Application Deployment to Clouds

or

One Version to Rule Them All

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How it's done now

- Start with base image
- Install application
- Snapshot image
- Spin up new instances from snapshot

Problems

- Different OS platforms are provided by each cloud provider

- Once a snapshot is made, it is difficult (or impossible) to move that image to another provider

- Automation tools can help, but require set up for each cloud environment

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A new approach

- Apply Software Configuration Management (SCM) concepts to managing the entire system

- Version control binary objects

- Use versioned groups of these binary objects to express what belongs in the system

- Build deployment images from these groups

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Questions?