FILIP CASTELEYN, ENTERPRISE TECHNOLOGY ARCHITECT

Why is Azure governance crucial for the cloud - Part 1

REALDOLMEN
a Gfi Group company

What is Governance?

An establishment of policies and continuous monitoring of their proper implementation, by the members of the governing body of an organization.

(Source: BusinessDictionary)

Maximum
AGILITY

BALANCE

Maximum
CONTROL

Challenges

- Multiple engineering teams
  - ▶ Should you allow all your IT staff and developers to have admin rights?

- Need for cost control
  - ▶ Who has an unlimited IT budget?

- Manage multiple Azure subscriptions

- Need to standardize and compliancy
  - ▶ Security considerations
  - ▶ Design consistency

- For all types of IT organizations

Cost Summary

Gen5 - *Business Critical (BC_Gen5_80)*

Cost per **vCore** (in EUR) 210.11

vCores selected x 80

Cost per **GB** (in EUR) 0.25

Max storage selected (in GB) x 5120

EST. COST PER MONTH 18093.17 EUR

Governance Wheel
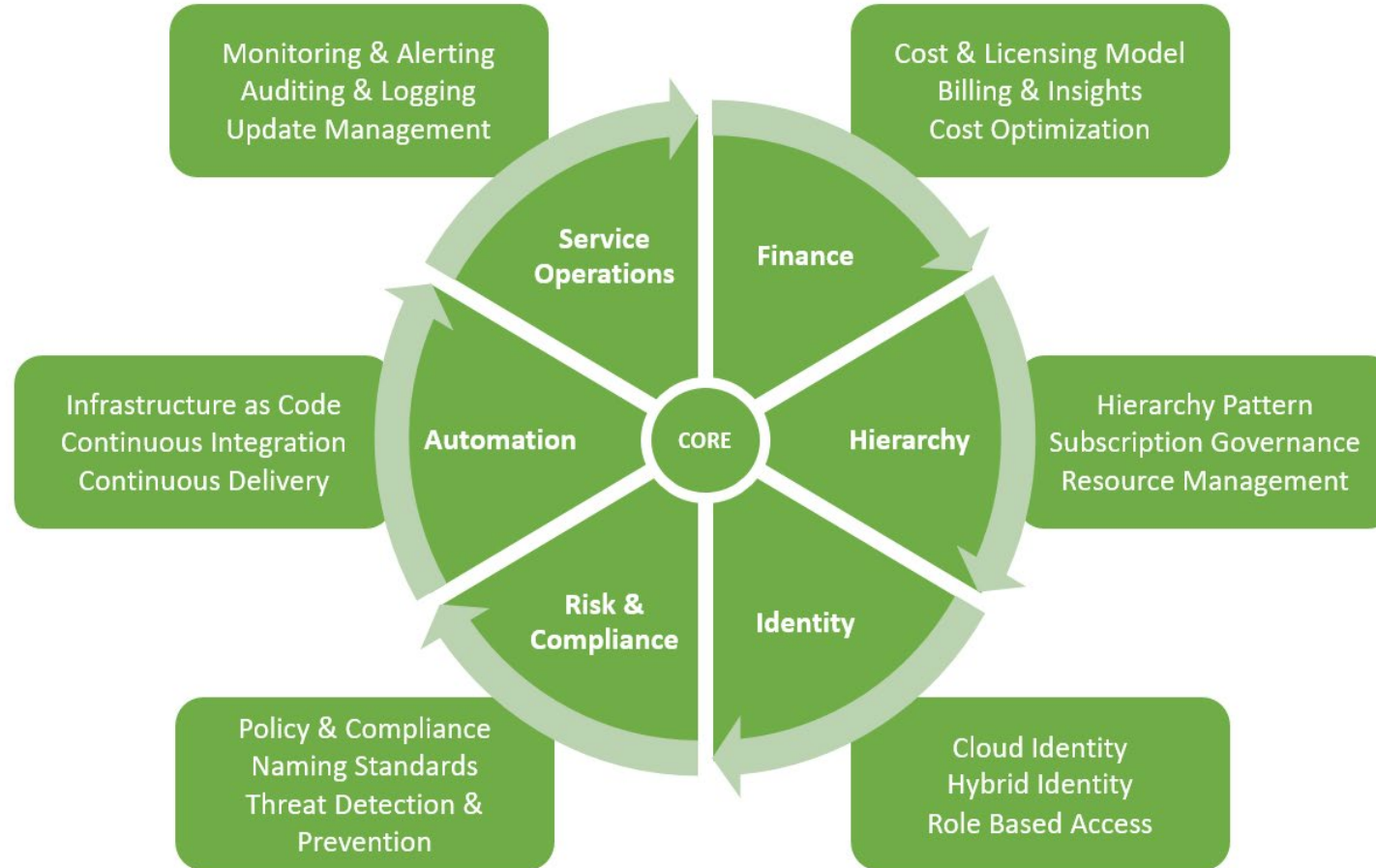
Finance

- Select the appropriate purchase model.
- Make sure that only required resources can be ordered/provisioned.
- Make sure that existing licenses are used for the correct resources.
- Keep an overview of your public cloud costs.
- Optimize costs where appropriate.

Apply policies

Azure Policy

Implement policy-based management for all Azure services.

Best Practices

Azure Advisor

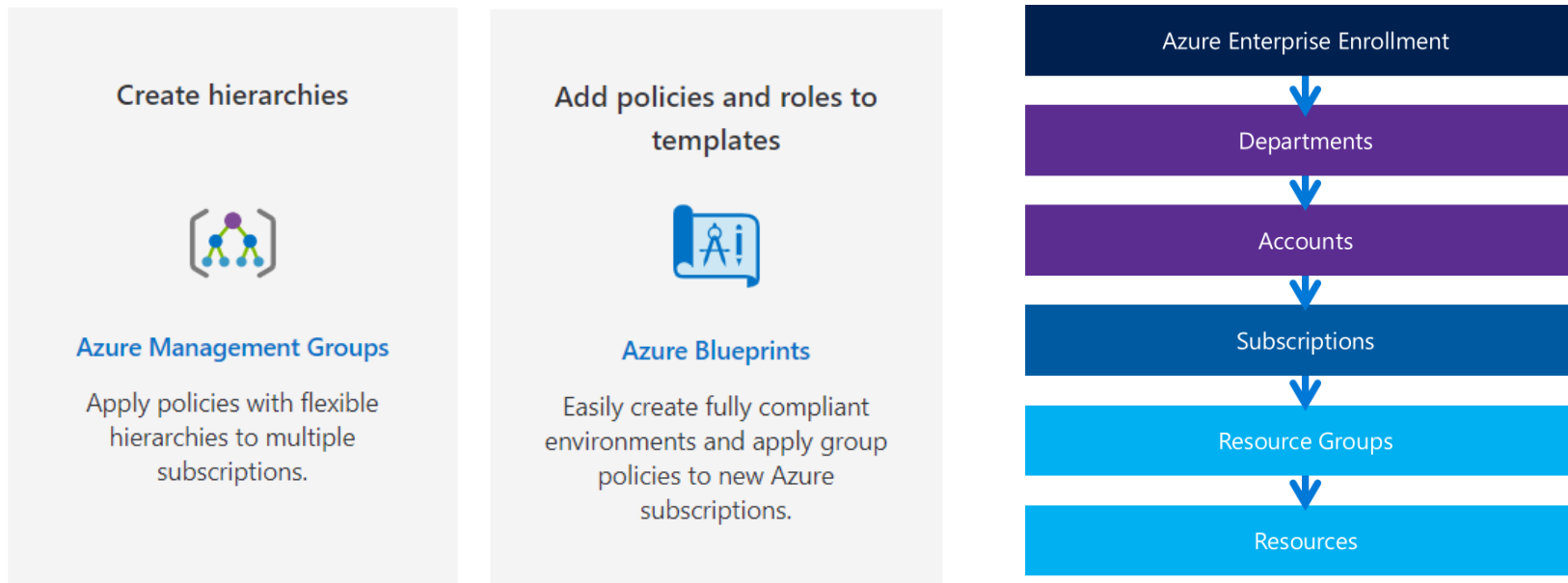Follow best practices to optimize your environment

Optimize costs

Cost Management

Analyze costs and monitor usage from a single dashboard.

Hierarchy

- Define how your services are structured within the enterprise.
- Customize the hierarchy model to your unique needs.
- Assign roles and permissions according to responsibilities.

Create hierarchies

Azure Management Groups

Apply policies with flexible hierarchies to multiple subscriptions.

Add policies and roles to templates

Azure Blueprints

Easily create fully compliant environments and apply group policies to new Azure subscriptions.

Azure Enterprise Enrollment

Departments

Accounts

Subscriptions

Resource Groups

Resources

Identity

- Provide fine-grained access to Azure resources
- Use roles to grant access to fine grained actions
- Grant access to service principals and managed identities
- Safeguard access to applications and data

Authentication & Authorization

Azure Active Directory

Multi-tenant cloud-based identity

Correct Permissions

Role-Based Access

Follow best practices to optimize your environment

Secure Authentication

Multi-Factor Authentication

Ensure secure authentication to the Azure environment

Risk & Compliance

- Make sure provisioned resources are compliant to organization's policy rules .
- Make sure resources are setup in a secure manner.
- Make sure resources are named according to naming conventions.

Naming Convention

Organize, identify and locate your Azure resources

Apply policies

Azure Policy

Implement policy-based management for all Azure services.

Detect and Prevent

Azure Security Center

Detect and help protect against security threats

Automation

- Automate operational tasks
- Reduce time to market
- Shut down resources when not required (cost reduction)
- Integrate DevOps principles

Automate	Retrieve & Organize	DevOps
Azure Automation	**Azure Tags**	**Azure DevOps**
Configure and automate operational tasks	Apply metadata to Azure resources	Continuous Integration and Continuous Delivery

Service Operations

- Protect critical resources for change or deletion.
- Monitor resources and remediate when required.
- Audit activities performed on the environment.

Lock	Monitor & Alert	Log & Query
Azure Resource Locks	**Azure Monitor**	**Azure Log Analytics**
Protect critical resources from change or deletion	Continuously inspect the state of Azure resources and alert/remediate when required.	Keep trace of and retrieve Azure resource telemetry

How can Realdolmen help you?

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PLAN → **BUILD** → **RUN**

- Modelling Services (5 - 10 MD)
- Strategy Services
- Design Services

- Migration Services
- Customization Services

- Managed Services
- Proactive Services
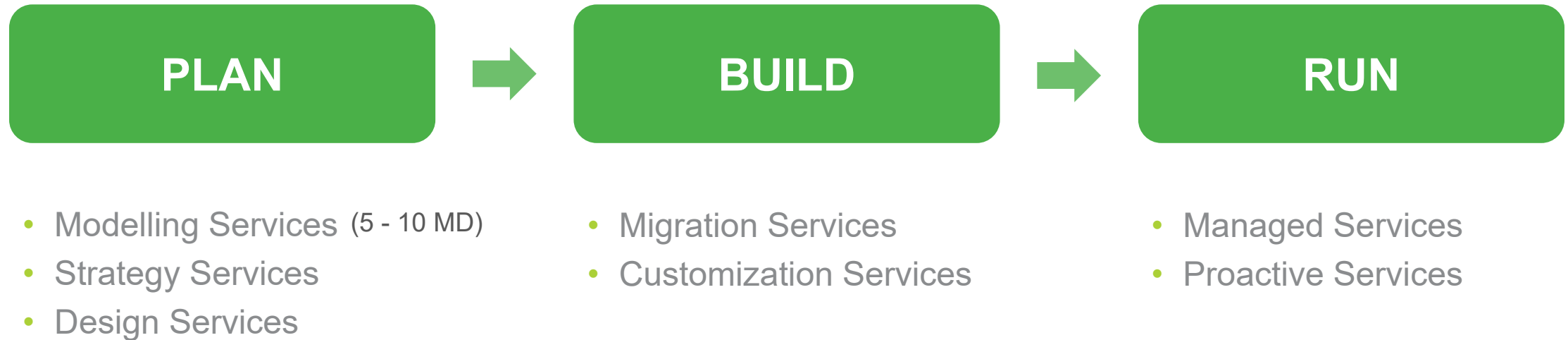
WHAT'S NEXT ?

	Technical Track	Services & Management Track
11:00-11:30	Break	
11:30-12:30	Migration to the cloud – part 2: Evolve from IaaS to PaaS *Stijn Verhoeven*	Why is Azure Governance crucial for the cloud – part 2 *Jan Coucke*