



RSpecs: Is there a 5 Minute Version?

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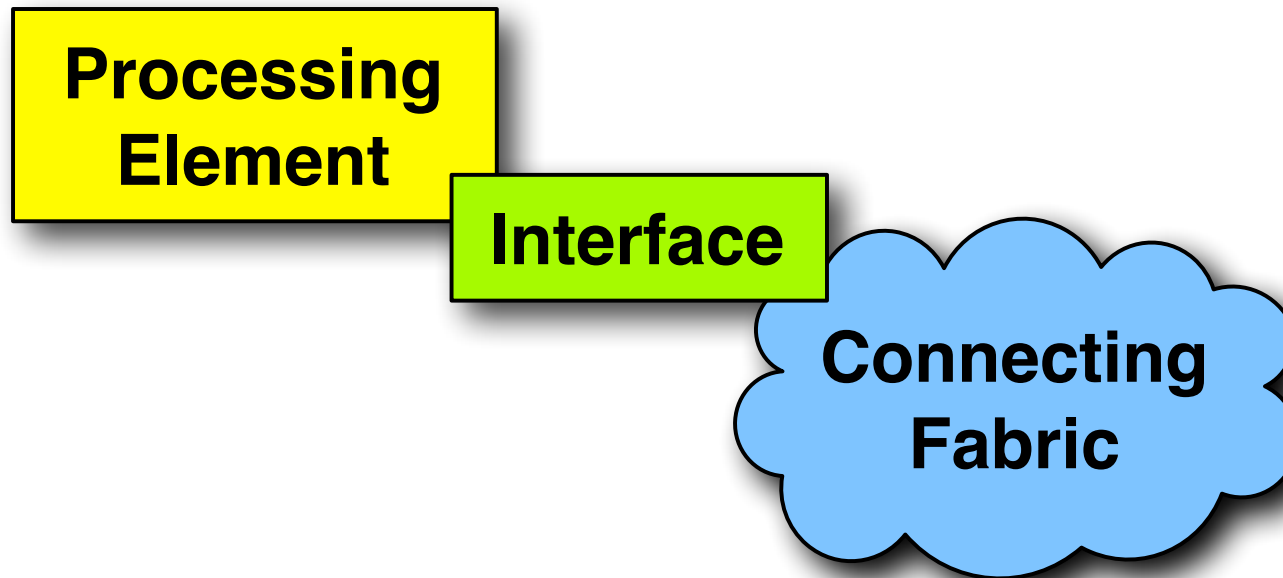
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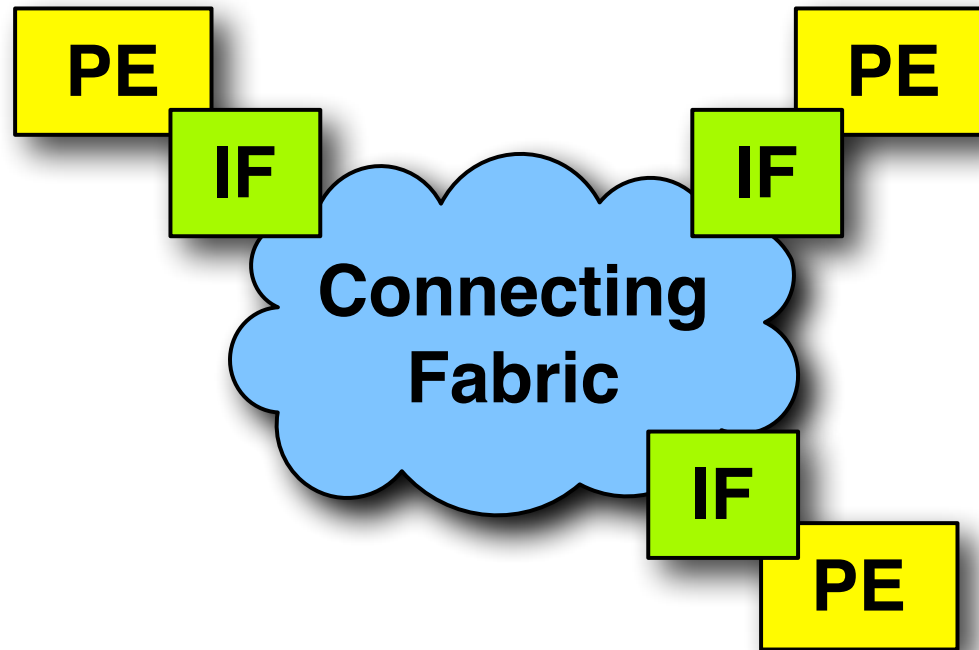
State Government
Victoria



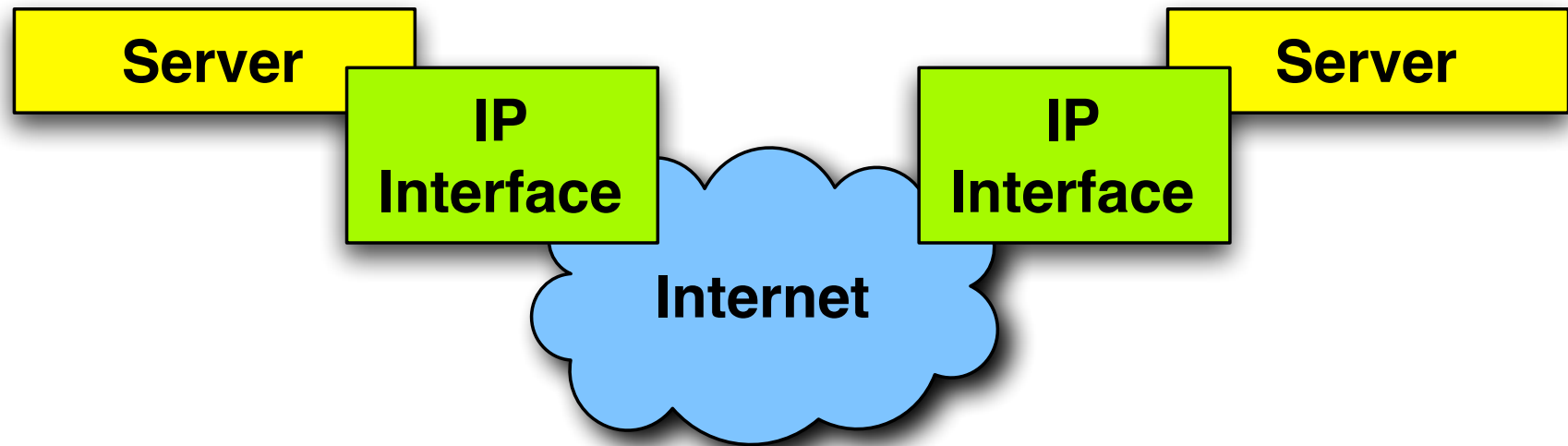
What's the 5 Minute Version of our Model?



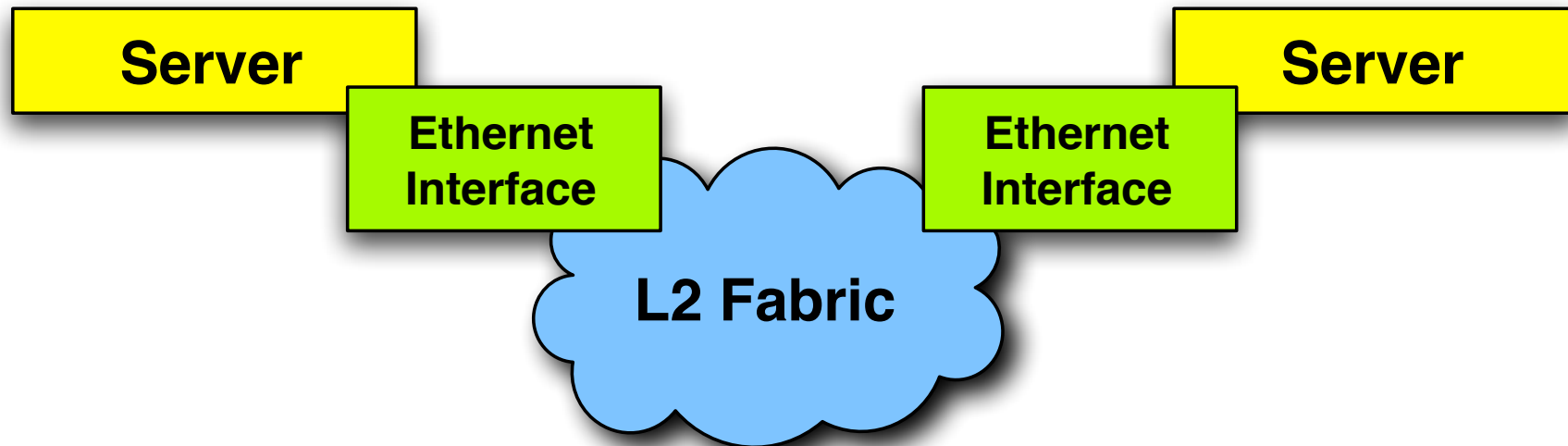
Connecting Many



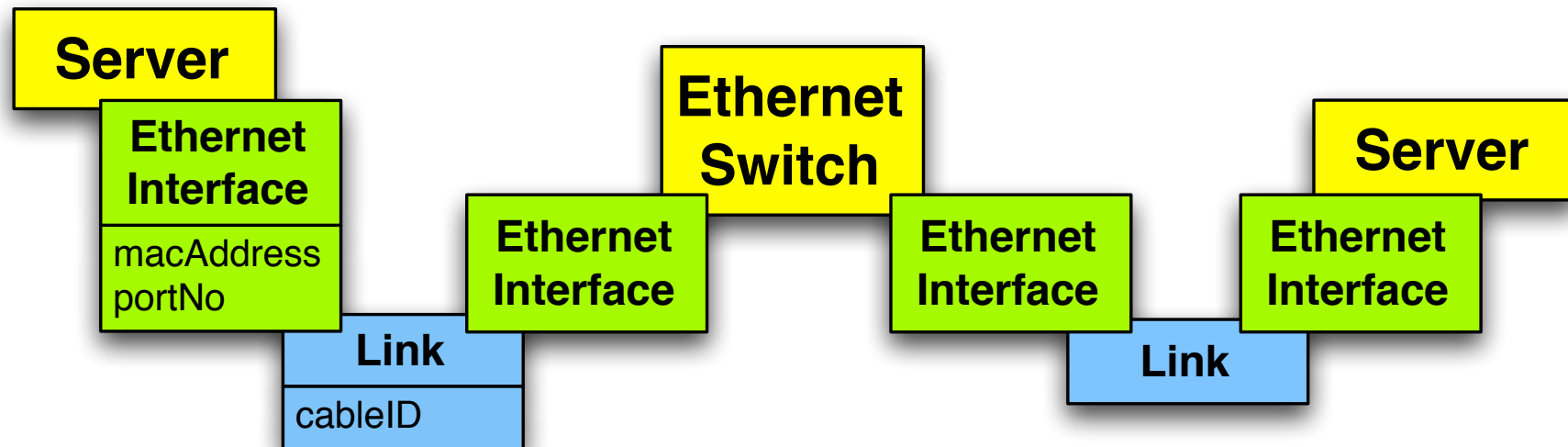
Internet



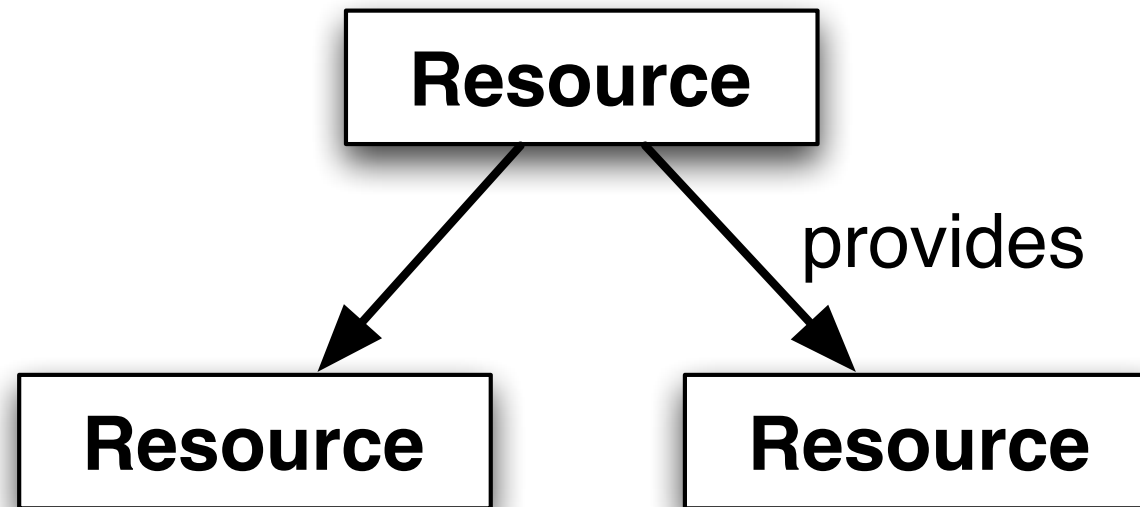
LAN



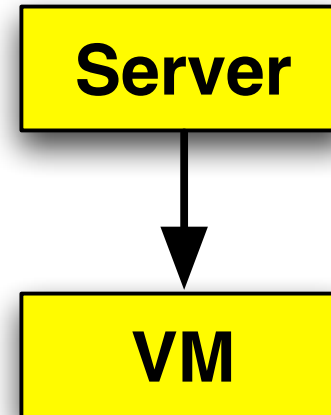
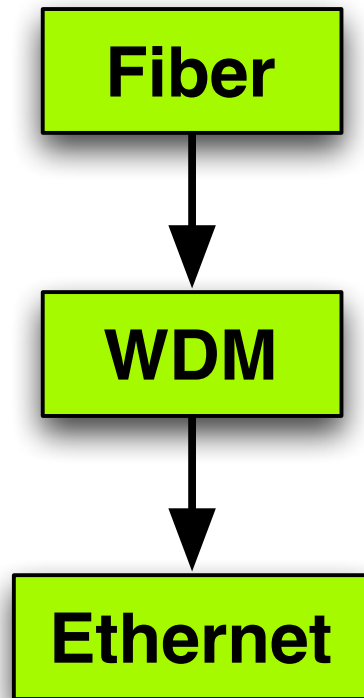
Link: The simplest Fabric



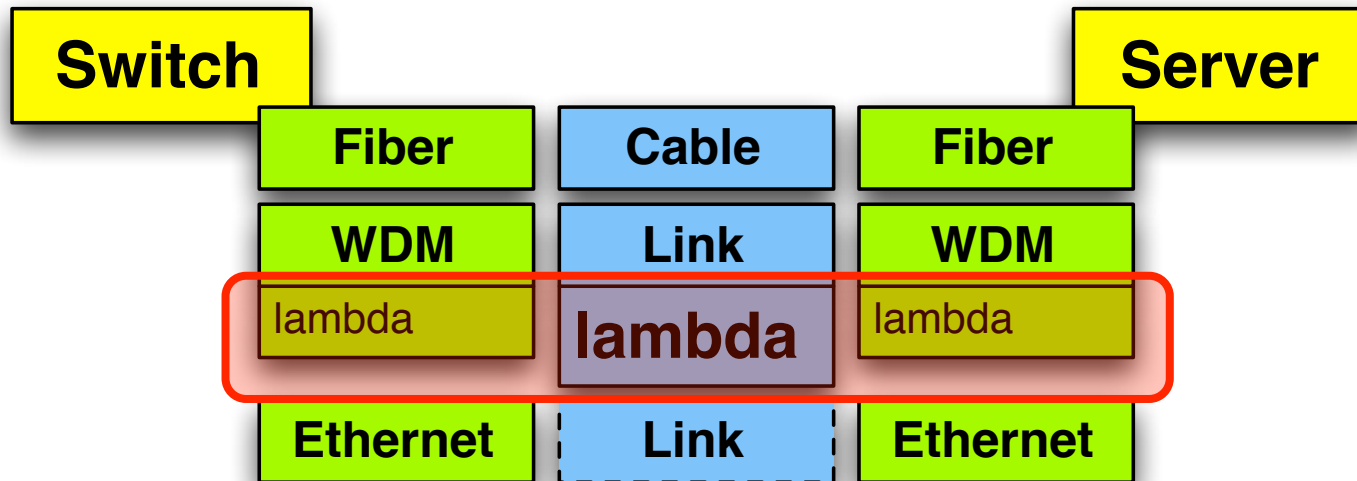
Adaptation



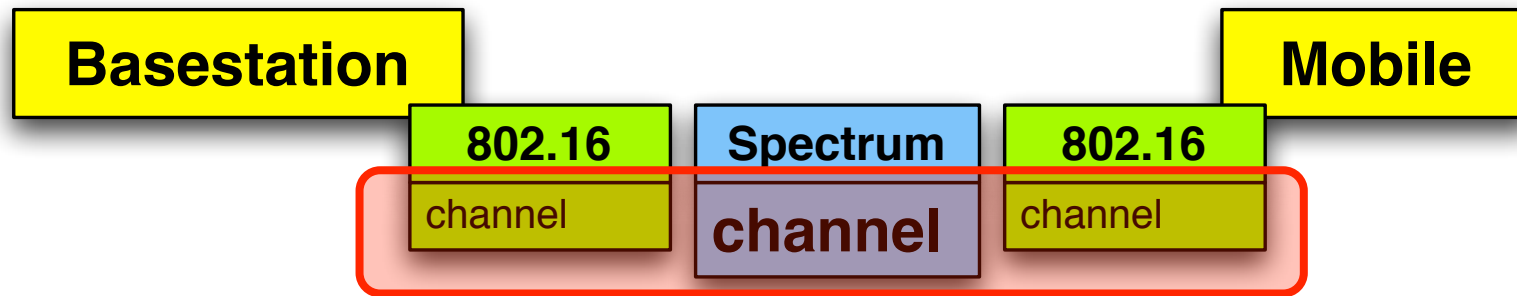
Adaptation Applied



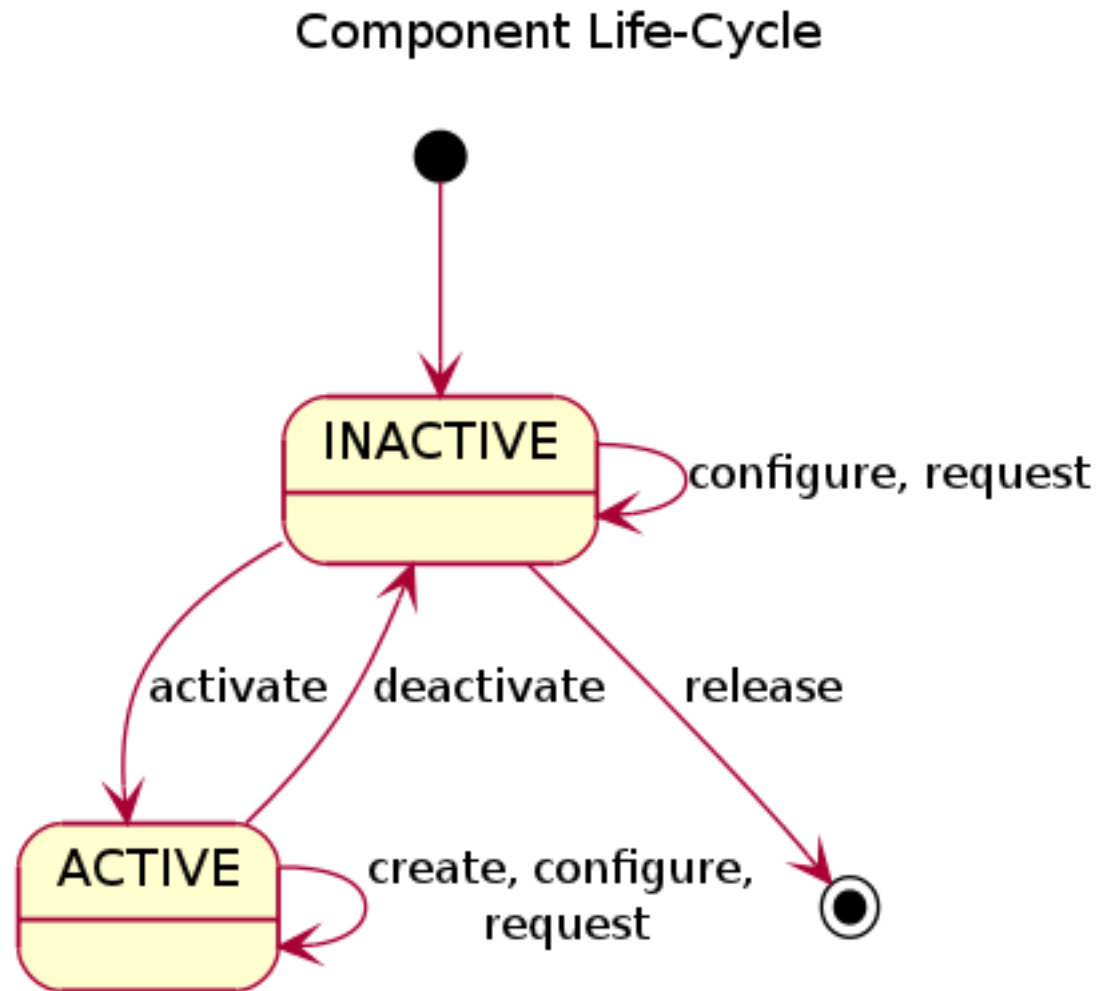
Fabric Properties as Constraint



Fabric Properties as Constraint



Component Life-Cycle



My Basic Mantra

- Need to separate object model from semantic meaning of a specific resource
- Object model should be fairly stable
 - Baked into most software components
 - Defines wire format
 - Change is bad - requires wide-spread modifications
- Semantic meaning (ontologies) captures characteristics and dependencies of our resources
 - Will change regularly
 - Change is a good - indicator of a vibrant community

Additional Challenges

- General Grouping Mechanism
 - We want to work with 1000's of resources
 - Slice is special case
- Measurements
 - Need to refer to the same resources
- Authorization
 - Context of resource creation
 - What do we authorize & how does that relate to other things
- Visibility
 - How to learn “providing” resources in case of problems
- Software-defined Radios
 - Extremely interesting use case



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