Secure and Well Managed Everywhere
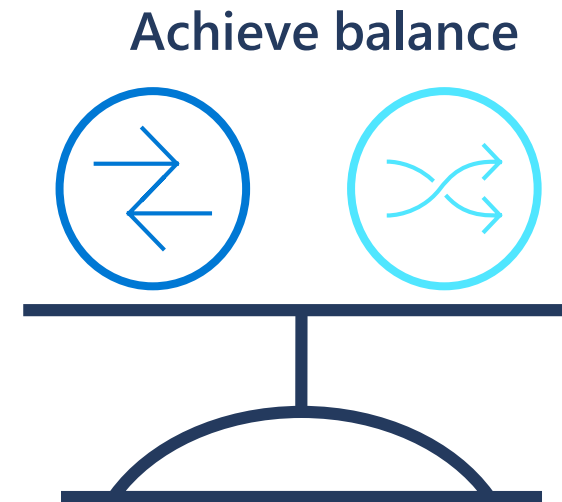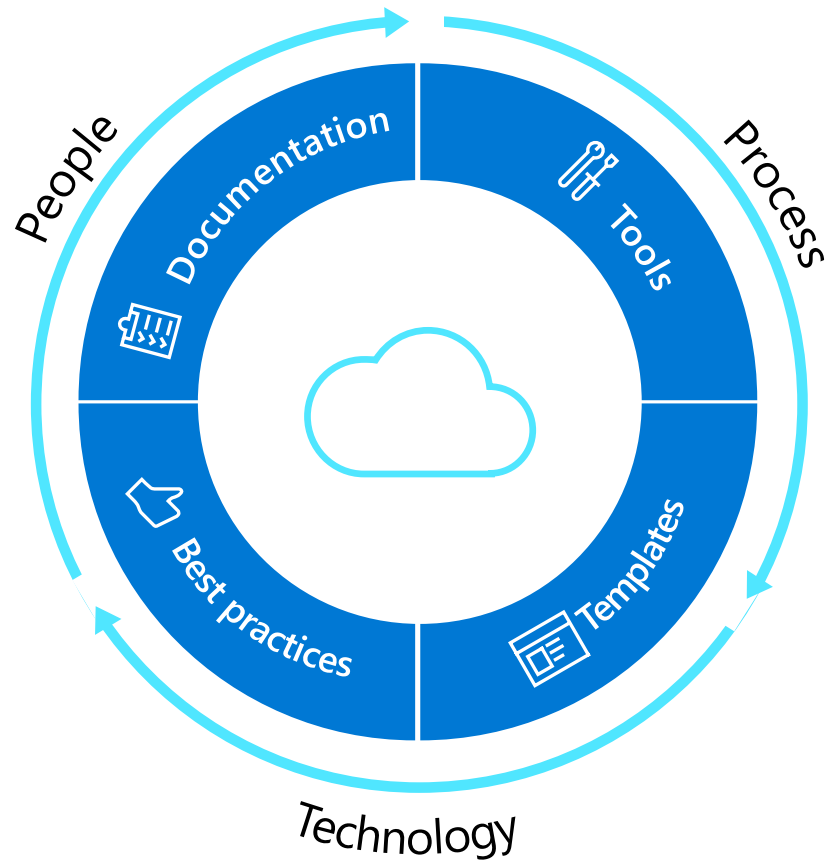
Nirmal Thewarathanthri
Cloud Solution Architect
@nirmalmt
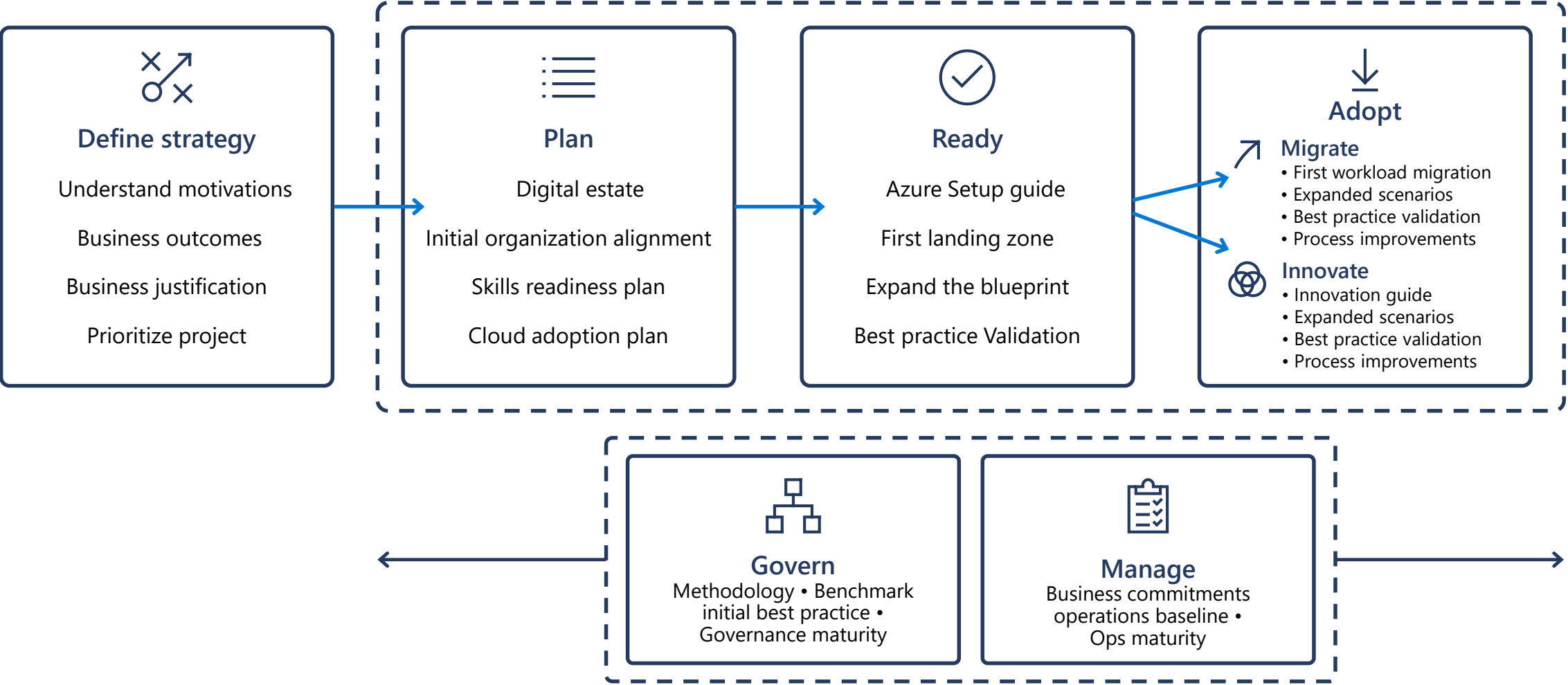https://github.com/nthewara

Microsoft Cloud Adoption Framework for Azure

Align **business, people and technology strategy** to achieve business goals with **actionable, efficient, and comprehensive** guidance to deliver fast results with control and stability.

Microsoft Cloud Adoption Framework for Azure

Define strategy
Understand motivations

Business outcomes

Business justification

Prioritize project

Plan
Digital estate

Initial organization alignment

Skills readiness plan

Cloud adoption plan

Ready
Azure Setup guide

First landing zone

Expand the blueprint

Best practice Validation

Adopt

Migrate
- First workload migration
- Expanded scenarios
- Best practice validation
- Process improvements

Innovate
- Innovation guide
- Expanded scenarios
- Best practice validation
- Process improvements

Govern
Methodology • Benchmark initial best practice • Governance maturity

Manage
Business commitments operations baseline • Ops maturity

Governance for the cloud

The broadest governance portfolio of any cloud

| Management Group	Policy	Blueprints	Resource Graph	Cost Management
Define organizational hierarchy	Real-time enforcement, compliance assessment and remediation	Deploy and update cloud environments in a repeatable manner using composable artifacts	Query, explore & analyze cloud resources at scale	Monitor cloud spend and optimize resources
Hierarchy	**Control**	**Environment**	**Visibility**	**Consumption**

Azure Blueprints
Key Features
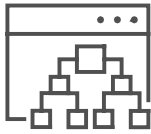
Manage Environments

Package to safely and efficiently provision and manage infra at scale
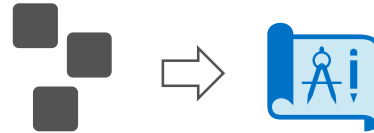
Reduce Complexity

Define all your artifacts (policies, RBAC, and ARM templates) that go into an environment in simple experience (either UI or as-code)

Secure Resources

Lock down foundational infra that are shared across subscriptions

Azure Policy

Active control and governance at scale for your Azure resources

1. Ensure compliance
2. Empower DevOps
3. Manage costs

Enforcement & compliance

Turn on built-in policies or build custom ones for all resource types

Real-time policy evaluation and enforcement

Periodic & on-demand compliance evaluation
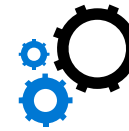
Policy integration for AKS (**NEW**)

Apply policies at scale

Apply policies to a Management Group with control across your entire organization

Apply multiple policies and & aggregate policy states with policy initiatives

Exclusion Scope

Policy as Code with Azure DevOps

Remediate & automate

Remediate existing resources at scale (**NEW**)

Automatic remediation resources at deployment time

Trigger alerts when a resource is out of compliance

Azure Arc: *at a high level*

Bring Azure services and management to any infrastructure, anywhere

Run Azure data services anywhere

Extend Azure management across your environments

Adopt cloud practices on-premises
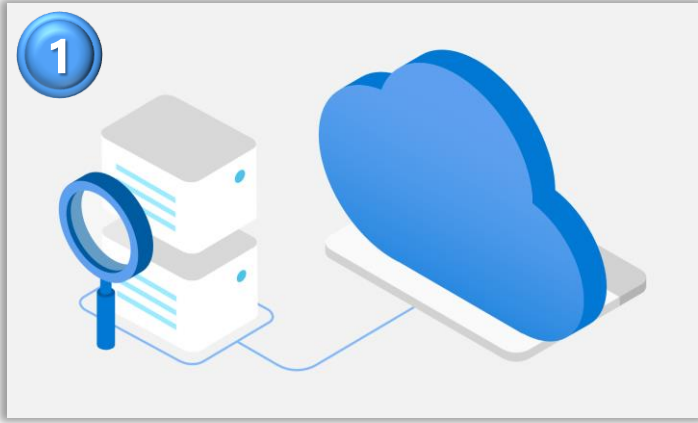
Implement Azure security anywhere

Azure Arc is a set of technologies that extends Azure management and enables Azure services to run across on-premises, multi-cloud, and edge

Azure Arc: *... and more specifically*

Azure services & management capabilities on any infrastructure, anywhere
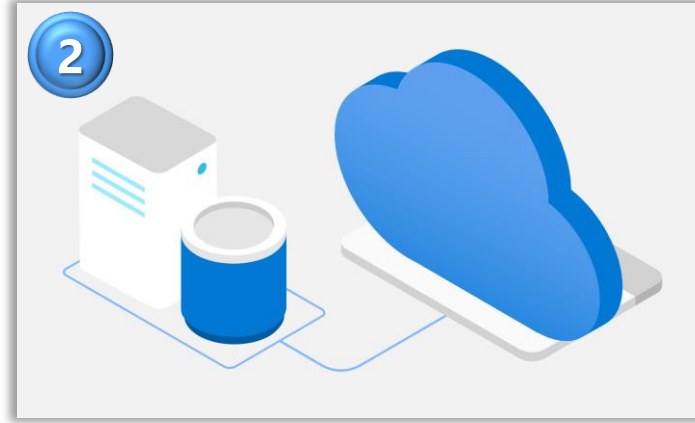
Azure Arc for servers

1. Organize and govern servers across environments

Azure Arc extends Azure's management to physical and virtual servers anywhere. Govern and manage servers from a single, scalable management pane.

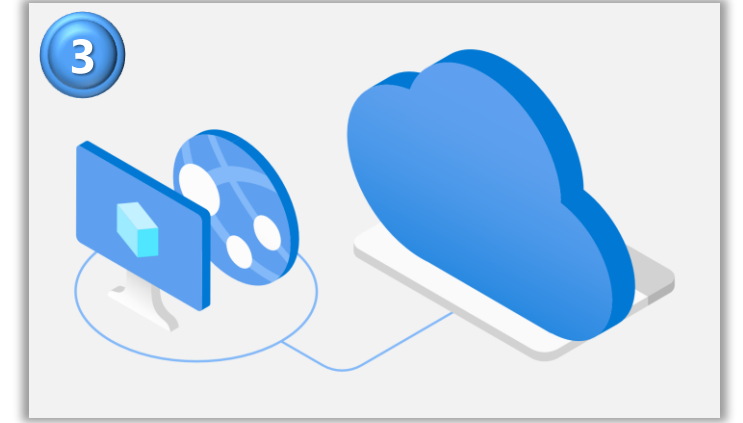Learn more

Azure Arc for Kubernetes

2. Manage Kubernetes applications at-scale

Deploy and configure Kubernetes applications consistently across all your environments with modern DevOps techniques.

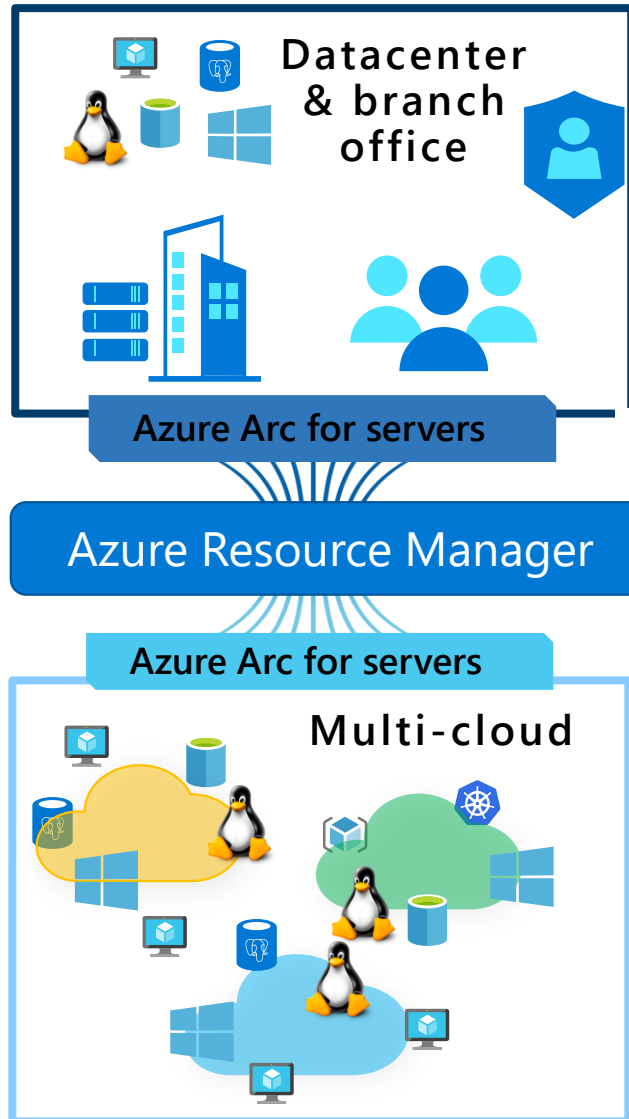Learn more

Azure data services on Azure Arc

3. Run data services anywhere

Deploy Azure data services in moments anywhere you need them. Get simpler compliance, faster response times, and better security for your data.

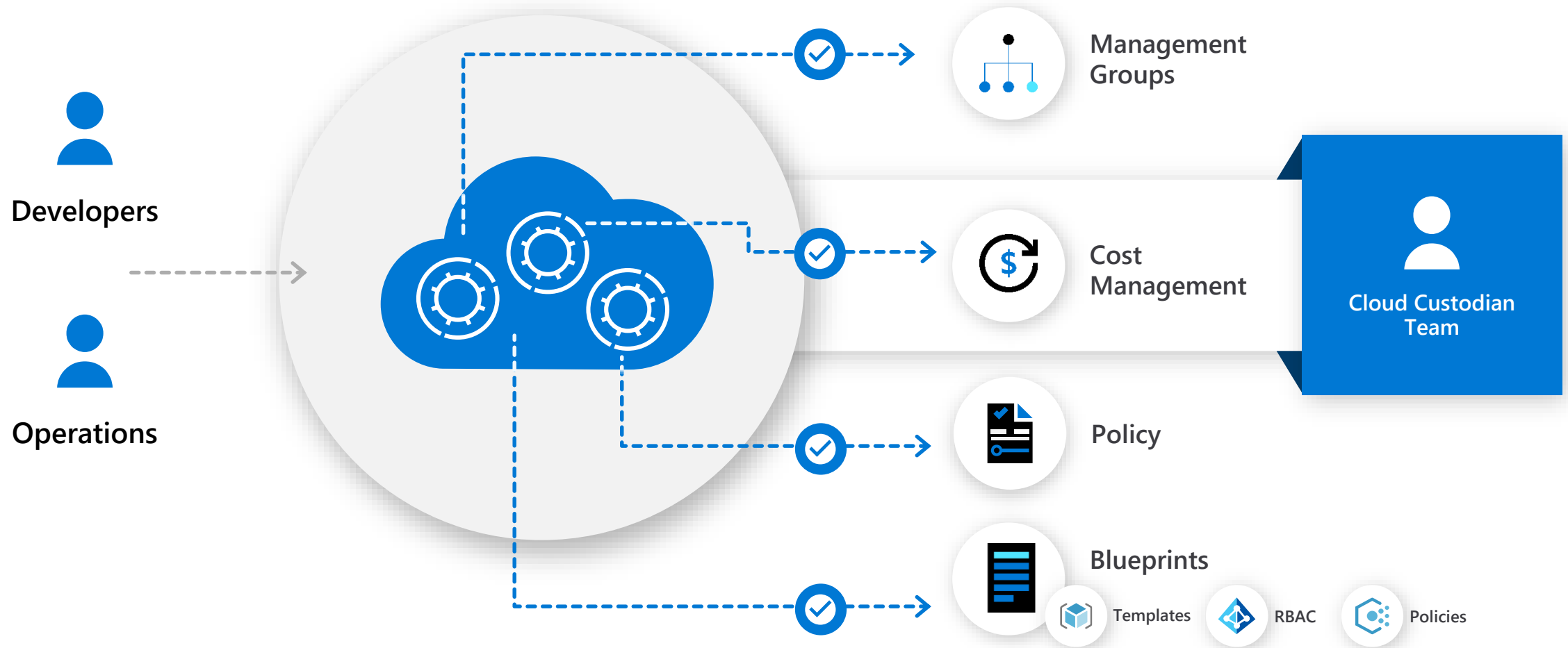Learn more

Customer scenario – Solution

Central Governance across your environment

- Asset organization and inventory with a unified view in the Azure Portal

- Universal governance anywhere through Azure Policy

- Built-in server compliance rules

- Central compliance view across all servers

- Server owners can view and remediate to meet their compliance

- MSPs can implement governance for their customer's environment

Speed and control

Cloud-native governance: Removing barriers to compliance and enabling velocity

Developers

Operations

Management Groups

Cost Management

Policy

Blueprints

Templates

RBAC

Policies

Cloud Custodian Team

Thank you!