



2018

# Configurations, Personalities, and Stamps

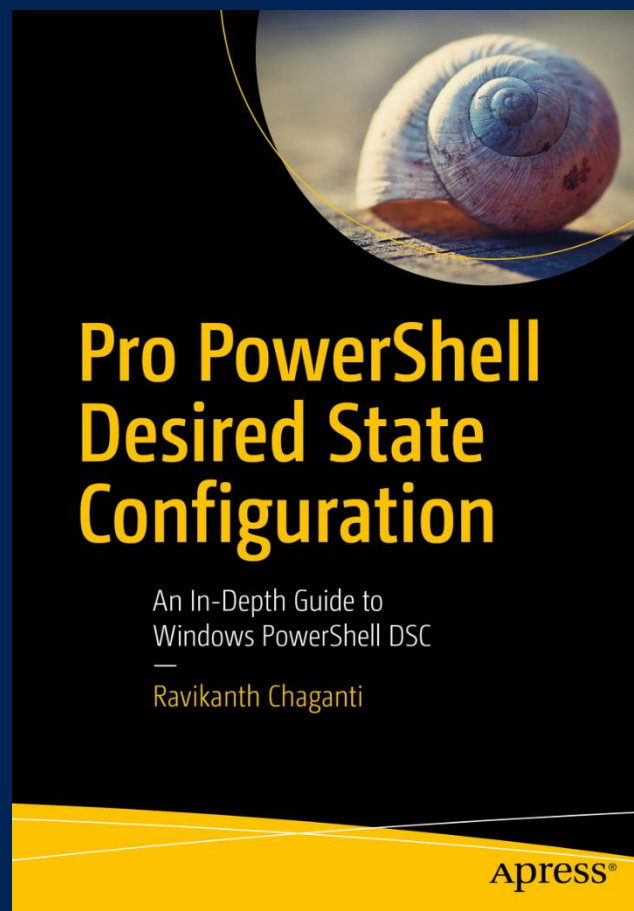
A modular approach to realizing the deployment pipeline



Ravikanth Chaganti

# Agenda

- Motivation
- Concepts
- Big Picture
- Path Forward



# Motivation ...

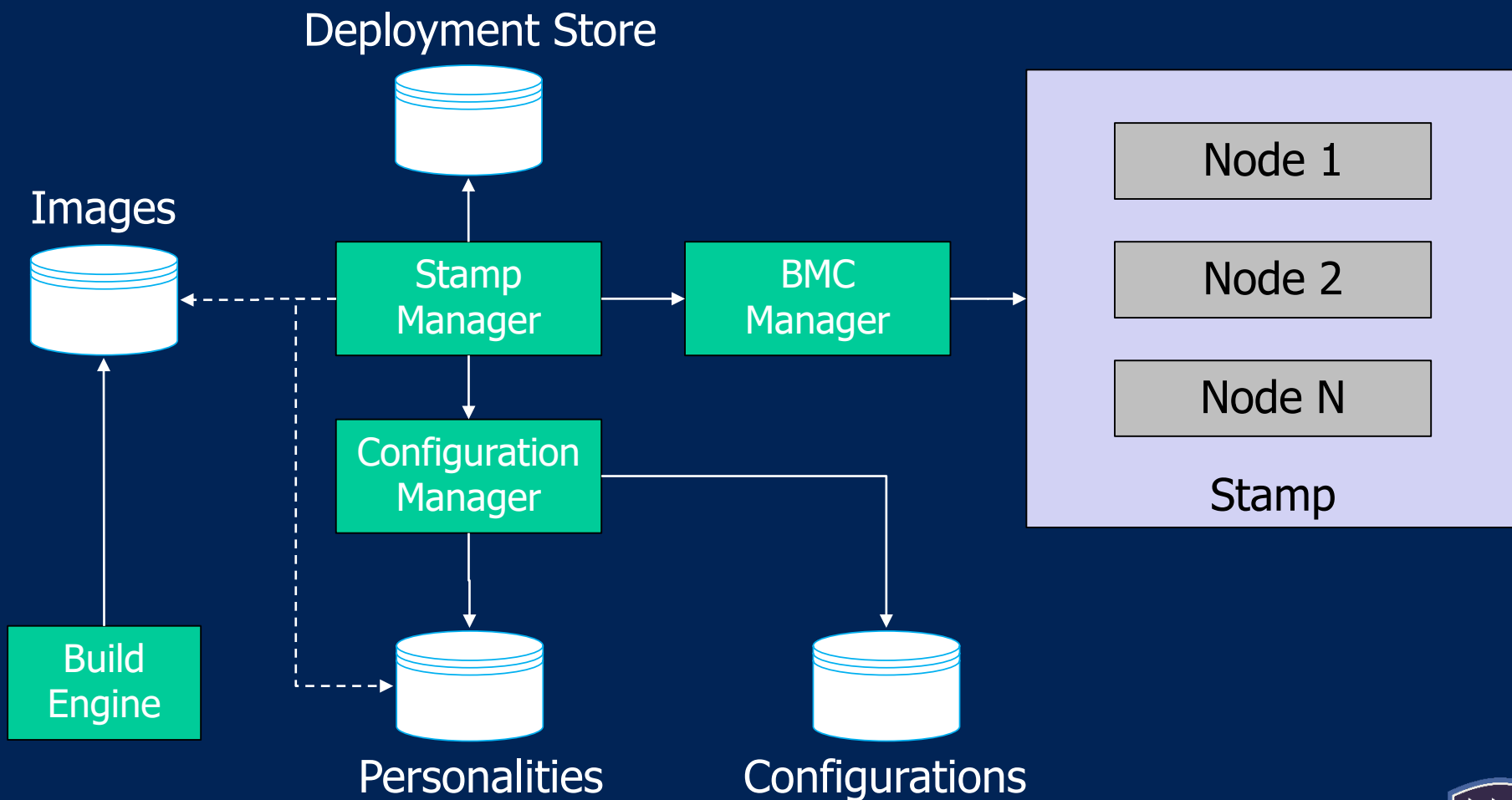


Node 1

Configuration Data

Node N

# Big Picture



# Configurations

## Configurations

C1

C2

C3

C4

CN

- Not just simple DSC configurations!
- Packaged as composite resource modules
  - Discoverability is key!
  - And, they are reusable.
- Not just configurations but cover the entire deployment pipeline

<https://github.com/rchaganti/infrablueprints>

# Personalities

## S2D HCI Primary

C1

C2

C3

C4

CN

## S2D HCI Participant

C1

C2

C3

- Don't confuse with the pet vs cattle thing!
- Personalities are immutable!

# Stamps

- Combine personalities to build to stamps!

S2D HCI Primary

C1

C2

C3

C4

CN

S2D HCI Participant 1

C1

C2

C3

S2D HCI Participant 2

C1

C2

C3



Configuration Data

# Path Forward

- Complete the Stamp DSL!
- Move to a NoSQL database
  - Enable deployment history
- Automate documentation – PlatyPS!?
- Implement REST methods for interaction between the deployment station and nodes
  - Polaris
  - Universal Dashboard
- Reporting!






# Summary

- Using composite resources helps abstract the DSC resource granularity.
- Enables a modular approach to configuring systems in a deployment pipeline.
  - Ability to replace build engine
  - Ability to switch between physical and virtual deployments

**Questions?**

# Next Steps

- Now: 15 minutes
  - Grab a coffee
  - Stay here
  - Change to another room
- DO NOT FORGET
- 
- Ask me questions or meet me in a breakout session room afterwards