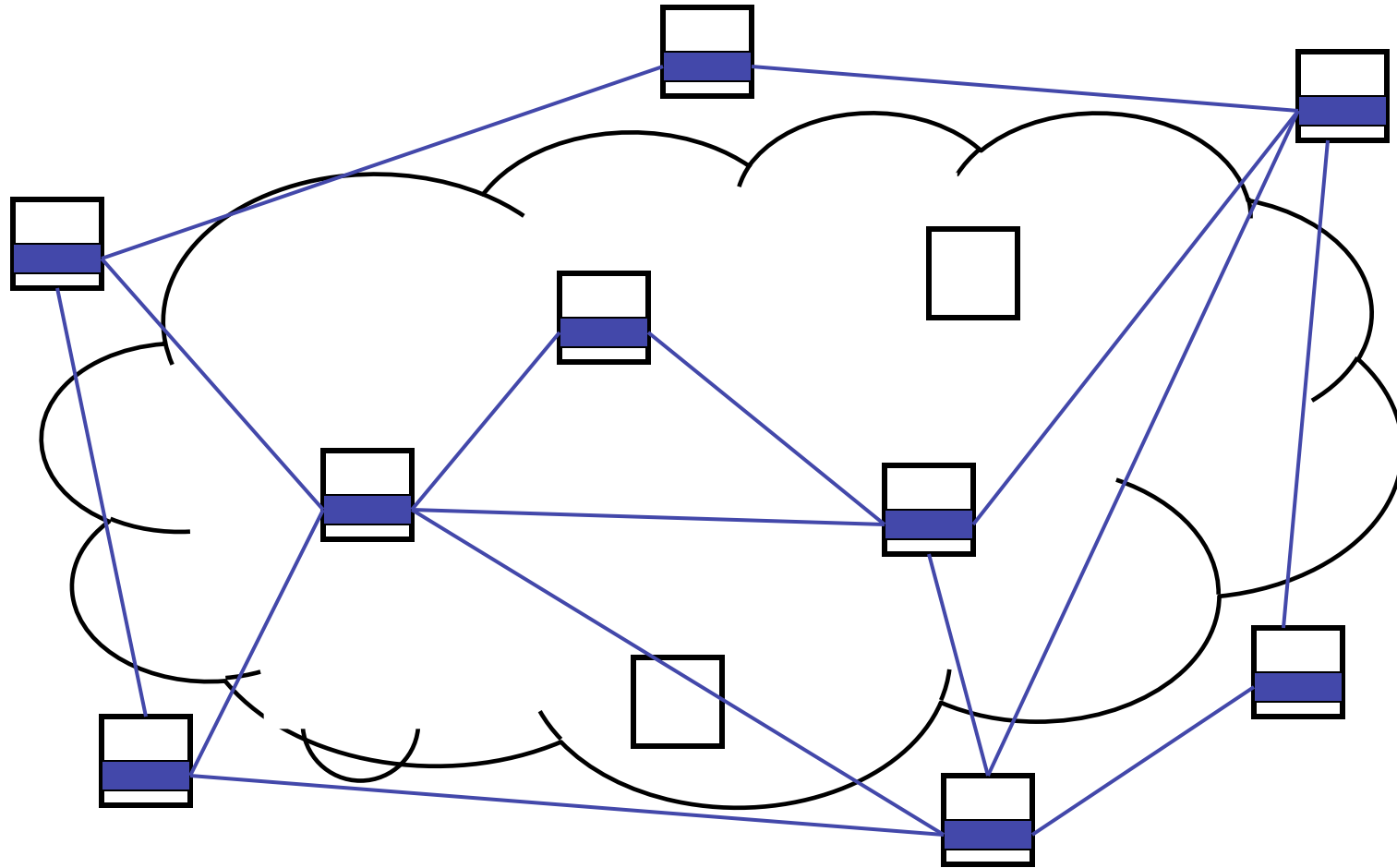
A Bunch of Nodes



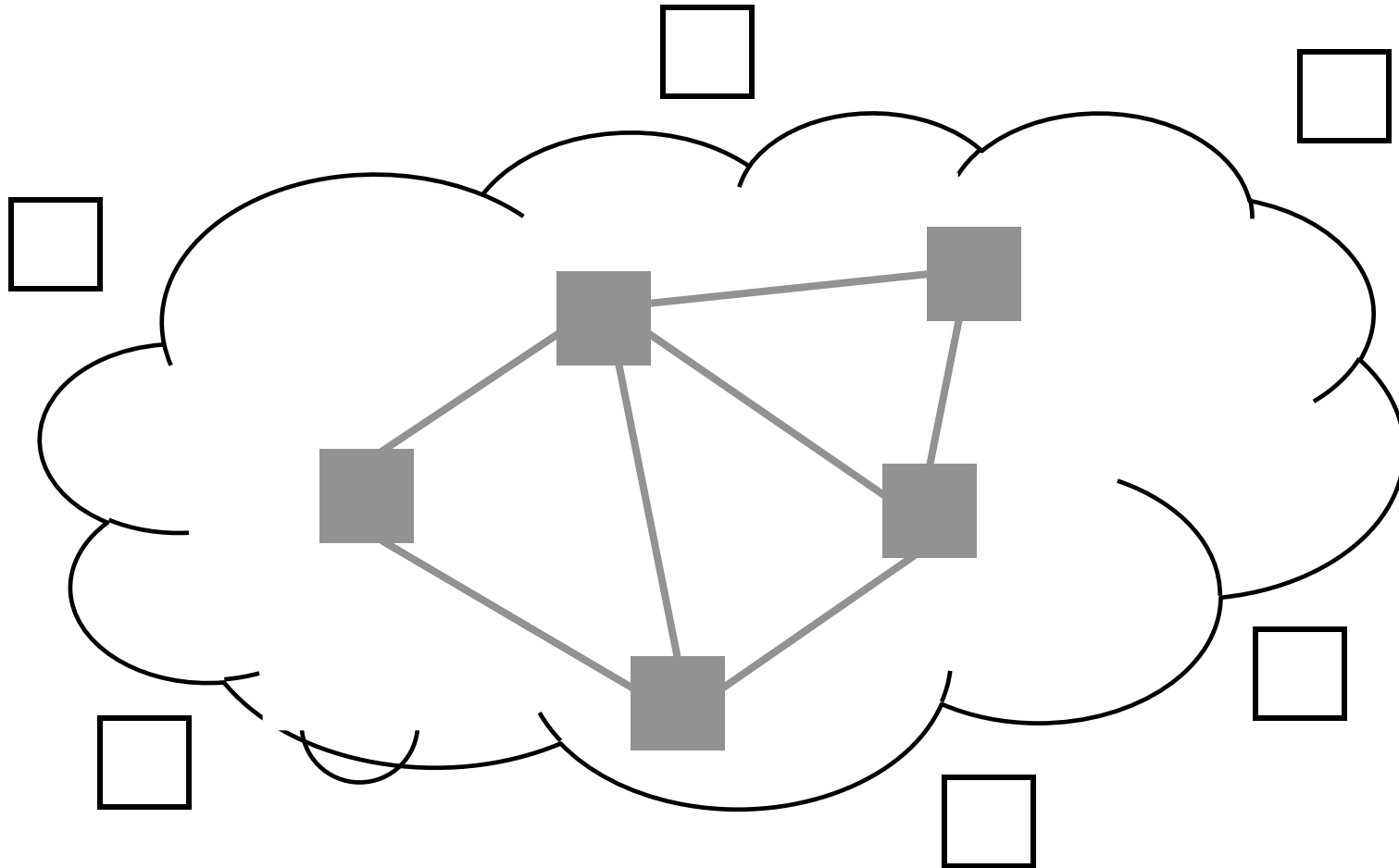
My Slice – My Topology



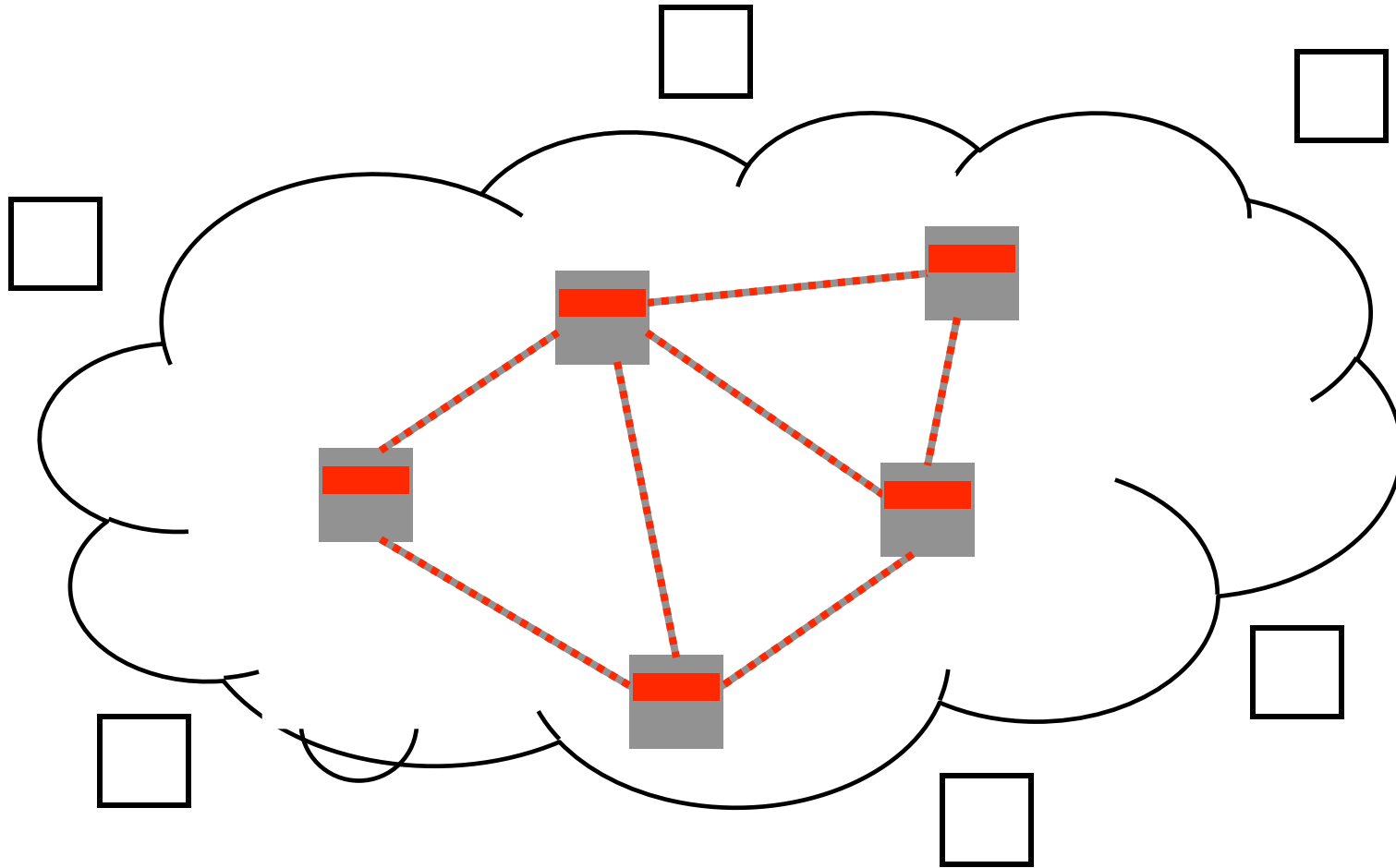
Your Slice – Your Topology



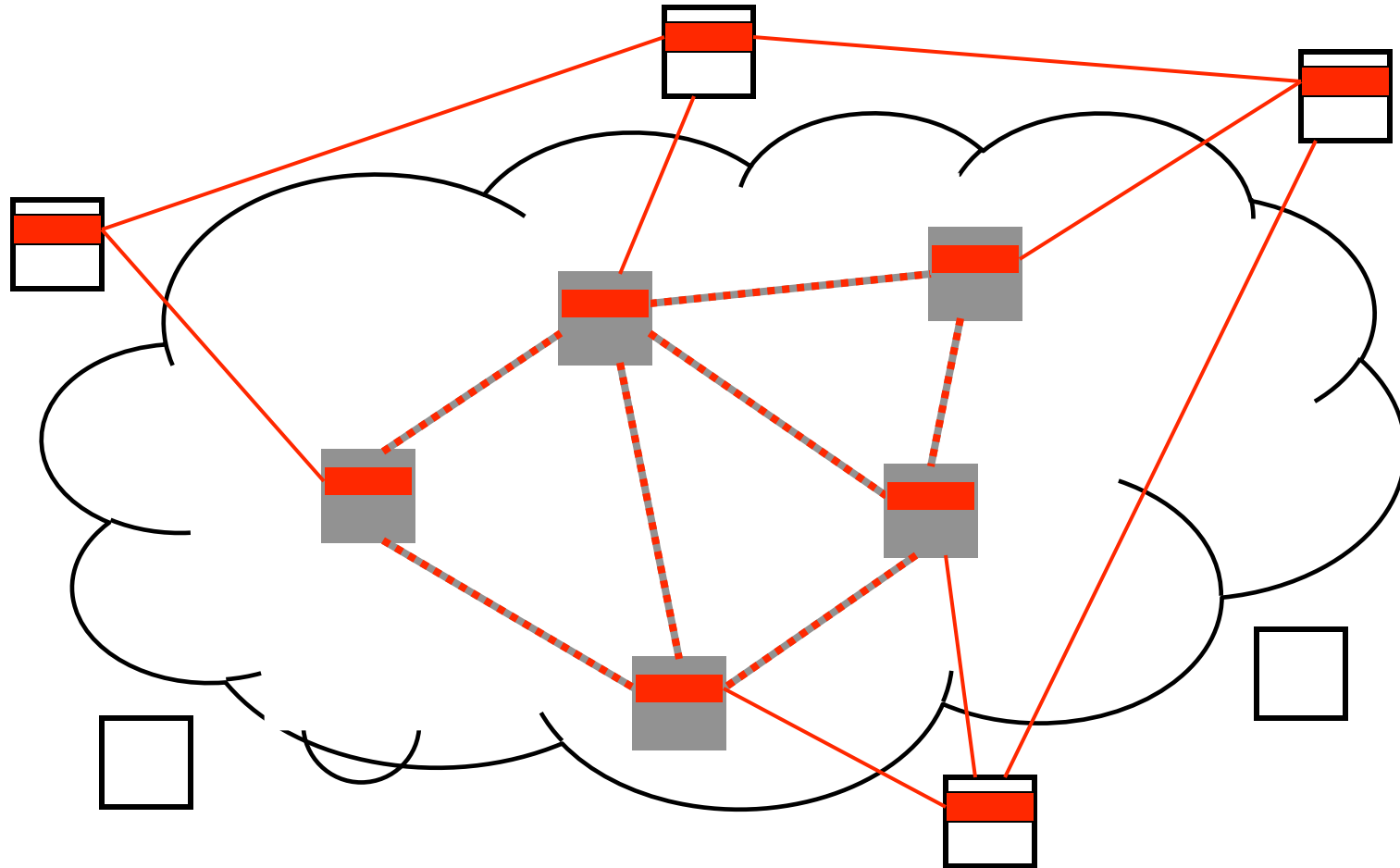
Some Nodes are Special



My Slice is Special



Or Includes a Special Subset



Or Another Special Subset

