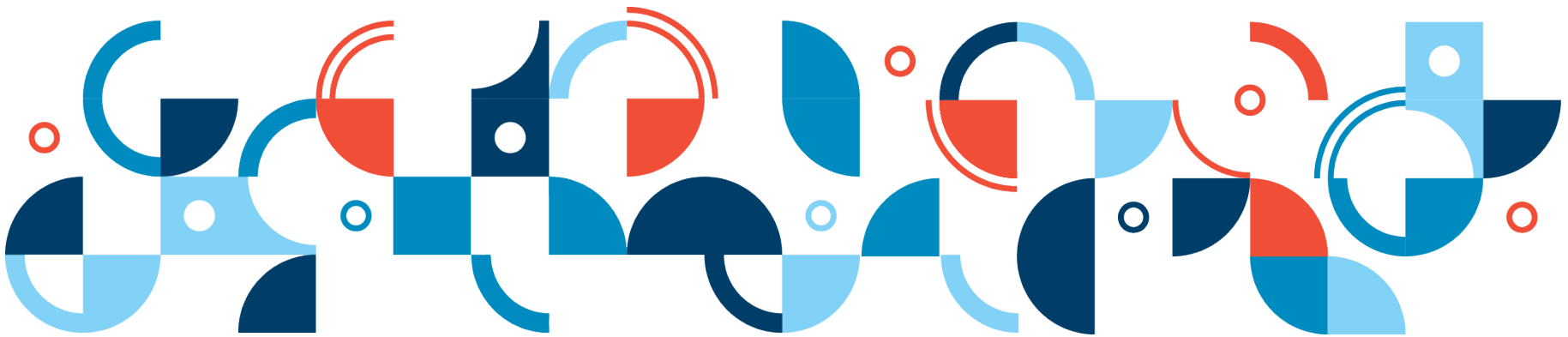


Astrid Kreissig, Senior Technical Staff Member, kloss@de.ibm.com

Software Defined Environments (SDE)



Shift in the Cloud Marketplace – Emergence of new, highly iterative models to deliver customer interaction

Optimization

Reduce Cost, Improve flexibility



Paul the provider

Innovation

Rapidly Add Business Value



Colin the consumer

Software Defined Environment



Cloud Operating Environment

API Economy

Focus on Operational Costs

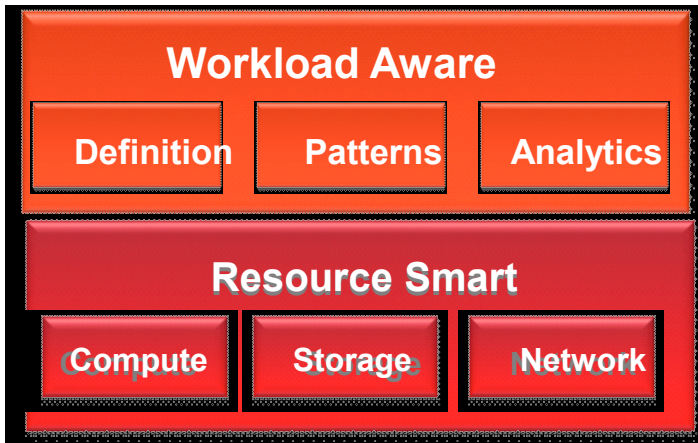
- Consolidation (solutions & infrastructure)
- Operations Automation (reduce skills & risk)
 - Move from manual policy enforcement to analytics driven enforcement & optimization

Focus on Speed and Agility

- Assemble solutions from verified software components & services
- Fast deployment & redeployment of infrastructure resources using Software Defined Environments
- Dev / Ops process enables fast iterative development

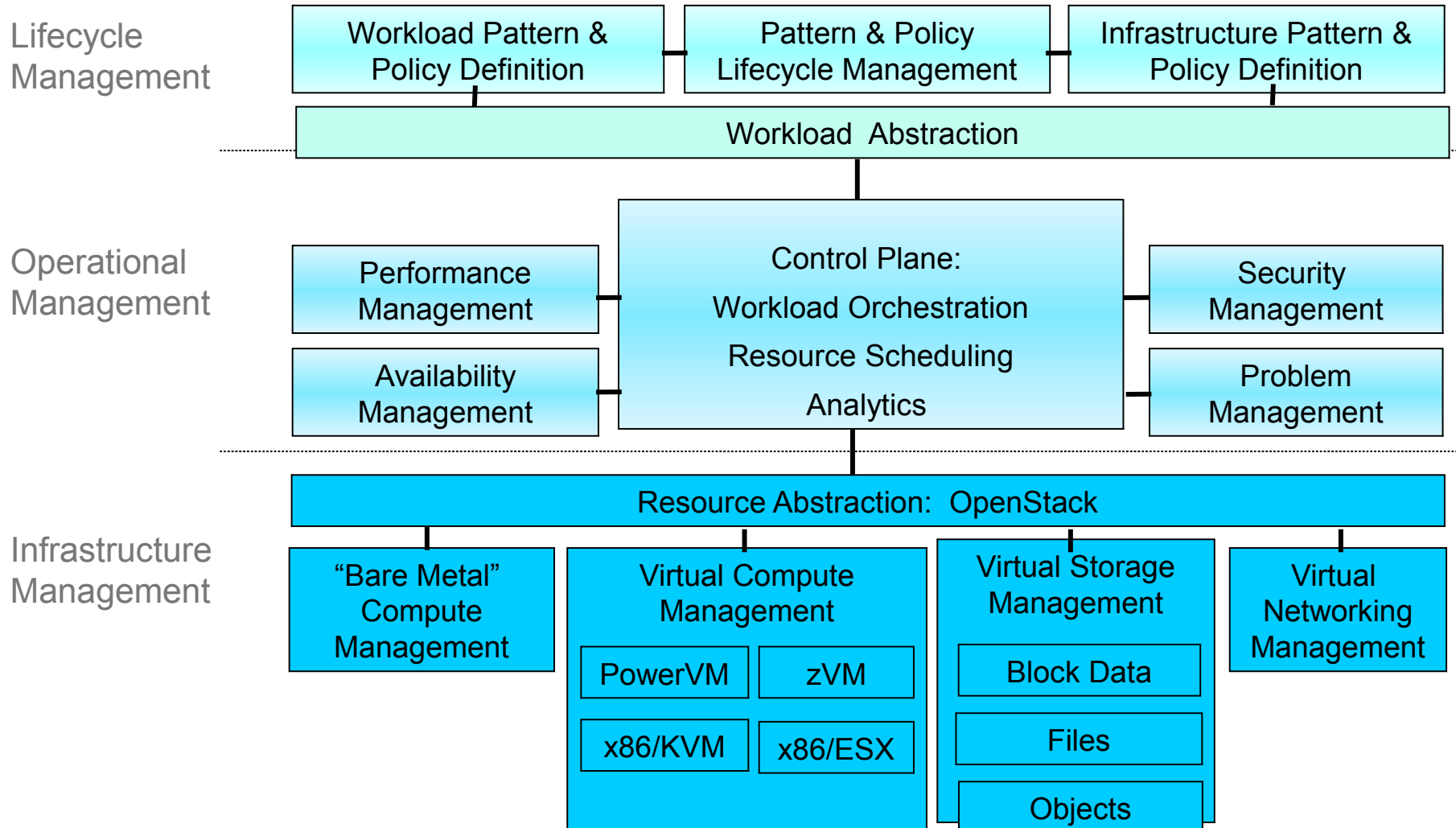
What are Software Defined Environments?

Software	Abstracted and virtualized IT infrastructure resources managed by software
Defined	Workloads that define infrastructure requirements and configuration
Environments	IT infrastructure that extends multiple environments to go beyond the data center

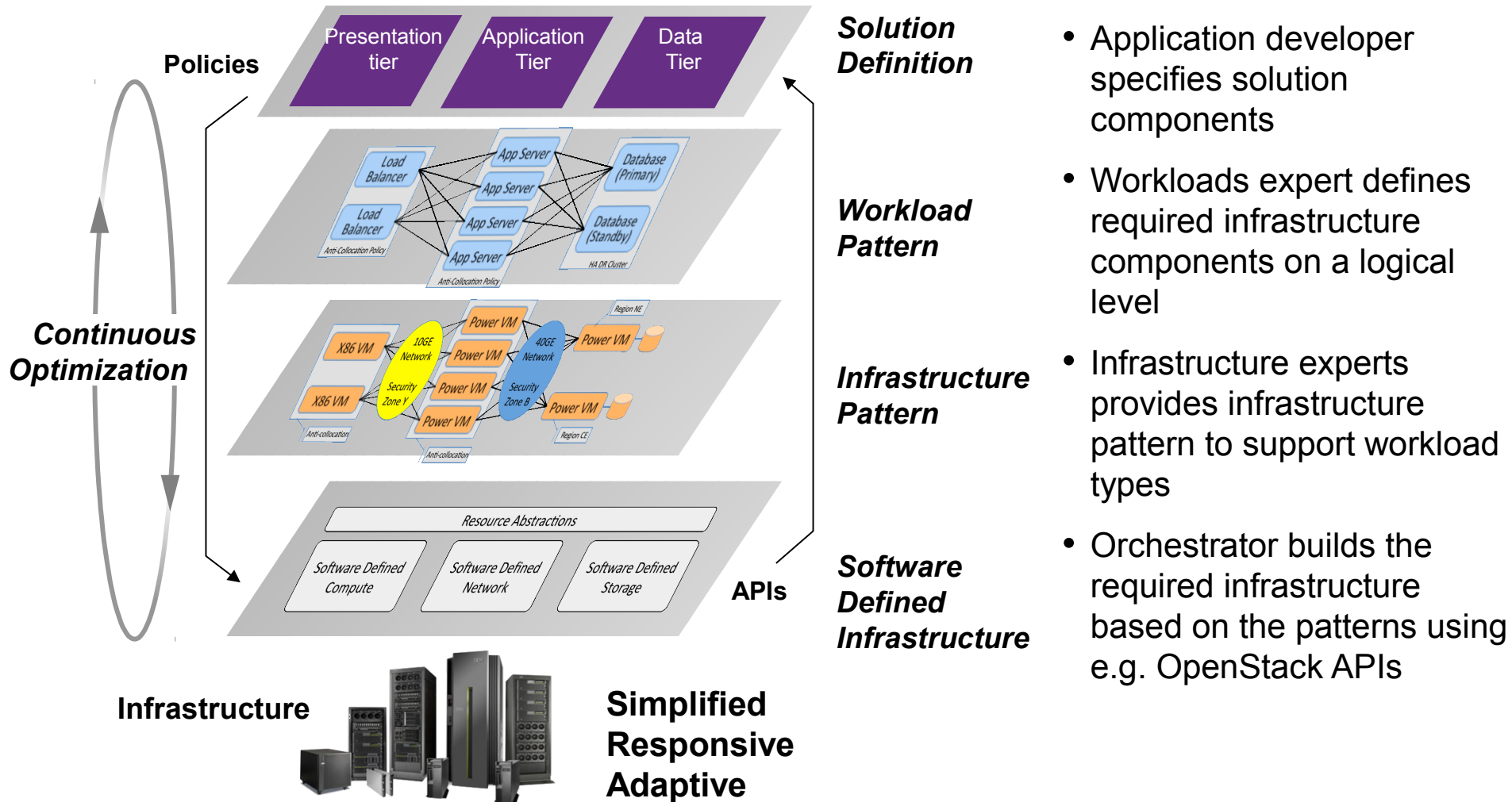


With IBM's Software Defined Environment, infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands

IBM Software Defined Environment capabilities span workload and infrastructure lifecycles



Software Defined Environments are Workload Aware, leveraging best practices with Patterns of Expertise

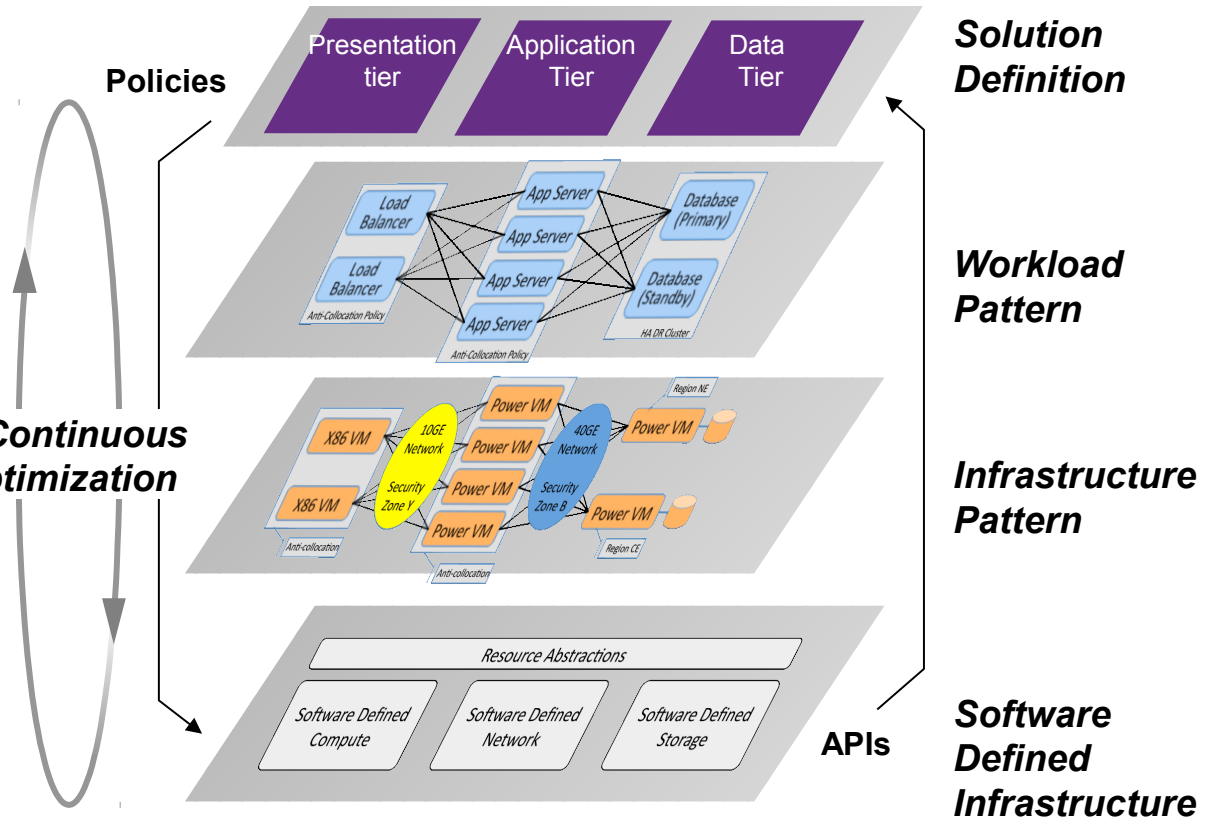


Software Defined Environments are automated for consistency and agility

- Programmable infrastructure via open APIs
- Workloads dynamically assigned resources based on policies
- Automated Service Activation based on policies

Continuous Optimization

Policies

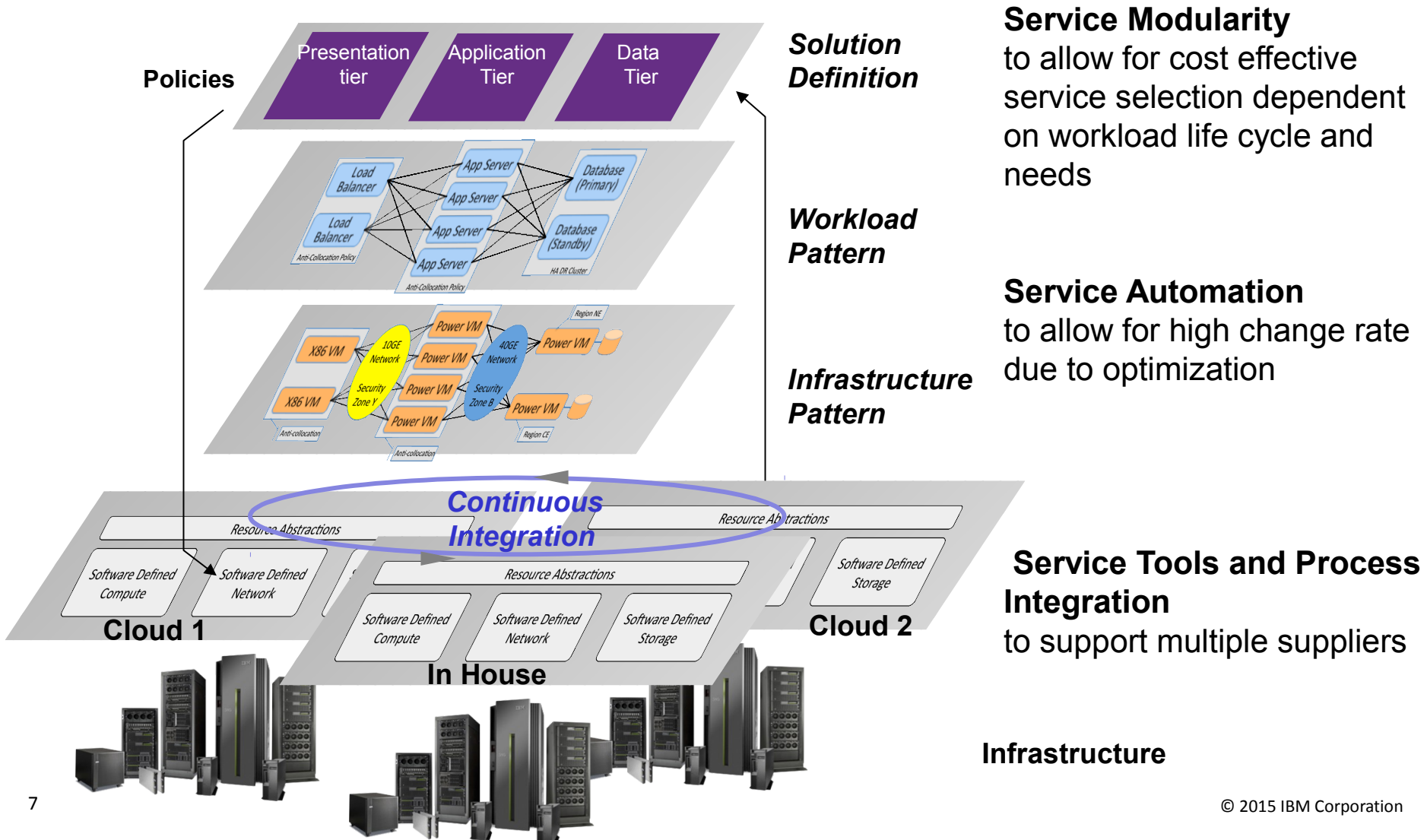


Infrastructure

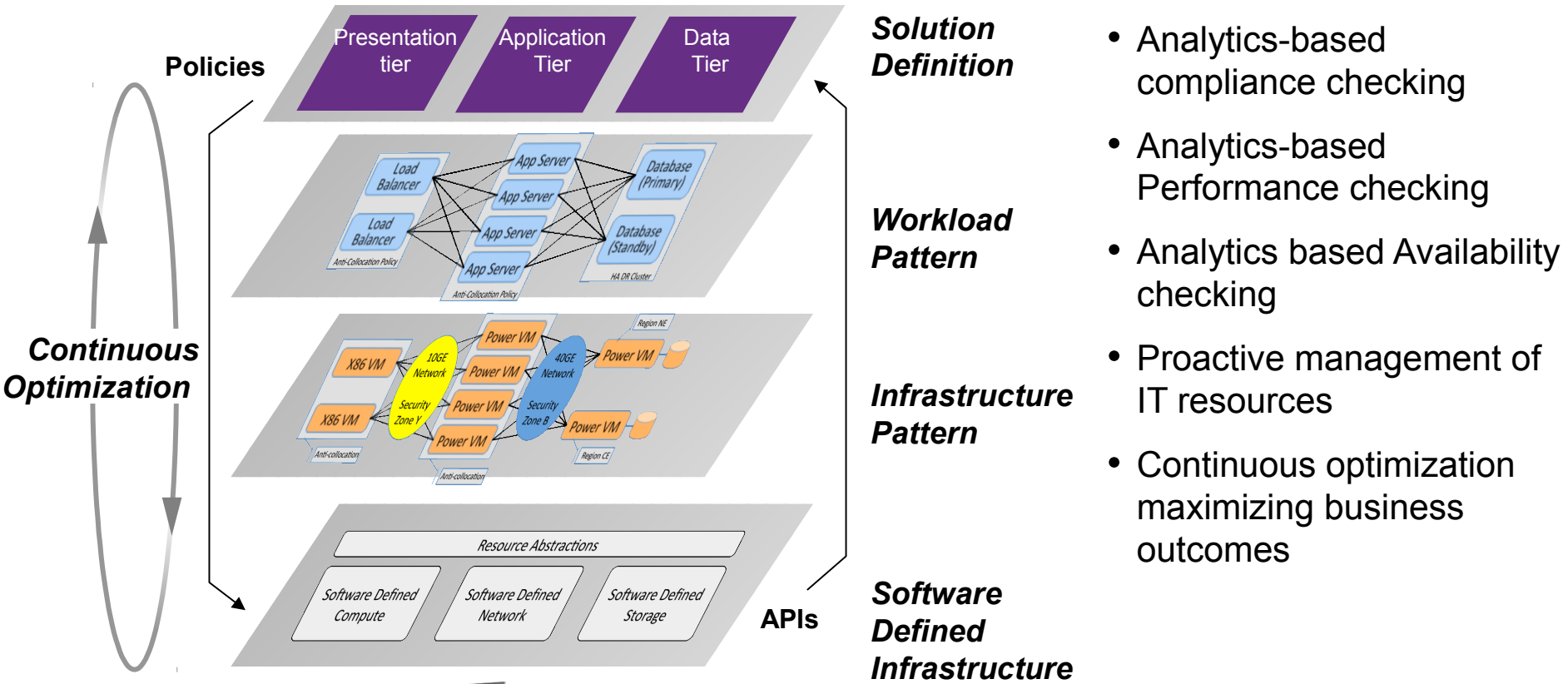


Simplified Responsive Adaptive

Software Defined Environments impacts Service Management



Software Defined Environments are Workload Aware, leveraging Analytics for Continuous Optimization



- Analytics-based compliance checking
- Analytics-based Performance checking
- Analytics based Availability checking
- Proactive management of IT resources
- Continuous optimization maximizing business outcomes

Infrastructure



Simplified
Responsive
Adaptive

Is your IT already
an SDE?