



OpsCompass

Zebulon Frantzich, Software Engineer

Charlie Cuddy, Pre-Sales Cloud Engineer

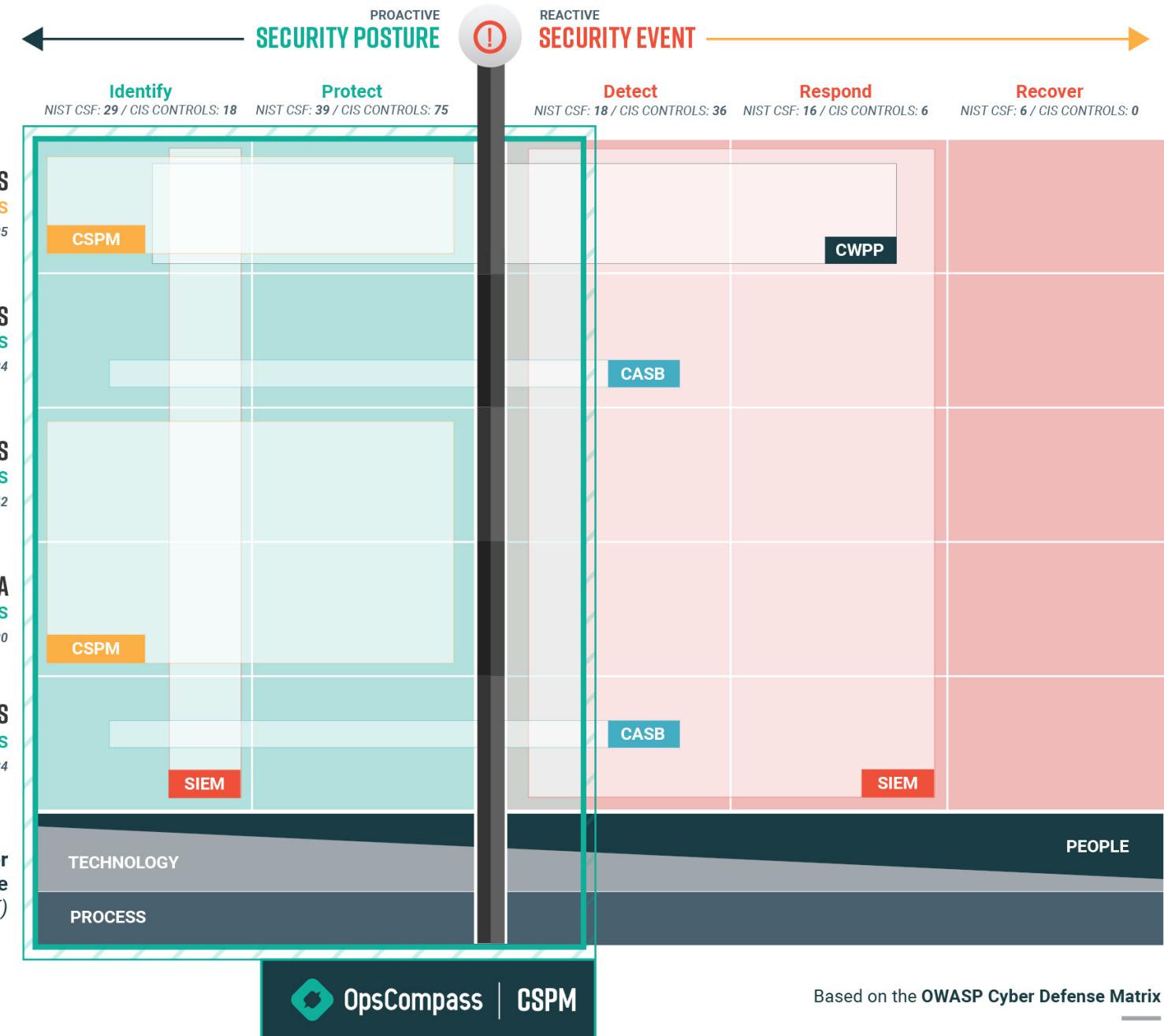
The Microsoft Cloud Adoption Framework for Azure

Overview and Deep Dive

Who is [OpsCompass](#)?

OpsCompass' SaaS solution provides actionable security and compliance insight into your enterprise's security posture allowing you to take full advantage of the cloud while keeping operations running smoothly.

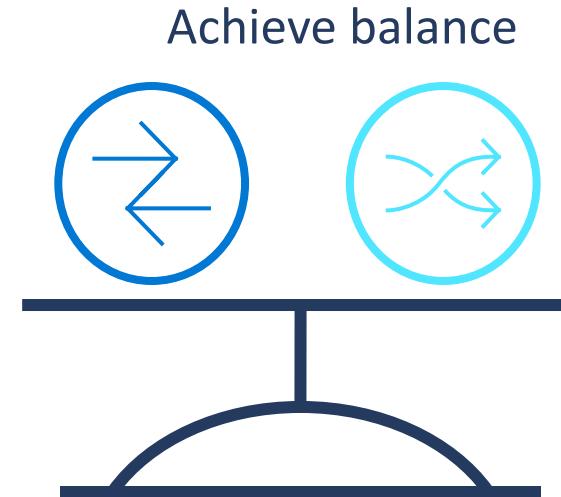
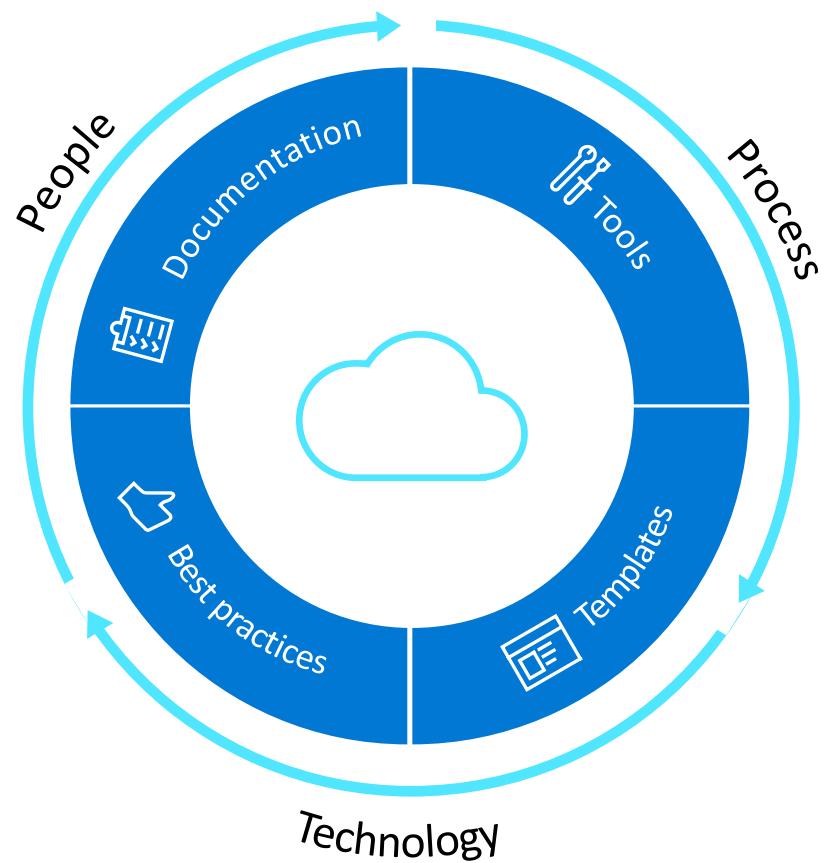
By providing proactive, real-time visibility and a full inventory across Azure, AWS, GCP, and/or Microsoft 365 in a single view; OpsCompass helps operationalizes your governance process, allowing your organization to confidently focus on their business goals in a more secure way.



Agenda

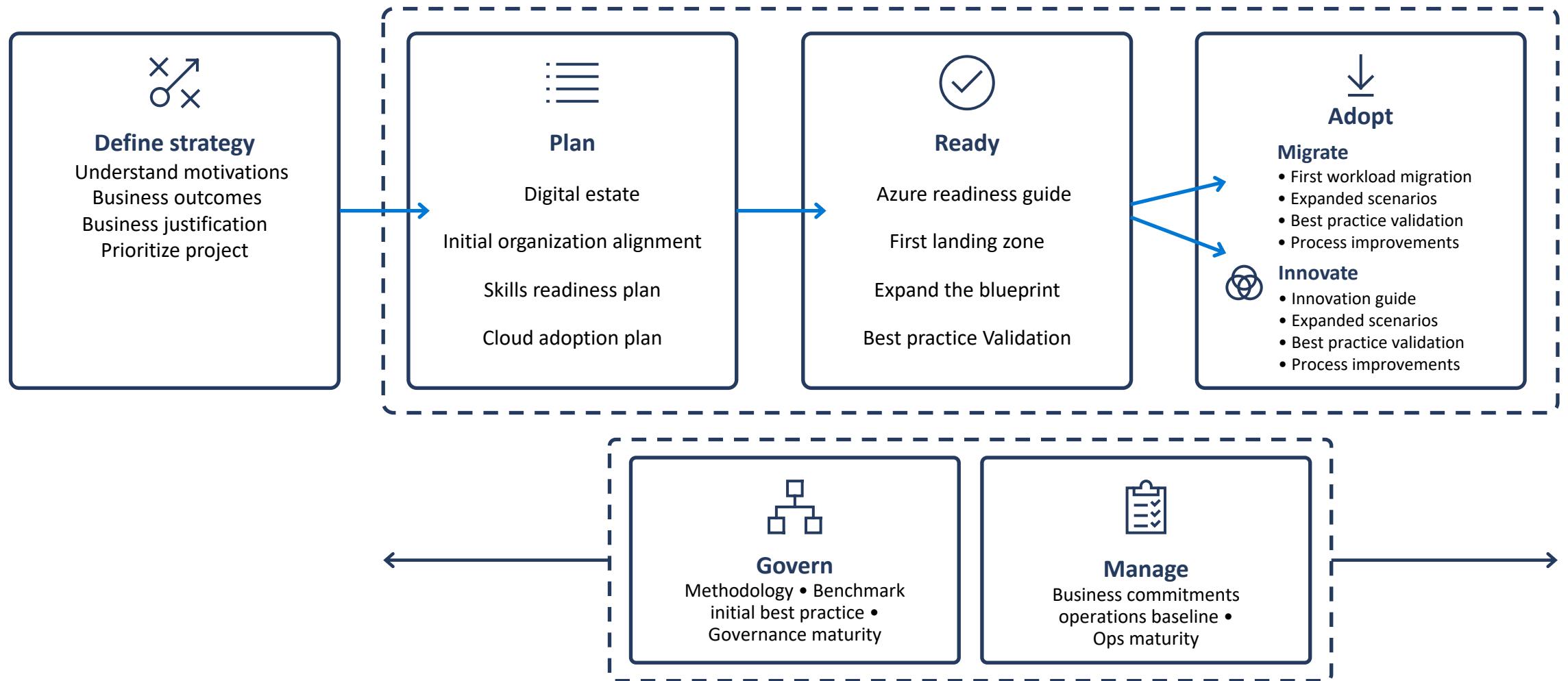
- Microsoft Cloud Adoption Framework Overview
 - *Zebulon Frantzich*
- Strategy
 - *Charlie Cuddy*
- Plan
 - *Zebulon Frantzich*
- Ready
 - *Charlie Cuddy*
- Demo: Governance/Manage
 - *Zebulon Frantzich*
- Conclusion & Questions

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





Any Questions about the CAF Overview before moving to Define a Strategy?



Define strategy

Understand motivations
Business outcomes
Business justification
Prioritize project



Develop a Cloud Adoption Strategy

- What is the motivation for the move to cloud?
- What are the business outcomes?
- Have you developed a clear business justification for the move to the cloud?
- What is the first project you'll move to the cloud?
- How will we govern and monitor throughout the cloud adoption – and beyond?

What is the motivation for the move to cloud?



Critical business events

- ✓ Datacenter exit
- ✓ Mergers & Acquisitions
- ✓ Reduction in capital expenses
- ✓ End of Support for mission critical technologies
- ✓ Regulatory compliance changes
- ✓ Deadlines of data sovereignty requirements
- ✓ Recent disruptions in IT stability



Migration triggers

- ✓ Cost savings
- ✓ Reduction in vendor or technical complexity
- ✓ Optimization of internal operations
- ✓ Increase business agility
- ✓ Prepare for new technical capabilities
- ✓ Scale to meet market or geographic demands



Innovation triggers

- ✓ Improve customer experiences or engagements
- ✓ Transform products or services
- ✓ Disrupt the market with new products or services
- ✓ Prepare or build new technical capabilities
- ✓ Scale to meet market or geographic demands

[Accelerate Migration](#)

[Migration Assessment](#)

[Innovation](#)

What are the business outcomes?

Engage different stakeholders and document desired outcomes across these categories



- **Fiscal**
- **Agility**
- **Reach**
- **Customer engagement**
- **Performance**
- **Security & Compliance**

How will develop a clear business justification?

- *Myth:* Cloud is always cheaper
- *Myth:* Everything should go into the cloud
- *Myth:* Public Cloud is not secure
- *Myth:* Moving to the cloud is like flipping a switch



- [Cloud Rationalization](#)
- [Hybrid Benefit](#)
- [Financial Model for Cloud Transformation](#)

What is the first project you'll move to the cloud?



Project Expectations

- Project is a source of learning
- Probably require additional effort before it is ready for production
- Goal is to establish clear requirements for a longer-term production solution.

Project Criteria

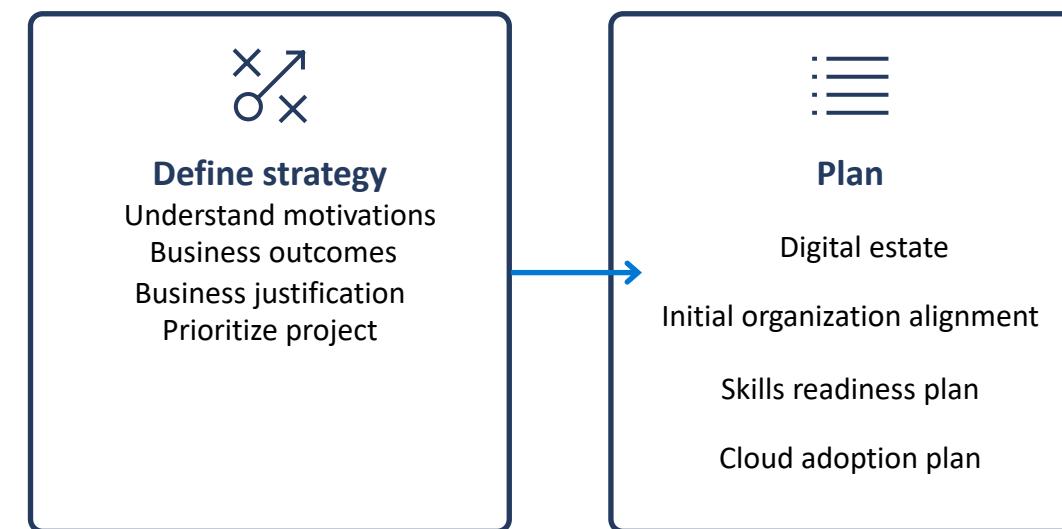
- Align with your motivations for cloud adoption
- Demonstrate progress towards a defined business outcome

Discussions to have while defining strategy

Example:

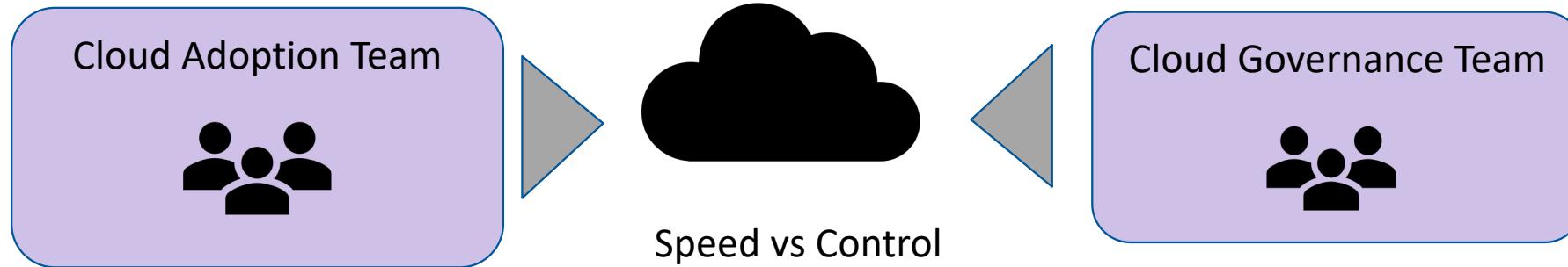
- 1) What do you expect from your move to the cloud?
- 2) What are you moving to the cloud today?
- 3) How has your transition to the cloud changed your organization?
- 4) What are your short, medium, and long-term objectives?
- 5) How are you thinking about dual cloud?
- 6) What are the criteria which define where apps or data reside?
- 7) What are the risks which you have identified?
- 8) What are the next applications and databases which you have identified to move to the cloud?

Any Questions about Strategy before moving on to Establishing a Plan?



Plan | Initial Org Alignment

Implementing Cloud adoption plan requires some initial alignment of different stakeholders who will make the plan a reality

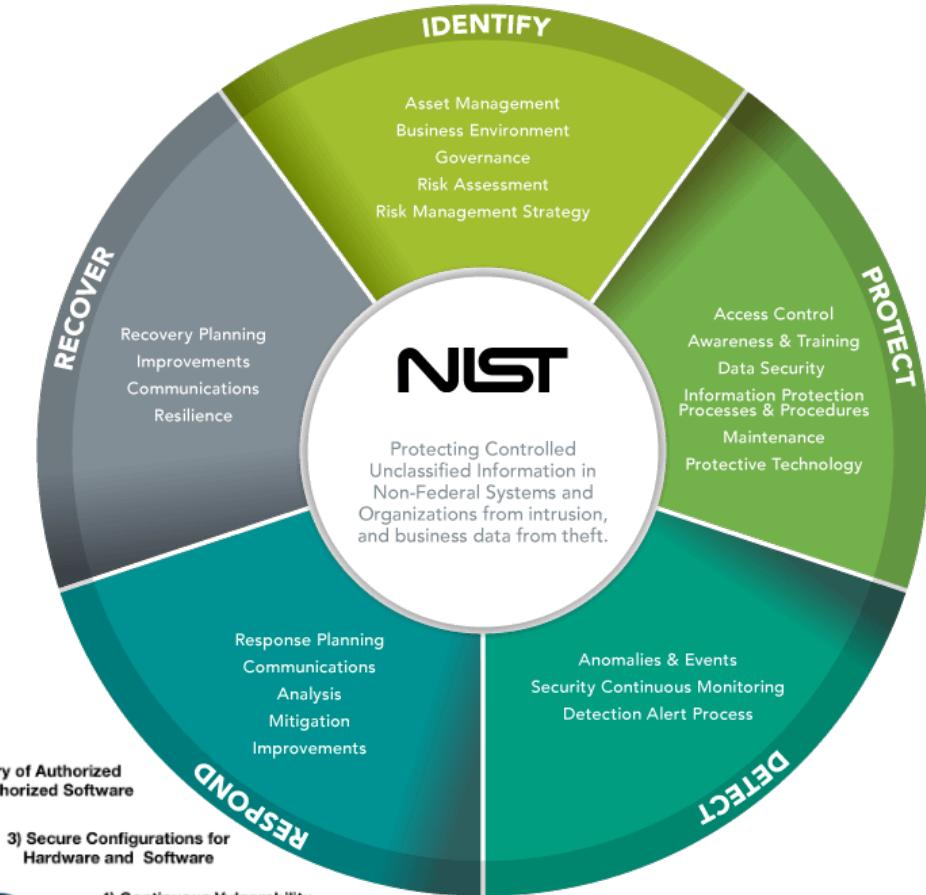
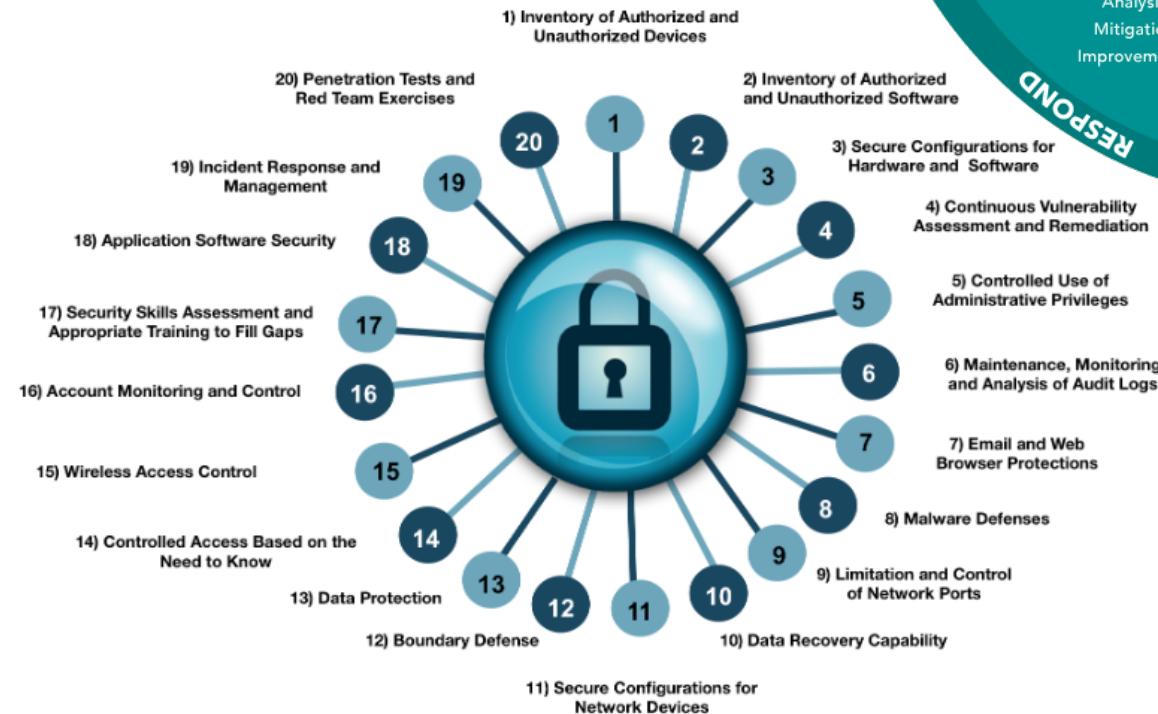


- Create a balance between speed or *moving quickly* and control or *reducing risks* by have teams accountable for adoption and governance.
- While cloud adoption team is required to execute cloud adoption tasks, governance team ensures processes and controls are implemented

Decide on a standard

- Rapidly define and prioritize a starting point for security
- Direct actions with immediate, high-value payoff
- Outline baseline information security control best practices

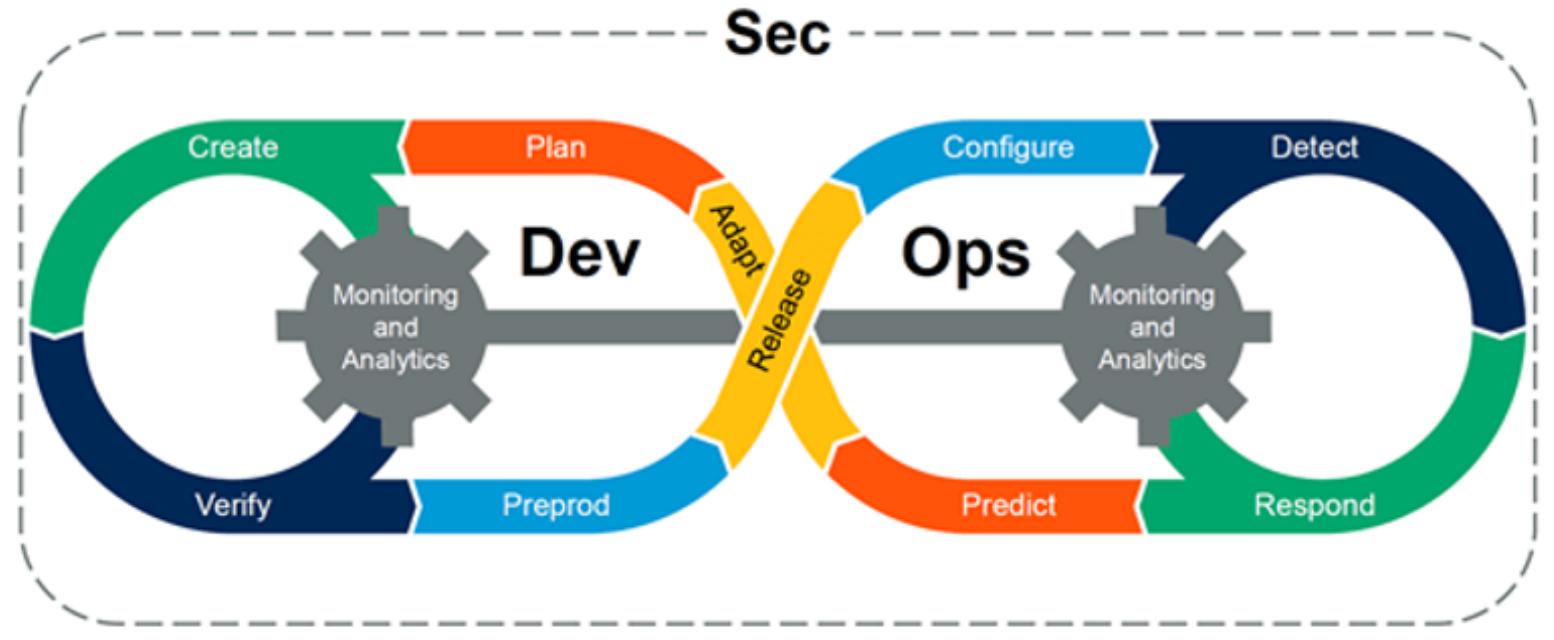
CIS & NIST CSF Benchmarks



Operationalize Cloud Governance

- Establish an MVP with baseline enforcement that is audit ready
- Flexibility for Continuous Monitoring and Iteration
- Mapped and Benchmarked to Industry Standards

DevSecOps: Seamlessly Integrating Security in DevOps



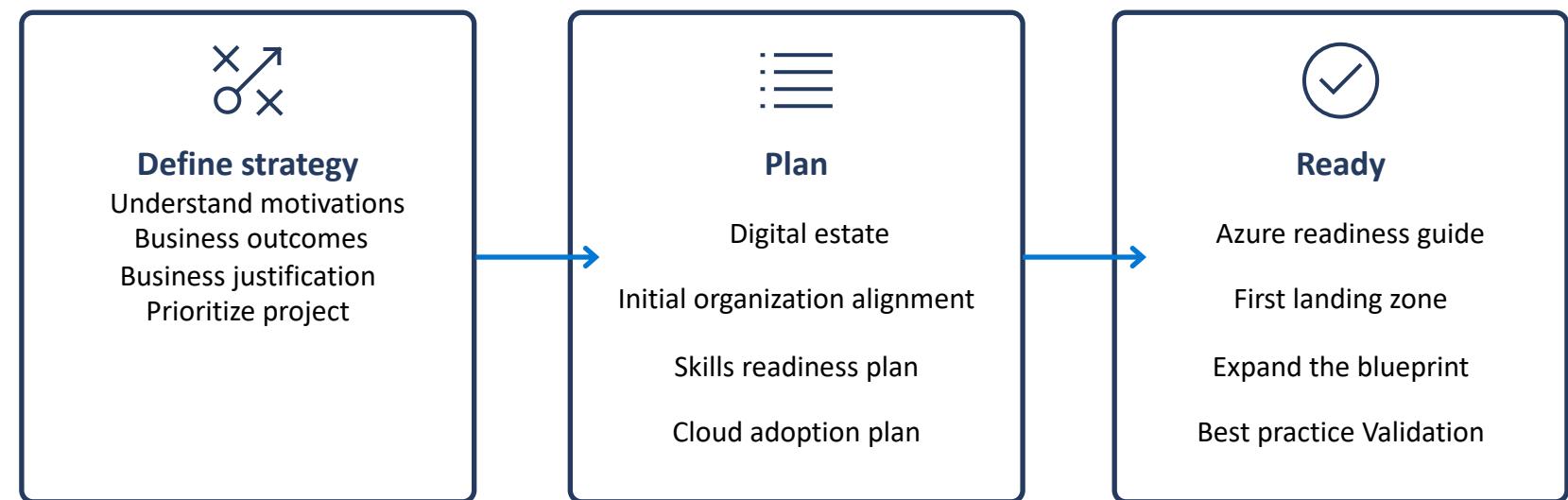
© 2018 Gartner, Inc. and/or its affiliates. All rights reserved. Gartner is a registered trademark of Gartner, Inc. and its affiliates.

Determine Your Cloud Adoption Plan

Example:

- 1) How are you organizing your people and teams for cloud transformation
- 2) Where does accountability reside for application creation and availability
- 3) What are the current skills gaps?
- 4) How do your people train and skill up?
- 5) What is the prioritized list of applications you are moving to the cloud?

Any Questions about Planning before moving to the Ready Phase?



Ensure the environment is Ready for the cloud plan

Ready establishes a cloud foundation or adoption target that can provide hosting for any adoption efforts.

1 Azure Readiness Guide

Azure Readiness guidance in the Cloud Adoption Framework

[Readiness Checklist](#)

2 First landing zone

Leverage the Cloud Adoption Framework migrate landing zone blueprint

[Landing Zone Examples](#)

3 Expand the blueprint

Use the landing zone considerations to enhance the blueprint template

[Blueprint Documentation Link](#)

4 Best practices

Validate landing zone modifications against best practices

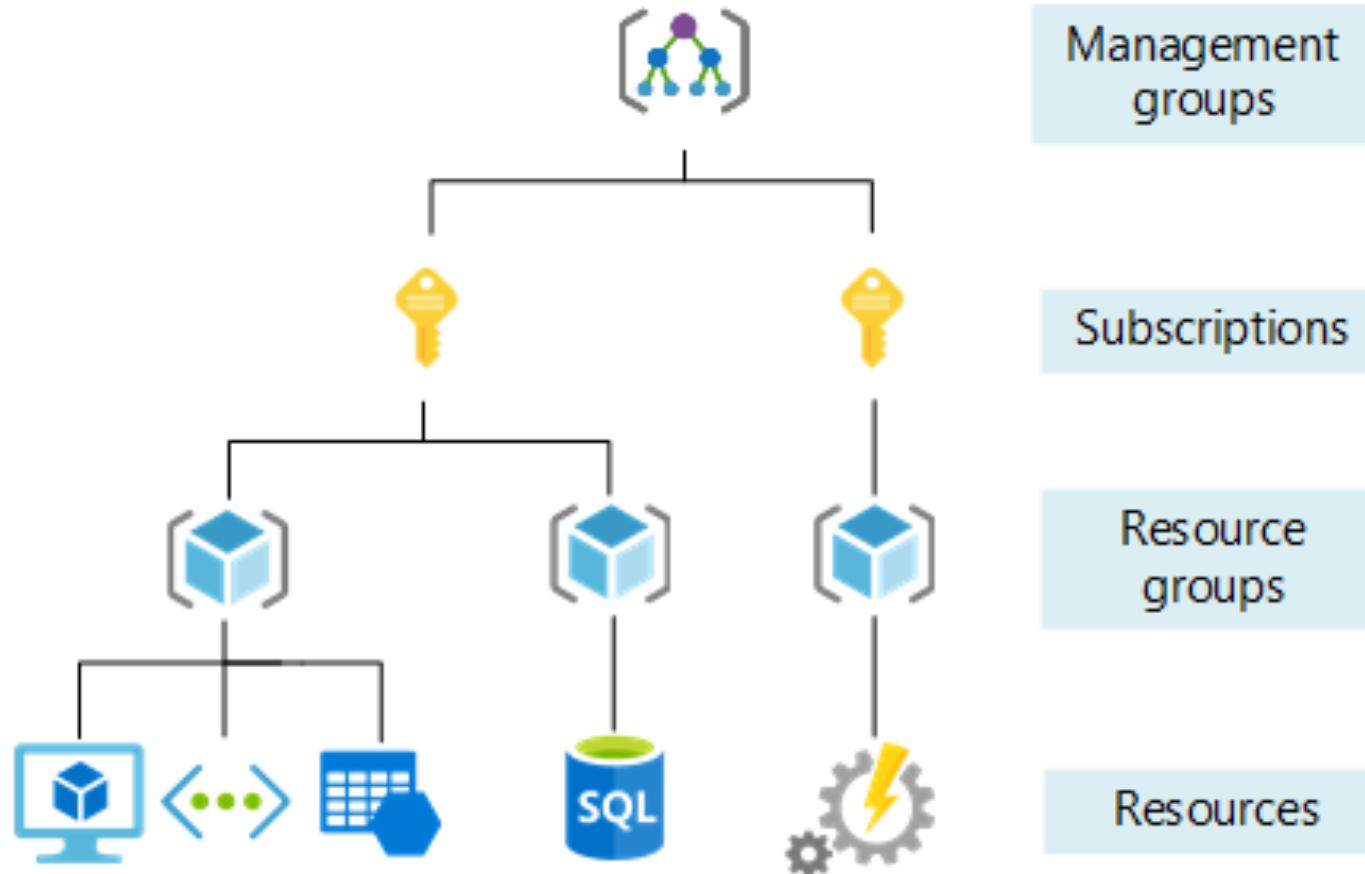
[Fundamental, Network, Identity, Storage, Database, Cost Suggestions](#)

Readiness Guide

- Learn the pre-requisite tools & approaches important to all adoption efforts
- Identify landing zone considerations required to personalize the blueprint
- Deploy a blueprint to establish your first migration landing zone
- Leverage well defined best practices as a guide for expanding the blueprint



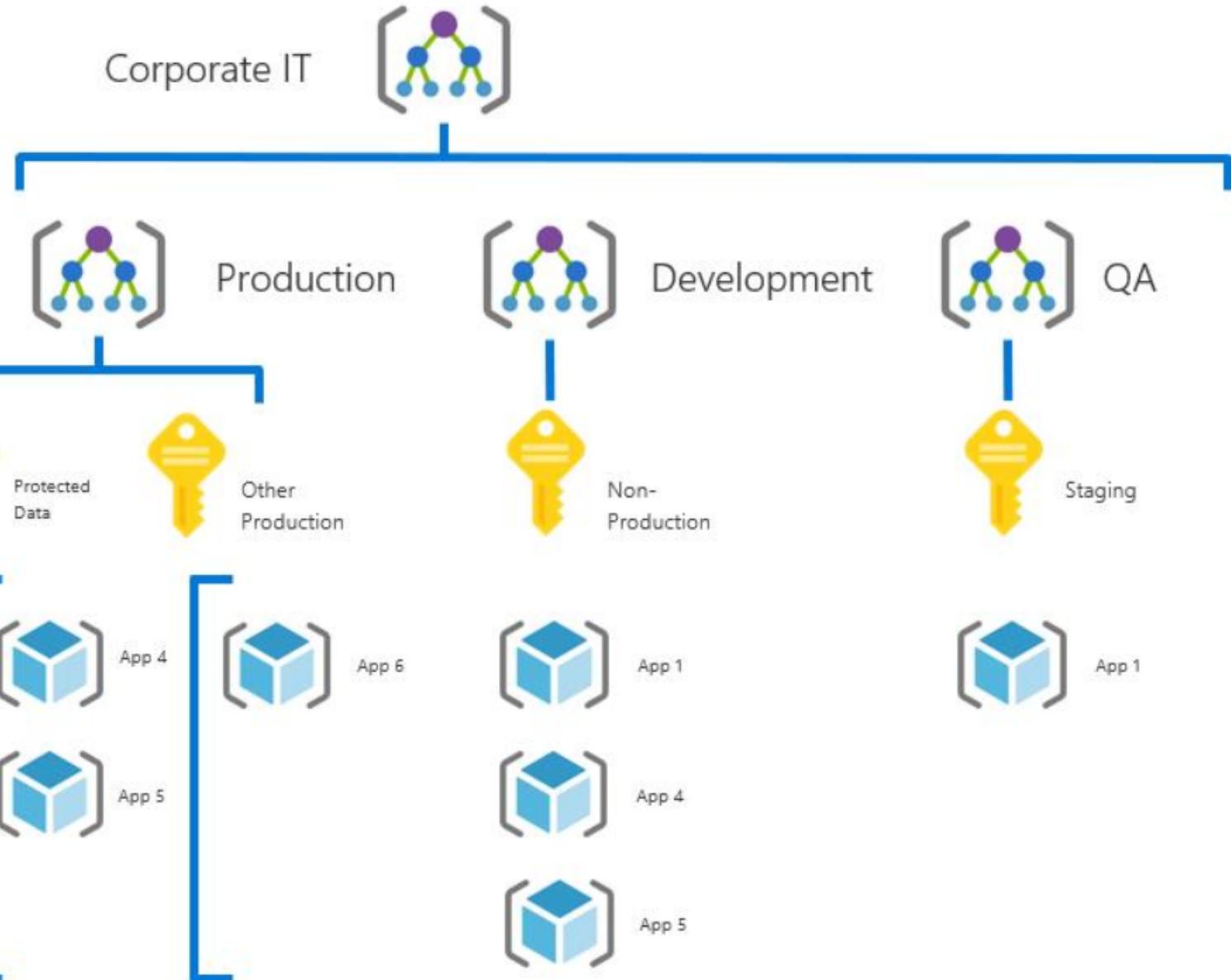
Ready | Organize your Azure Resources



Hierarchy within the Azure platform

- Policy Implementation
- Access control (RBAC)
- Cost Management
- Naming conventions
- Apply resource tagging

Management Group



Resource Group

Azure Quickstart Templates (An example below: [link](#))

Connect to a storage account from a VM via private endpoint

by Paolo Salvatori
Last updated: 6/18/2020

[Deploy to Azure >](#)
[Browse on GitHub](#)

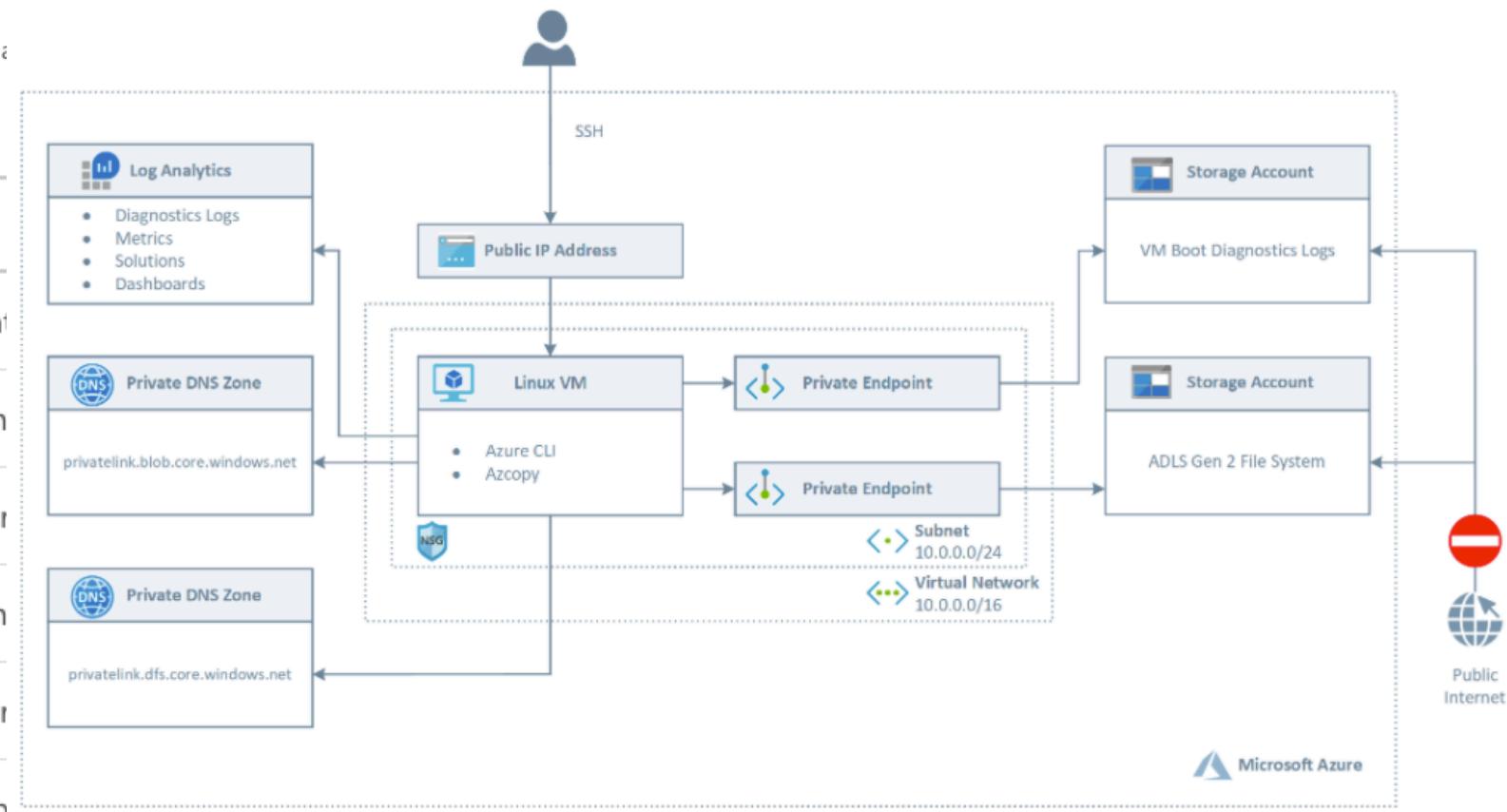
Architecture

The following picture shows the architecture and network topology of the sample.

This sample shows how to use connect a virtual network to access a blob storage account.

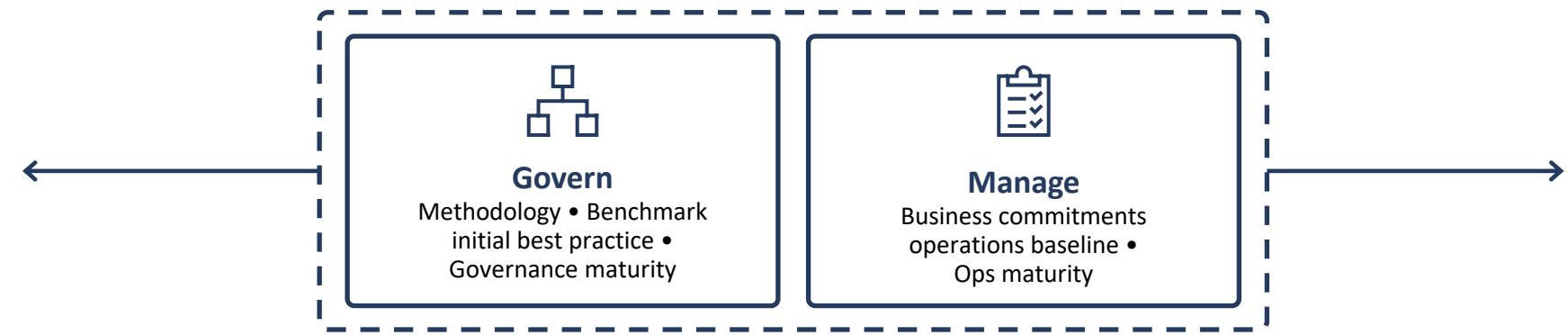
Parameters

PARAMETER NAME	DESCRIPTION
location	Specifies the location.
virtualNetworkName	Specifies the name of the virtual network.
virtualNetworkAddressPrefix	Specifies the address prefix of the virtual network.
subnetName	Specifies the name of the subnet.
subnetAddressPrefix	Specifies the address prefix of the subnet.
adlsStorageAccountName	Specifies the global endpoint name for the ADLS Gen 2 File System.





Any Questions about the Ready Phase before we demo how we help Govern and Manage?



CAF Governance Model

Governance End State that fosters trust and builds confidence

Govern <http://aka.ms/CAF/Gov>

Define Corporate Policy

Business Risks



Document evolving business risks and the business' tolerance for risk, based on data classification and application criticality

Policy & Compliance
Convert Risk decisions into policy statements to establish cloud adoption boundaries.

Process
Establish processes to monitor violations and adherence to corporate policies.

Five Disciplines of Cloud Governance

Cost Management

Evaluate & monitor costs, limit IT spend, scale to meet need, create cost accountability

Security Baseline

Ensure compliance with IT Security requirements by applying a security baseline to all adoption efforts

Resource Consistency

Ensure consistency in resource configuration. Enforce practices for on-boarding, recovery, and discoverability

Identity Baseline

Ensure the baseline for identity and access are enforced by consistently applying role definitions and assignments

Deployment Acceleration

Accelerate deployment through centralization, consistency, and standardization across deployment templates

Corporate Policy

Governance is a big, intimidating topic. Establish proper scope by mitigating **tangible** risks through corporate policy.

Cloud Governance Disciplines

Governance is a team sport.

Empower multiple team members by decomposing corporate policy changes into five actionable disciplines.

Cloud Governance Team

A team of governance minded cloud architects can evolve these disciplines, ensure governance consistency, and accelerate deployment.

Any closing questions?



Additional Resources

- [Microsoft Cloud Adoption Framework for Azure](#)
- [Start Your Cloud Journey](#)
- [CAF Tools and Templates](#)
- [What is the CAF?](#)
- [What's new in the CAF?](#)
- [Govern and Manage MVP](#)
- [Microsoft Learn: CAF](#)
- [Microsoft Azure Well-Architected Framework](#)



OpsCompass

Up Coming Event:

Part 1 (of 2) July 22nd: [Organizational Evolution in a Cloud First World](#)

Part 2 (of 2) August 5th: [Organizational Evolution in a Cloud First World](#)

14 Day Free Trial of OpsCompass
<https://discover.opscompass.com/sign-up>

Rapid Prototype CAF Opportunity
<https://discover.opscompass.com/rapidprototype>

Contact us

Zebulon Frantzich

zeb.frantzich@opscompass.com

Charlie Cuddy

charlie.cuddy@opscompass.com