

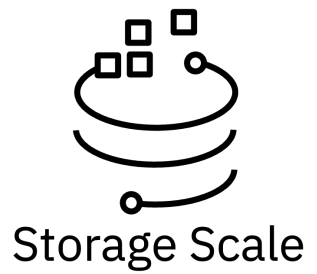
Unified Installation and Configuration (On-premise and on Cloud)

IBM Storage Scale Days 2024

March 5-7, 2024 | Stuttgart Marriott Hotel Sindelfingen

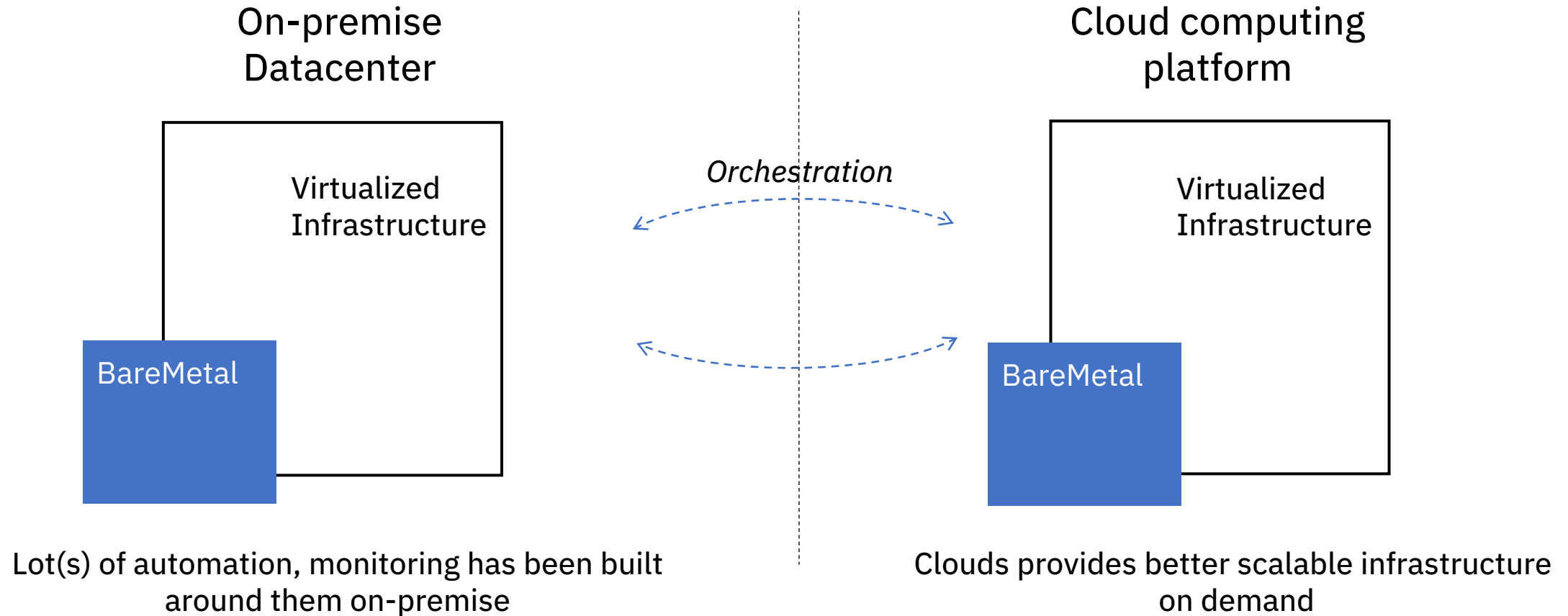
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What is happening today ?



Managing Modern Infrastructure

01

- Large on-premise footprint
- Looking to expand to cloud, bursting, stateless analytics, backup use-cases for cloud
- Infrastructure management stays on-premise

02

- Cloud First/Born users
- Multi-cloud strategy
- Small/No on-premise footprint
- Infrastructure management stays on cloud

Fit into *existing automation ecosystem*, Make it *easy to install, configure & update* Storage Scale environments, by enabling an “Infrastructure as Code” (IaC) management model.

(Consistent tooling independent of the underlying infrastructure)

Building Blocks

1

Ansible tooling for deploying and configuring IBM Storage Scale

<https://github.com/ibm/ibm-spectrum-scale-install-infra> (Apache 2.0 license)

Fine-grained feature selection (Modular roles)

Scope:

- Initial deployment and best practices initial configuration
- Lifecycle management
 - Add/Remove nodes
 - Add/Remove disks
 - Upgrade

....

Composable deployment architecture enabling incremental addition of Scale feature(s).



Building Blocks

2

Terraform tooling to provision resources for IBM Storage Scale on cloud(s)

<https://github.com/ibm/ibm-spectrum-scale-cloud-install> (Apache 2.0 license)

Cloud-agnostic: AWS, GCP, Azure, IBM Cloud

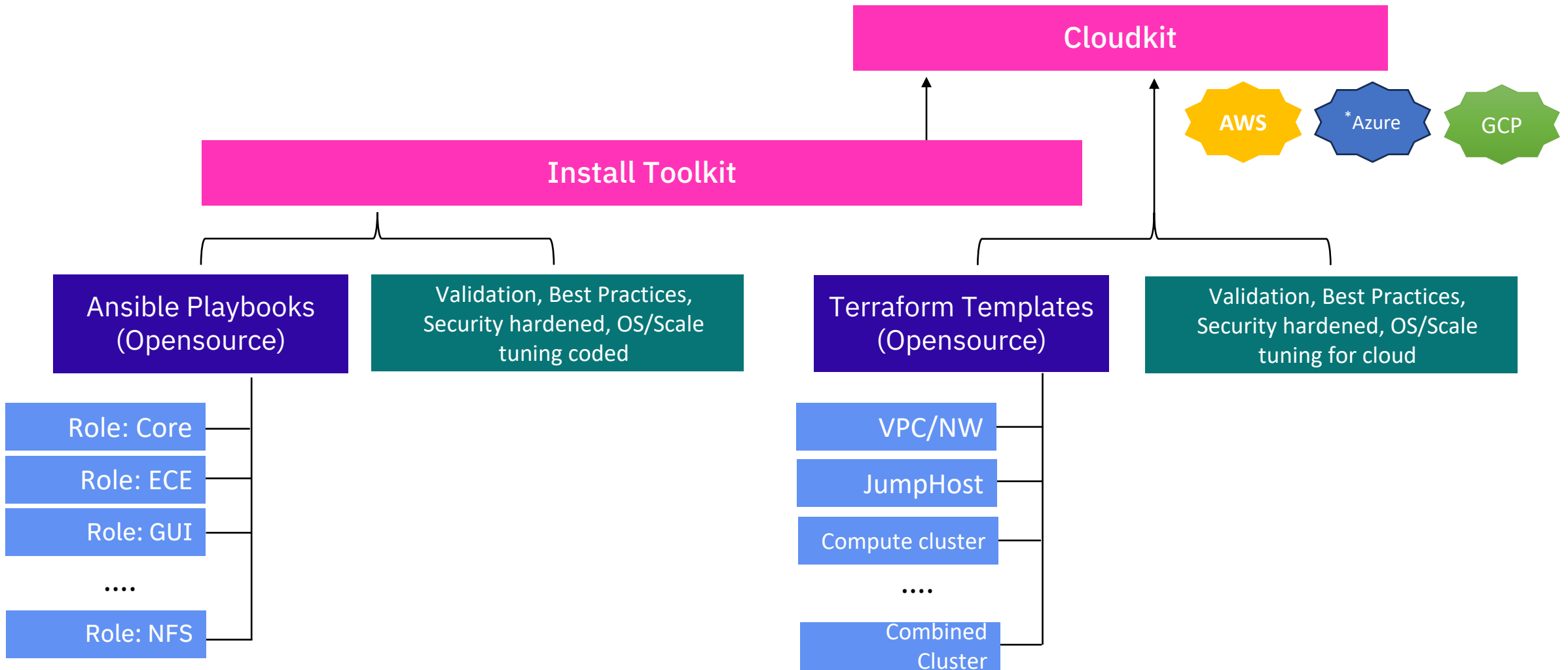
Scope:

- Deployment patterns:
 - Single / Multiple availability zones
 - Single / Multiple clusters
 - Re-use existing VPC/network



Composable deployment architecture to provision infrastructure resources.

Composable Deployment Architecture



*Azure: In tech-preview for 5.2.0

Consistent Tooling *(wherever your infrastructure is - covered)*

Scenario	Toolkit	Cloudfit
Admin driven management for scale install and configuration On-premise and cloud	✓	
Manually provisioned scale cluster for further administration & upgrade	✓	
Admin driven management for resource provisioning on cloud <i>(along with scale install and configuration)</i>	✓	✓
Management of lifecycle operations ^[1] In-conjunction with provisioned resources		✓

[1] Life cycle operations includes - Expansion, AFM, Protocols etc.

Summary

Every automation use case is different.

- Make it easy to deploy IBM Storage Scale
 - Fit into existing automation ecosystem
 - Composable architecture
 - Open source, community-driven initiative
 - On-prem, public, hybrid – without vendor lock-in
- Learn more about Cloudkit & Ansible Toolkit:
 - Discuss various architectural options available in cloud
 - Use cases of with Cloudkit (& Storage Scale)
 - Getting started with Ansible Toolkit (& Storage Scale)

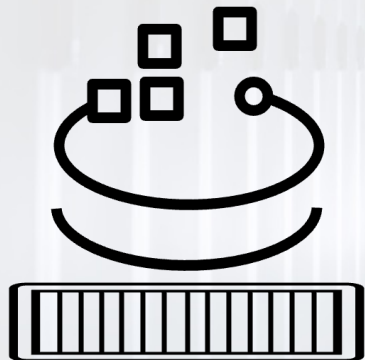
→ *Cloudkit and Ansible Toolkit Deep Dive*

Thu, 7th March 11:00 – 11:55 AM

Thank you for using



Storage Scale



Storage Scale
System