

Workshop Example

Turnkey business ready azure

About this example

- This powerpoint workshop is usually 80-100 pages
- Aim is to show our way of work to get the requirements and decisions clearly defined and recorded . This is done together in a workshop format where the information is added as we go through the presentation
- This workshop about the design of the landingzone is part of the 'Assessment' phase. The results will be used as input for the 'Design' phase.

Agenda

Part I

- 1 Introduction
Assessment, Health-scan
- 2 Landingzone
Overview
- 3 Networking
- 4 Governance
Subscriptions – Policy – Cost
– Tagging etc

Part II

- 5 Identity
- 6 Security
- 7 Monitoring
- 8 Automation

Part III

- Agenda item
- Agenda item
- Agenda item
- Agenda item

Introduction

Customer

Attendee's name– role
Attendee's name– role
Attendee's name– role
Attendee's name– role
Attendee's name– role



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Joe Tahsin - Lead devops
Arjan Kooij – Lead consultant

Click to add
text

Goals



What are your expectations for today?



Which topics should be addressed and decided on today according to you ?



Which subject matters require specific attention today ?

Background

Goal

- *Design & implement Turnkey Business ready azure solution for Customer based on Azure native features.*

Rationale

- A turnkey Business ready azure requires a governance model in order to provide **Cost management, Automation, Monitoring & Compliancy validation with the help of Azure Policy** also directly include primitives such as naming convention, subscription design, resource groups and the usage of management groups.
- Provide a **future ready governance architecture** to remain in control for the new **Azure platform environment**.

Next steps

- After having successful workshop, the design will be digest including design decisions and rationale. After reviewing and agreed implementation will be effectuated in production.

What is a landing zone ?

Definition:

Its an environment for hosting your workloads, pre-provisioned through code.

Basic building block of any cloud adoption environment.

It includes foundational capabilities using defined set of cloud services and best practices, so you are set up for success.

Usually it's a just a configuration on top of Azure subscriptions. Like connectivity, access, audit trail and security settings etc.

- ▶ Identity,
- ▶ Networking
- ▶ Monitoring
- ▶ Automation
- ▶ Security
- ▶ Governance

Why we need a landing zone ?

- ▶ By using Landing zones, projects instantly focus on development and be sure that their subscription follows organization best practices and requirements.
- ▶ In the past every project needed to find out what are the security requirements and how to do in the Azure
- ▶ With Landing zones, organizations can centrally invest on it and duplicate / copy process to all the subscriptions.
- ▶ Development projects focus on application development and “forget” administrative overhead.
- ▶ With deploying and maintain landing zones, all the subscriptions are secured, and changes and fixes afterwards are minimized.

Landing zone core components



Design of Landing zones

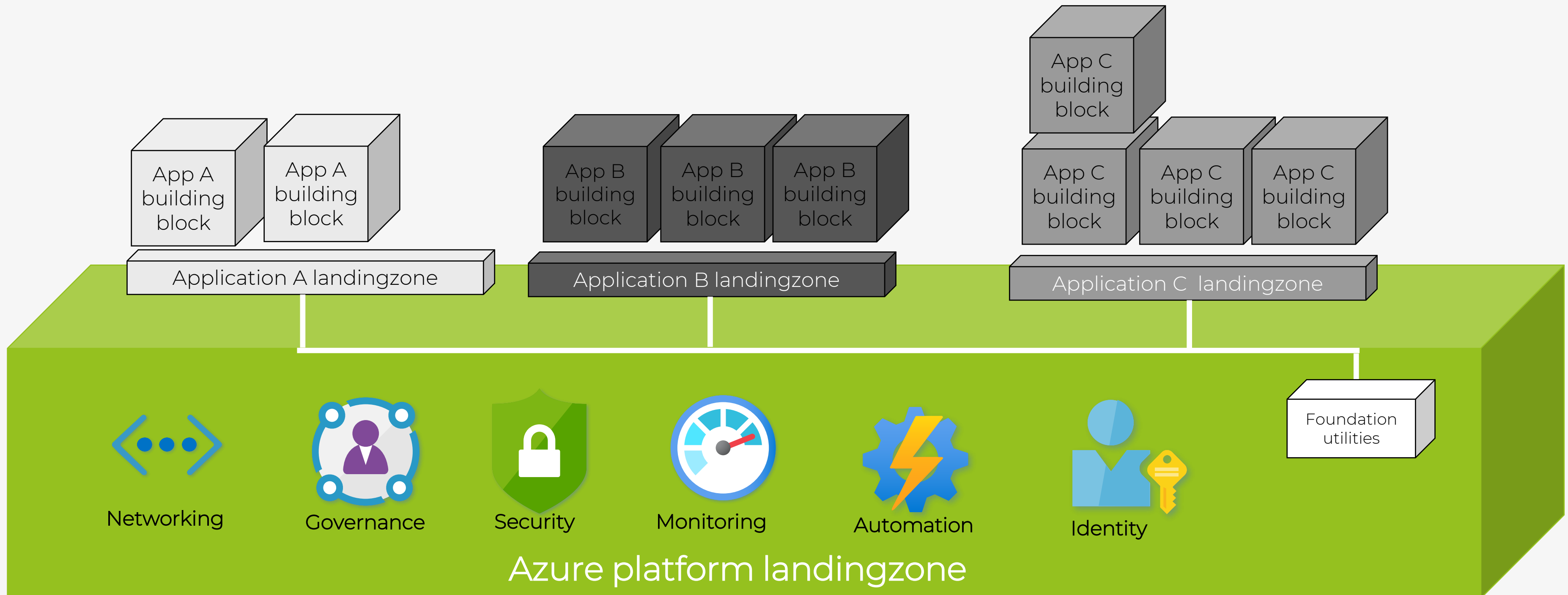
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Azure Landing zone architecture

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What is a landing zone

A landing zone is an environment that is pre-designed and deployed with code. The use of landing zones ensures that application workloads can land on the Azure platform on a standardized basis.



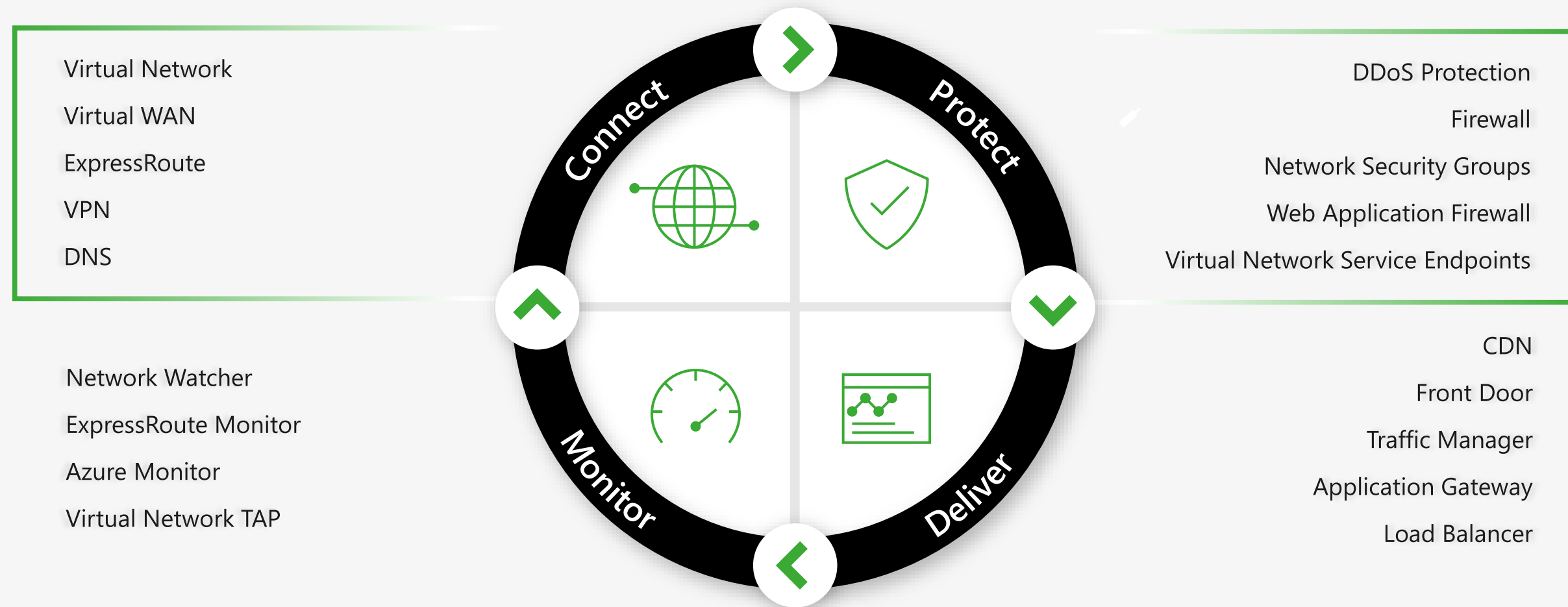
Networking

- ▶ Between clouds
- ▶ Between subscriptions
- ▶ To onprem
- ▶ And security

Drawing of possible solution for mileway

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Azure networking services



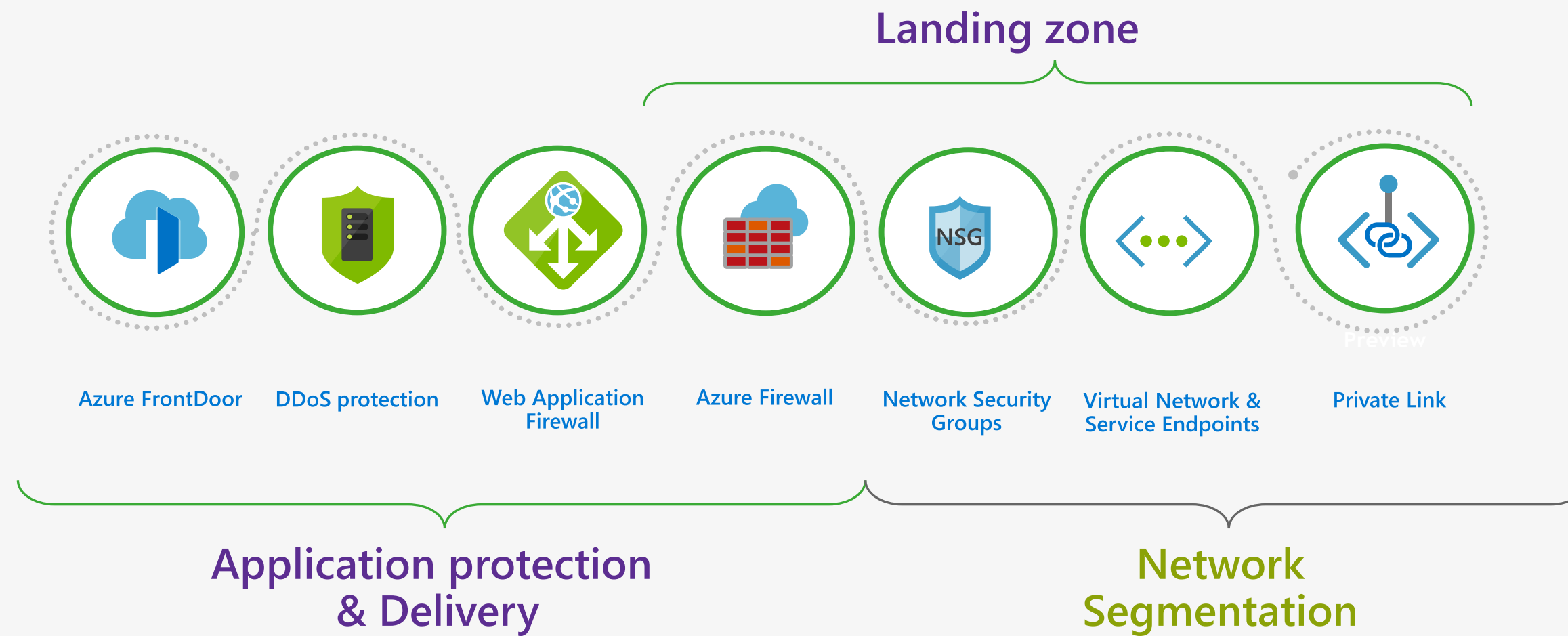
Design decision networking

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Hub & Spoke topology

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Protection services enabling zero trust

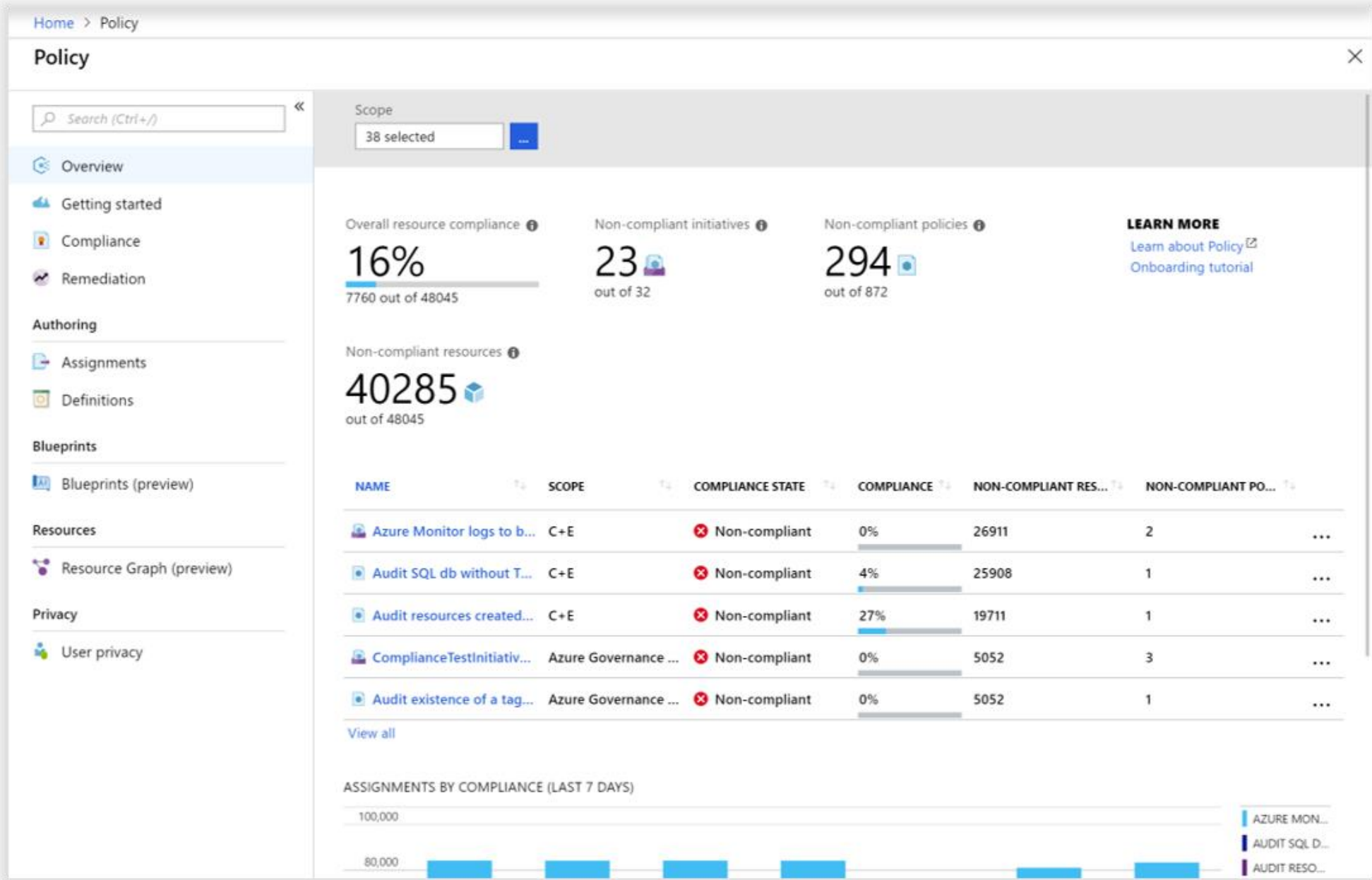


Traffic costs overview

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Governance

- ▶ Regulatory compliance requirements
- ▶ Security settings
- ▶ Audit settings
- ▶ Automation (Deploy-if-not-exists)



Governance overview

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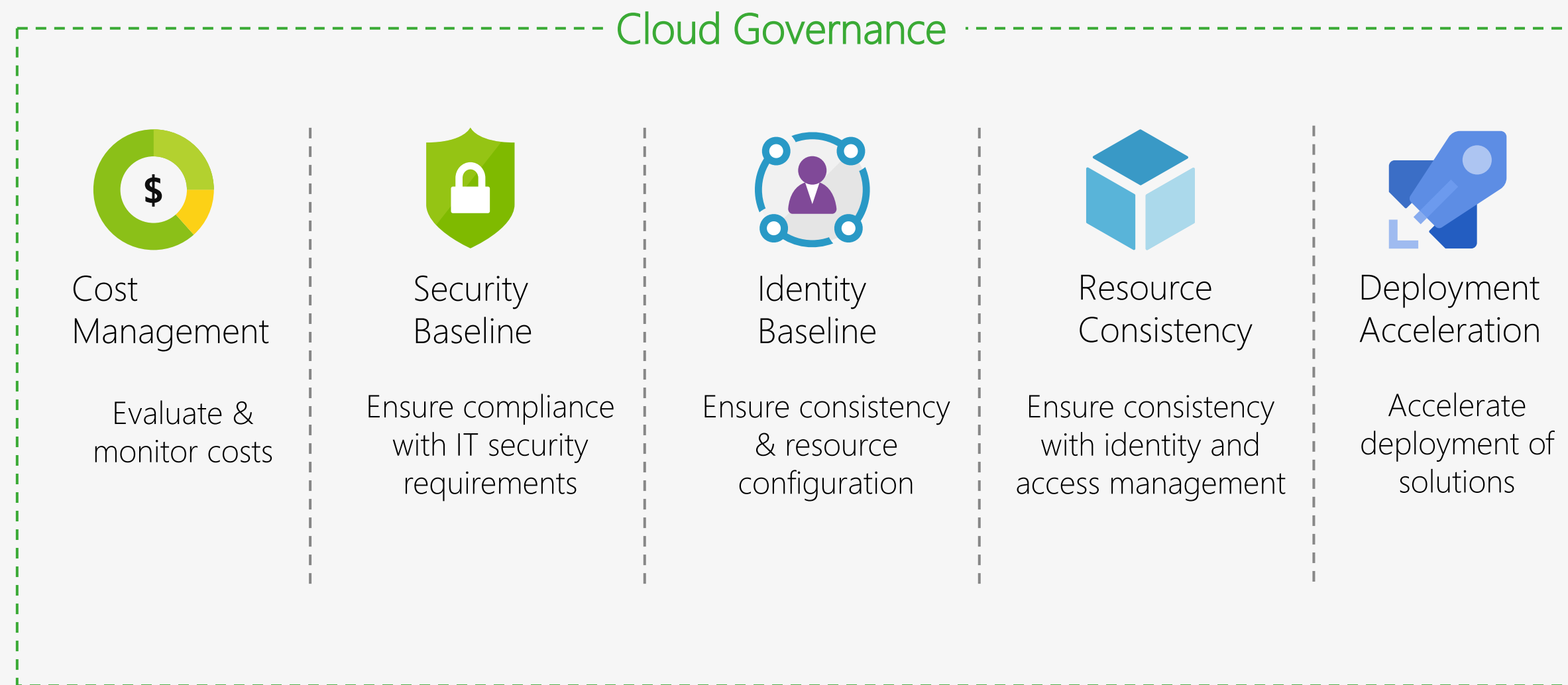
Why governance

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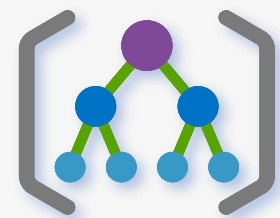
Azure Governance architecture

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The 5 Disciplines of Cloud Governance



Governance on Azure



Management Group

Define organizational hierarchy

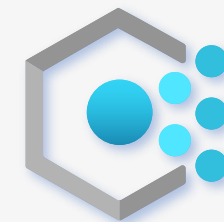
Hierarchy



Cost Management

Monitor cloud spend and optimize resources

Consumption



Policy

Real-time enforcement, compliance assessment and remediation

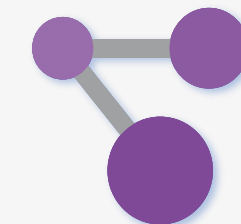
Control



Blueprints

Deploy and update cloud environments in a repeatable manner using composable artifacts

Environment



Resource Graph

Query, explore & analyze cloud resources at scale

Visibility

Identity

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- ▶ Policy administrator vs.
Subscription owner
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- ▶ Left blank
- ▶ Left blank
- ▶ Custom roles
Platform owner vs.
Landing zone owners vs.
Application owner.

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Security

- ▶ Security Center policy
- ▶ Security Baselines
- ▶ In-guest settings
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Home > Security Center - Regulatory compliance

Security Center - Regulatory compliance

Showing 7 subscriptions

Search (Ctrl+F) Download report

Regulatory compliance assessment

Failed	191
Passed	155
Skipped	2
Total	348

Regulatory standards compliance status

Azure CIS 1.1.0	10 of 23 passed controls
PCI DSS 3.2	2 of 33 passed controls
ISO 27001	1 of 22 passed controls
SOC TSP	0 of 13 passed controls

Azure CIS 1.1.0 PCI DSS 3.2 **ISO 27001** SOC TSP All

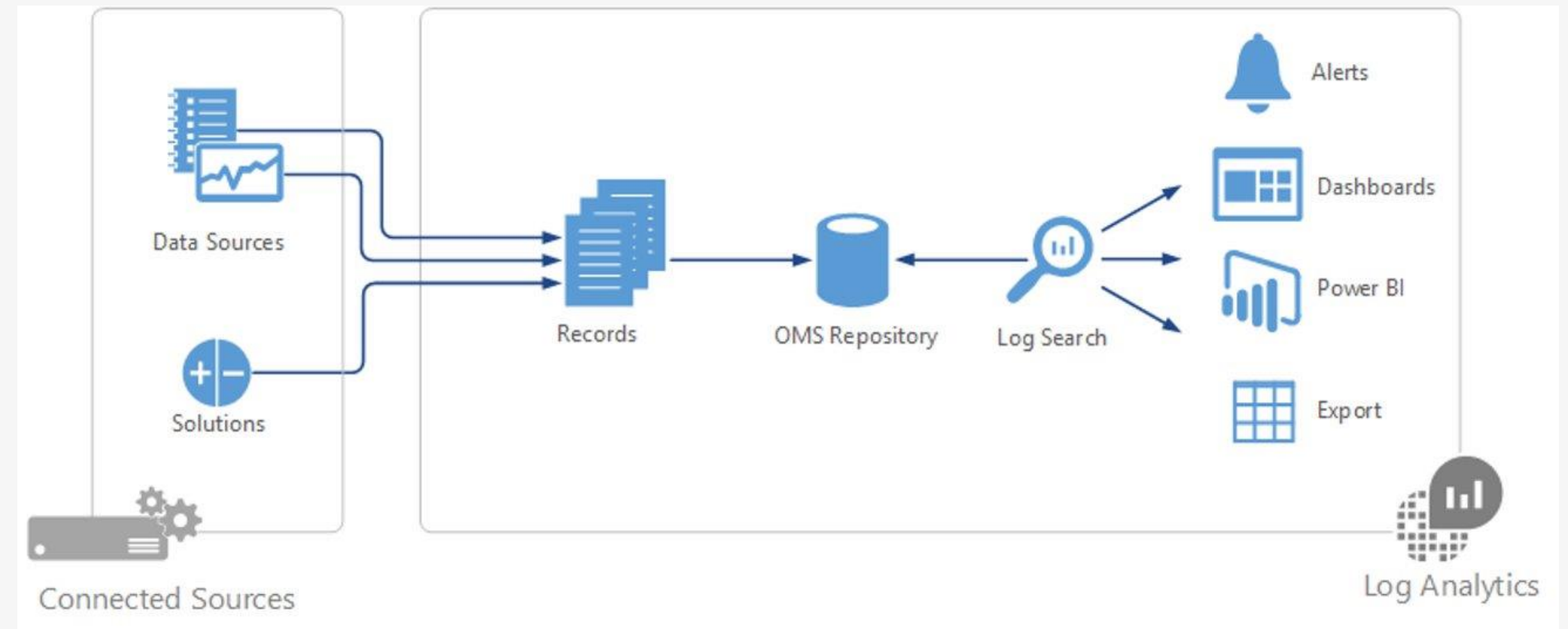
Under each applicable compliance control is the set of assessments run by Security Center that are associated with that control. If they are all green, it means those assessments are currently passing; this does not ensure you are fully compliant with that control. Furthermore, not all controls for any particular regulation are covered by Security Center assessments, and therefore this report is only a partial view of your overall compliance status.

Expand all compliance controls

- ▼ A5. Information security policies
- ▼ **A6. Organization of information security**
- ▼ A7. Human resources security
- ▼ **A8. Asset management**
- ▼ **A9. Access control**
- ▼ A10. Security incident response

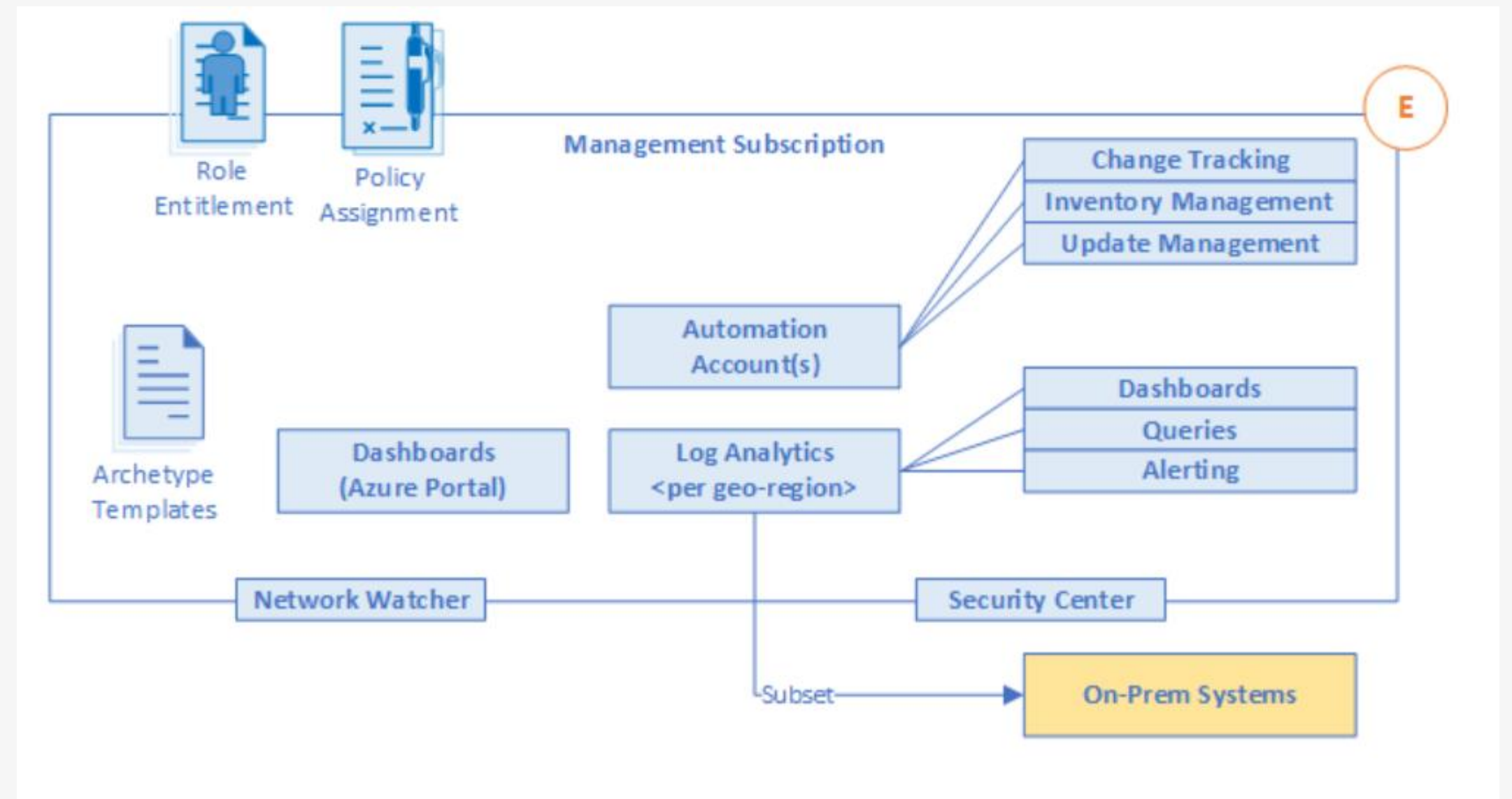
Monitoring

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- ▶ Left blank
- ▶ Left blank



Automation

- ▶ OS patching
- ▶ Update management
- ▶ Desired State Configuration
- ▶ Change Management
- ▶ Dependency overview
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Native capabilities to ensure compliant use of cloud resources



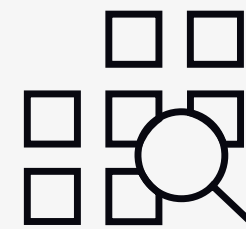
Policy

Real-time enforcement, compliance assessment and remediation



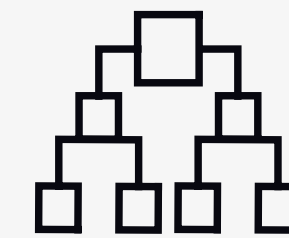
Blueprints

Deploy and update cloud environments in a repeatable manner using composable artifacts



Resource Graph

Query, explore & analyze cloud resources at scale



Management Group

Define organizational hierarchy



Cost

Monitor cloud spend and optimize resources

Introducing Azure Management Groups

Make environment management easier by grouping subscriptions together

- Grouping subscriptions into logical groups allow for new organization models
- Inheritance allows for single assignment of controls that apply to all subscriptions
- Aggregated views above the subscription level

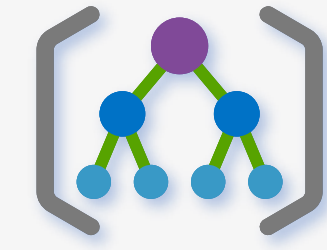
Create a hierarchy of management groups that fit your organization

- Create a flexible hierarchy that can be updated quickly
- Hierarchy doesn't need to model the organizations billing hierarchy
- Can easily scale up or down depending on the organizational needs

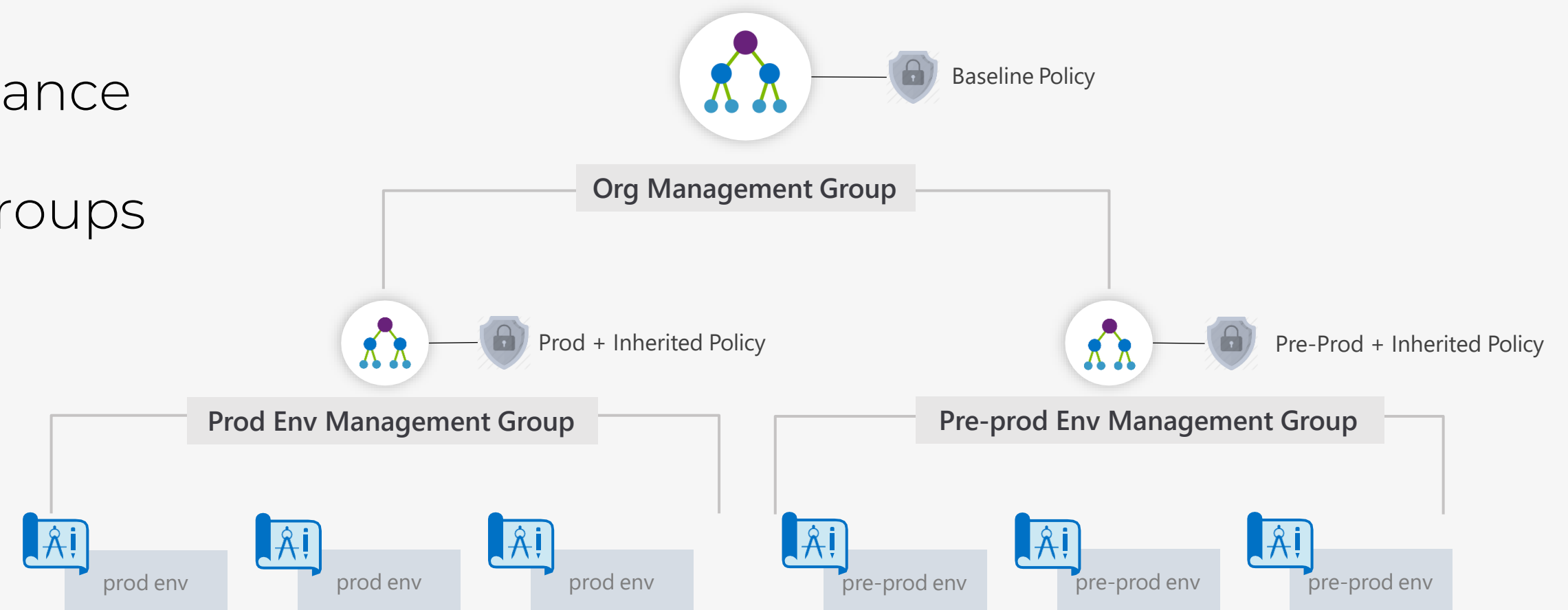
Apply governance controls with policies and access controls along with other Azure services

- Azure Resource Manager (ARM) objects that allow integrations with other Azure services
- Azure services:
 - Azure Policy
 - RBAC
 - Azure Cost Management
 - Azure Blueprints
 - Azure Security Center

Management Groups



- ▶ Organize resources in organization
- ▶ Manage access, policy and compliance
- ▶ Assign Policies to Management Groups
- ▶ Scope for cost management



Management Groups Facts

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Subscriptions

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Azure policy

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Azure Template deployment

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Azure Resource Graph

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Cost Management

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Azure cost management features

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Role based access control

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Resource tags

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Resource tags - recommendations

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Monitoring

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Conditional Access

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Azure AD Foundation

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Security Center

- Whiteboard session.
- Design Security Center.
 - Which features does your infrastructure need ?

