



TUGA IT

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An aerial photograph of a city skyline, likely New York City, taken from a high vantage point. The sky is a mix of orange, yellow, and blue, suggesting a sunset or sunrise. Several tall skyscrapers are visible, with some emitting thick plumes of white smoke or steam that rise into the air. The buildings are densely packed, and the overall scene has a dramatic, high-contrast feel.

Azure Governance

And Why You Should Care About This

Rolf McLaughlin (MASUCH)
Cloud Solution Architect
Microsoft

Microsoft

Governance [gov·ern·ance] – a definition

Governance is all of the processes of governing, whether undertaken by a government, market or network, whether over a family, tribe, formal or informal organization or territory and whether through the laws, norms, power or language of an organized society.

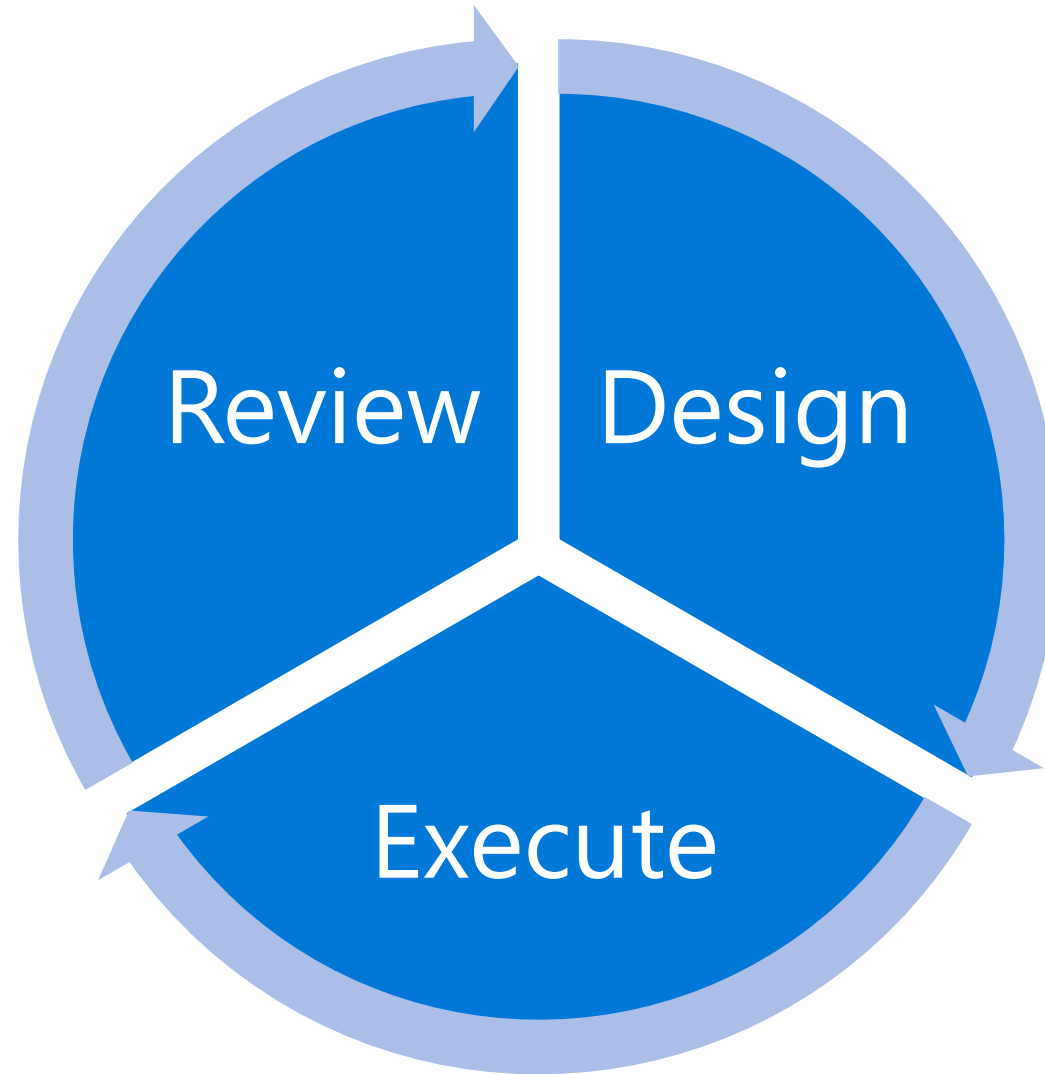
It relates to "the processes of interaction and decision-making among the actors involved in a collective problem that lead to the creation, reinforcement, or reproduction of social norms and institutions."

In lay terms, it could be described as the political processes that exist in between formal institutions.

<https://en.wikipedia.org/wiki/Governance>

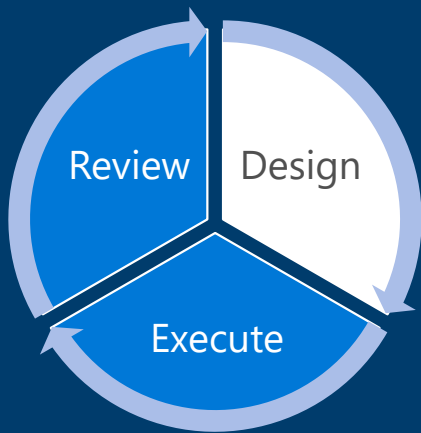
COMPONENTS OF GOVERNANCE

For Microsoft,
governance has three
components that need
attention



DESIGN OF GOVERNANCE

This is the why do we
do things



This component is derived from the customer's **cloud vision**. It comes together with the customer's constraints such as **regulatory obligations** or **privacy-related data** that needs to be processed.

Cloud envisioning

Digital transformation in real life

The main pillars of the digital transformation





The pillars are connected to one another.

Some customers work on all, pillars, others are working on only one pillar at a time.



Name the action areas, give them priorities and the needed resources, and articulate the desired outcomes.

This should be understood as the company's North Star.



"We want to have 50 percent of our compute power moved to the cloud by 2020."

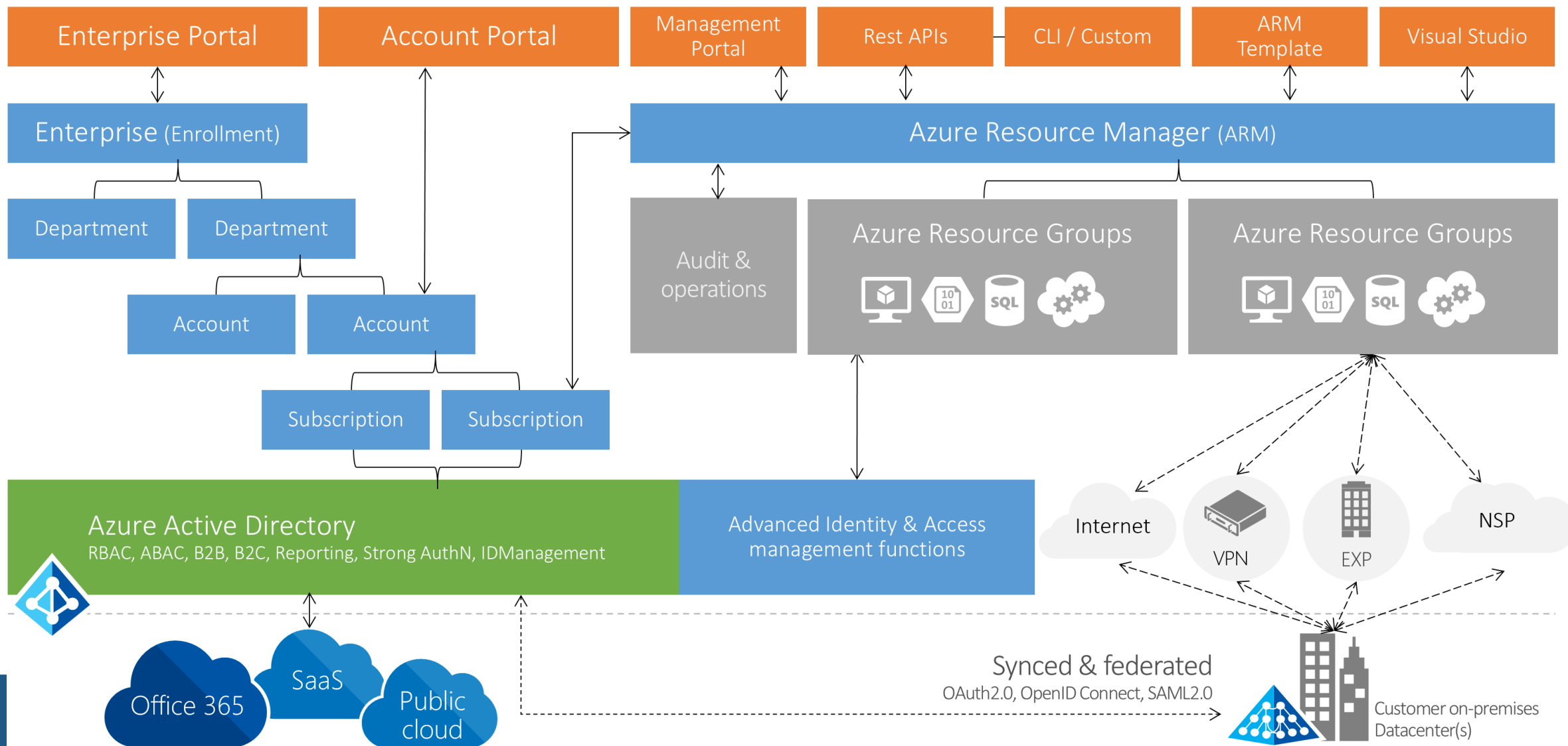
"All our new products will be completely cloud-based on DevOps methodologies starting this fiscal year."

Cloud Readiness

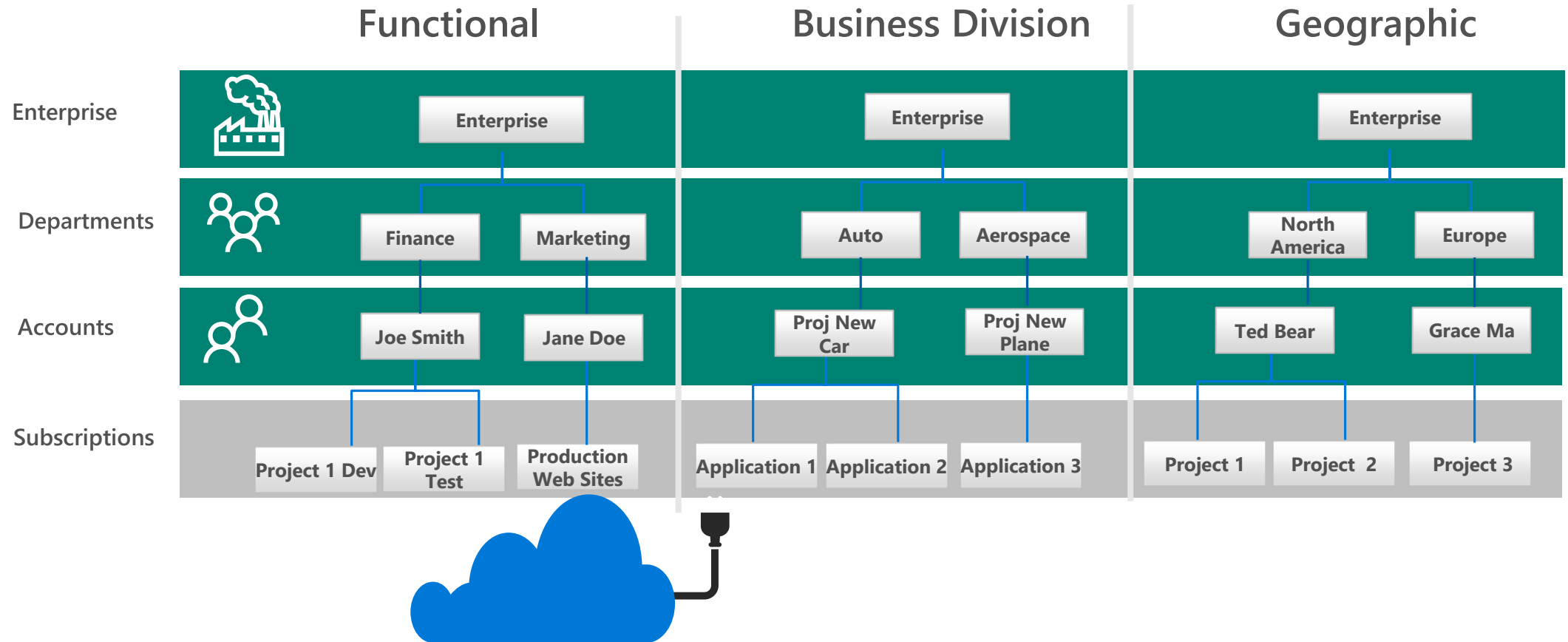
CLOUD READINESS FRAMEWORK

A readiness framework can help you to embed your cloud activities into your existing procedures, operational tasks, and responsibilities to make sure you, as the enterprise, stay in control of your cloud journey.

For some companies, the creation of a readiness framework is a huge task because their existing structures are challenged in a way that is very demanding. But that is the basic principle of the digital transformation.



Departments/Accounts – A Foundation



Adapted from the Azure Direct EA Onboarding Guide:

https://eaportalonboardingvideos.blob.core.windows.net/onboardingvideos/AzureDirectEACustomerOnboardingGuide_En.pdf

COMPONENTS OF A FRAMEWORK

Editor note: This is not
a comprehensive list...



ORGANIZATION CLOUD READINESS

Don't forget the people



Cloud Competence Center

Methods

Blueprints

Development of Skills and Material

Enterprise

Partner,
Supplier
and
customer

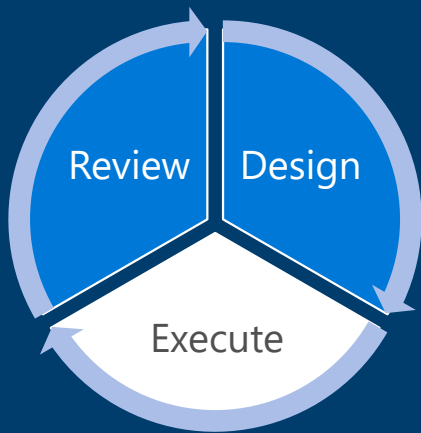
People

Certification

Enablement

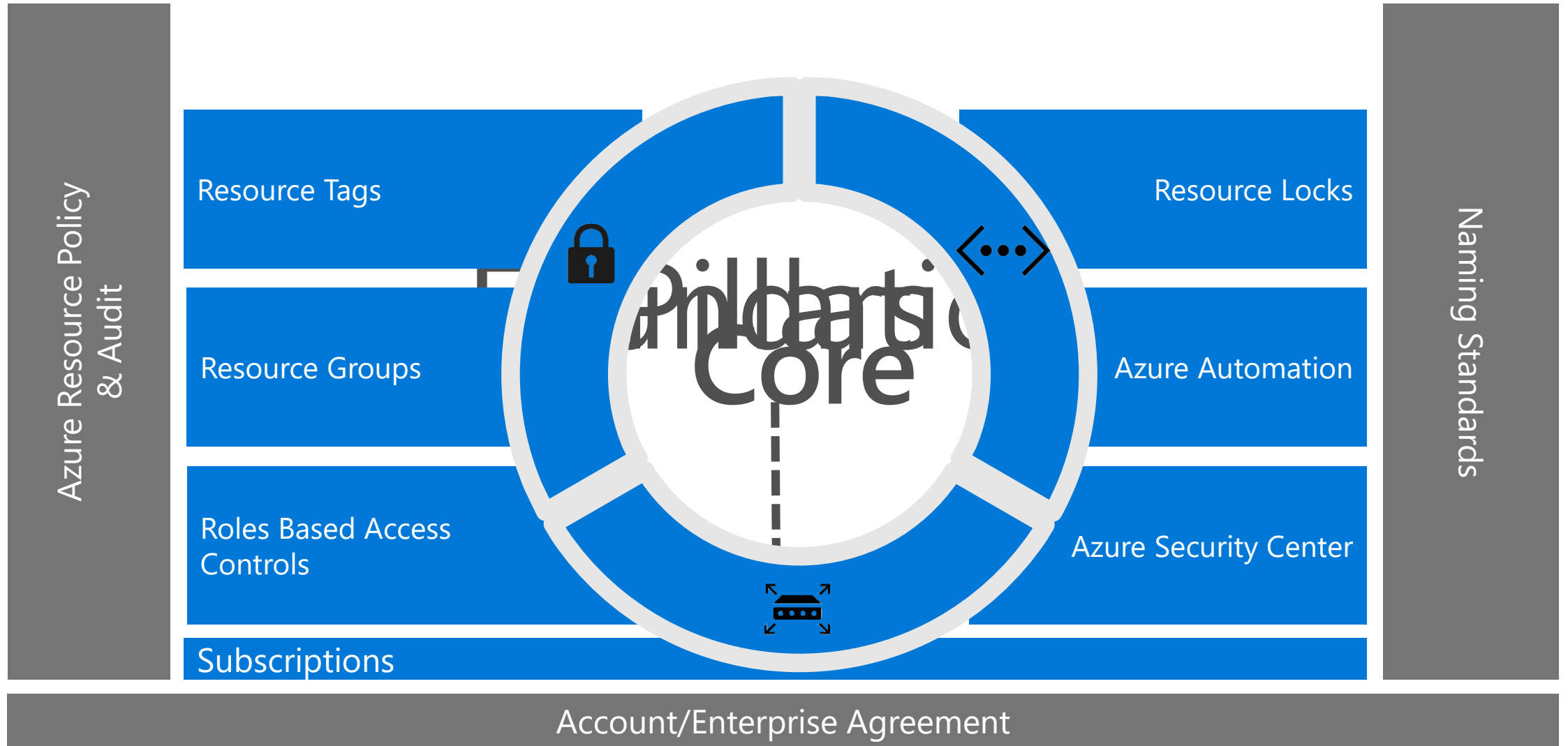
EXECUTION OF GOVERNANCE

This is the how we do things



This component contains all of the measures to fulfill the required needs, like **reporting**, **encryption**, **policies**, and so on, to ensure that the defined component is followed by **measures that can be implemented and controlled.**

The Azure Enterprise Scaffold



AZURE RESOURCE MANAGER

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview>

- **Resource**
 - A manageable item that is available through Azure.
- **Resource group**
 - A container that holds related resources for an Azure solution.
- **Resource provider**
 - A service that supplies the resources you can deploy and manage through Resource Manager.
- **Resource Manager template**
 - A JavaScript Object Notation (JSON) file that defines one or more resources to deploy to a resource group.
- **Declarative syntax**
 - Syntax that lets you state "Here is what I intend to create" without having to write the sequence of programming commands to create it.

Azure Policy

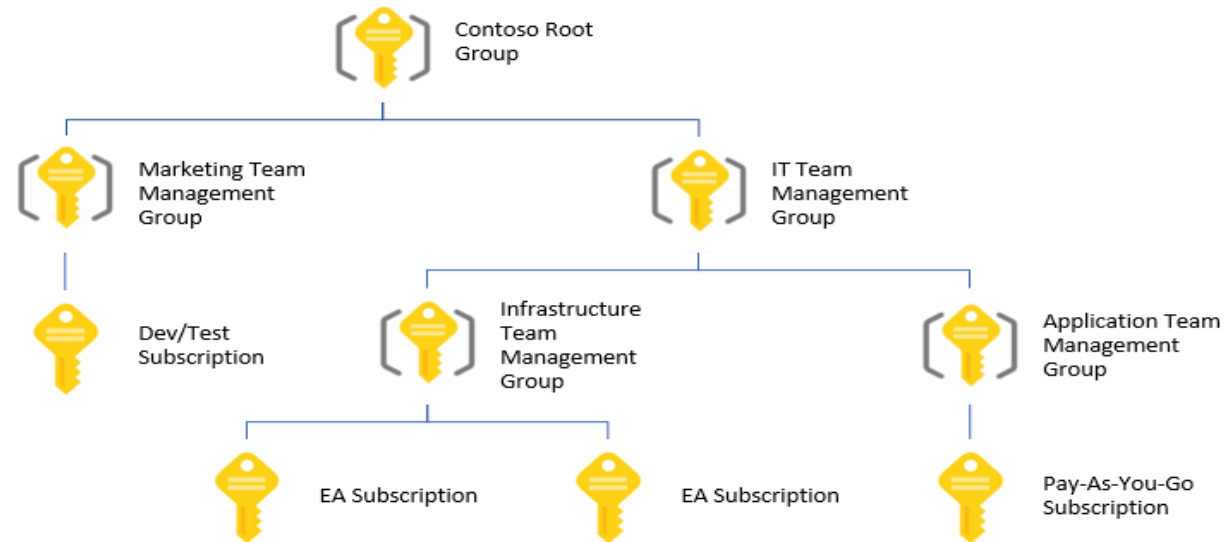
Service	Rules	Evaluation
Azure Policy is a service in Azure that you use to create, assign and, manage policy definition	Policy definitions enforce different rules and actions over your resources	Azure Policy runs an evaluation of your resources, scanning for those not compliant with the policy definitions you have

<https://docs.microsoft.com/en-us/azure/azure-policy/azure-policy-introduction>

<https://docs.microsoft.com/en-us/azure/azure-policy/json-samples>

Organize your resources with Azure Management Groups

If you have multiple subscriptions, you can organize them into containers called "management groups" to help you manage access, policy, and compliance across your subscriptions.



These containers give you enterprise-grade management at a large scale no matter what type of subscriptions you might have.

Assigning administrator roles in Azure Active Directory as part of the RBAC story



Divide

- Using Azure Active Directory (Azure AD), you can designate separate administrators to serve different functions



Scope

- Administrators have access to various features in the Azure portal depending on their role



Converge

- A user who is assigned an admin role will have the same permissions across all of the cloud services

26 predefined roles
(Feb 2018)

roles are described in detail as
well as what they can do and
what not

Custom roles possible

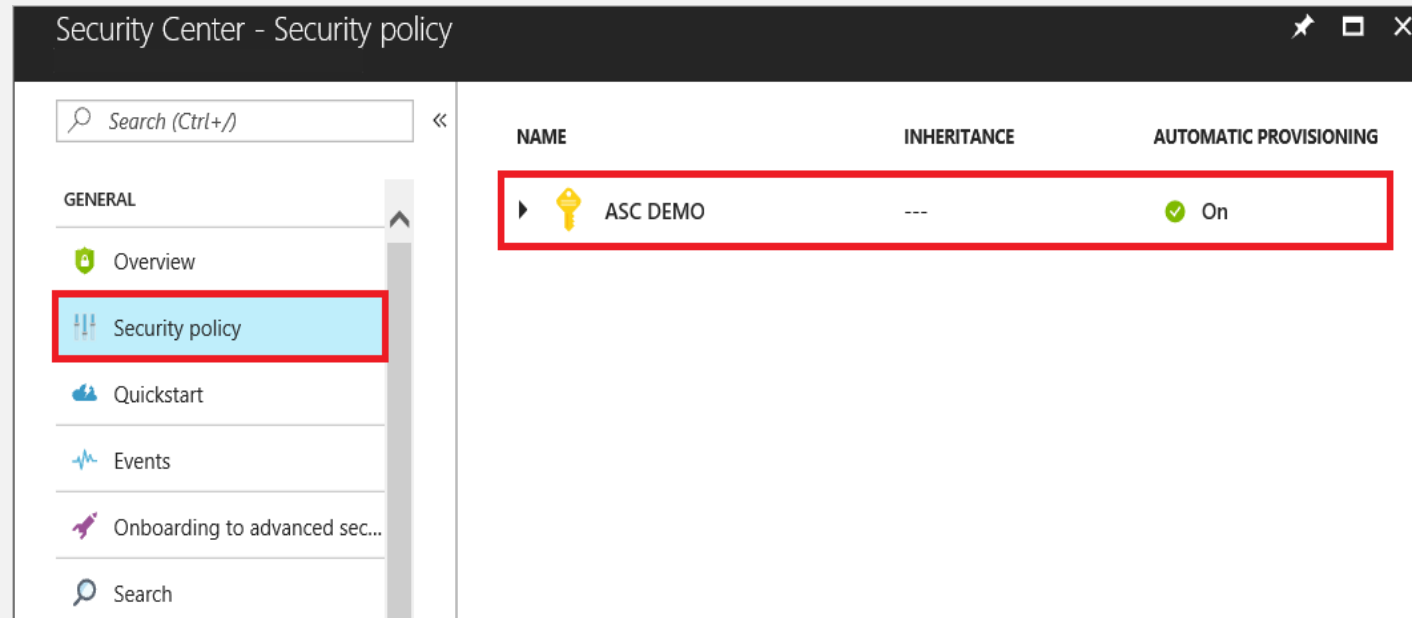
More to come

<https://docs.microsoft.com/en-us/azure/active-directory/active-directory-assign-admin-roles-azure-portal>

<https://docs.microsoft.com/en-us/azure/active-directory/role-based-access-control-custom-roles>

Customize OS security configurations in Azure Security Center (Preview) – GPOs the Azure way

Azure Security Center monitors security configurations by applying a set of over 150 recommended rules for hardening the OS, including rules related to firewalls, auditing, password policies, and more.



If a machine is found to have a vulnerable configuration, Security Center generates a security recommendation.

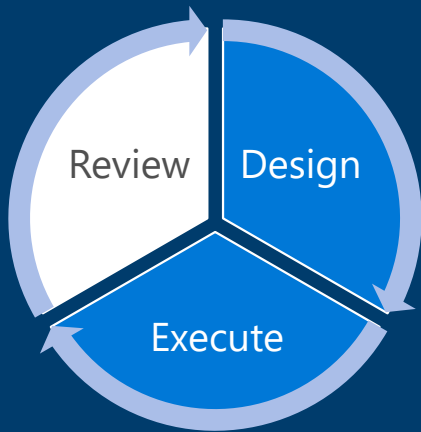
SECURE DEVOPS KIT FOR AZURE

- Secure the subscription
- Enable secure development
- Integrate security into CI/CD
- Continuous Assurance
- Alerting & Monitoring
- Cloud Risk Governance



REVIEW OF GOVERNANCE

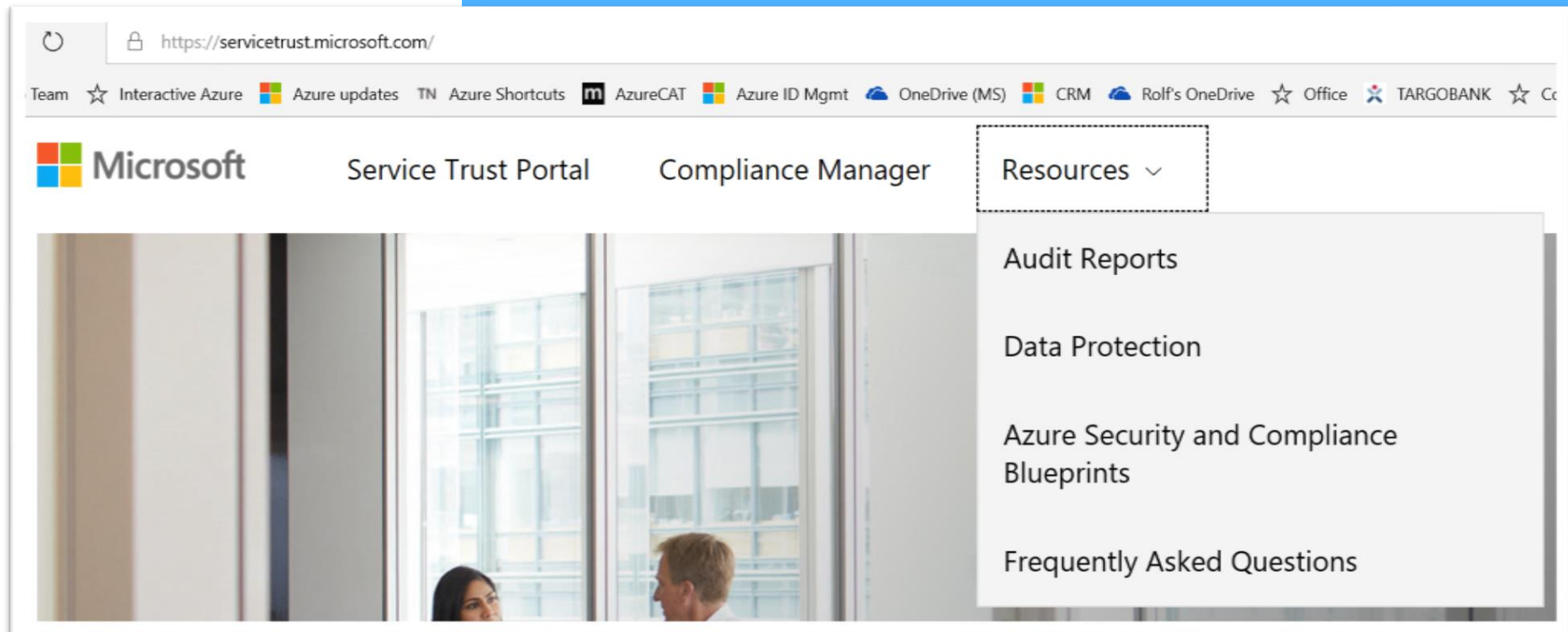
This is the how we
verify things



This component ensures that the measures are **fulfilling** the intended purpose, **review** of the results and verifies that the implementation **follows the design**.

SERVICE TRUST PORTAL

And yes, it is not only Azure
we are talking about



<https://servicetrust.microsoft.com/>

COMPLIANCE MANAGER

The fastest way to
streamline your
organization's
compliance process

Track Compliance

Manage your organization's regulatory compliance activities in the Microsoft Cloud

Audit Reports

See how the Microsoft Cloud complies with standards that matter to your organization

Data Protection

Get details on how the Microsoft Cloud is designed to protect customer data

AZURE STRATEGY AND IMPLEMENTATION GUIDE

Authors:

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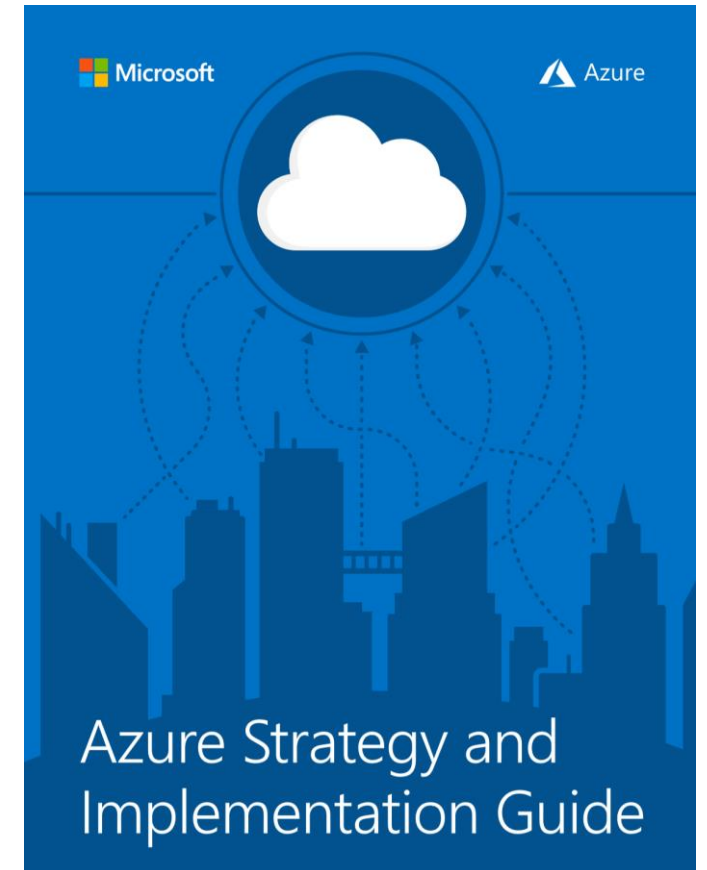
Tyler Ayers (CSA)

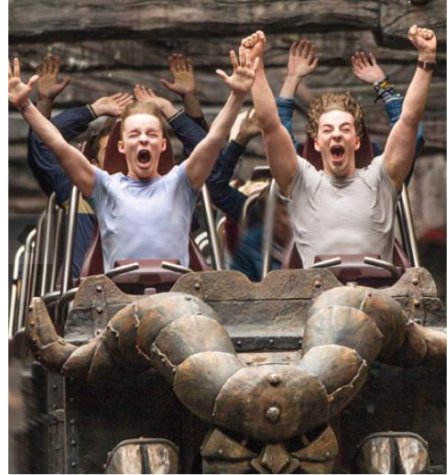
Rolf McLaughlin (MASUCH) (CSA)

Introduction by Britt Johnston,
Chief Technology Officer,
Cloud + Enterprise at Microsoft

New
version
7/6/2018

- While it's clear what the potentials of cloud computing are for your organization, it may be unclear the adjustments your IT organization will need to make in transitioning to the cloud.
- This guide is designed to help your IT team more effectively implement and integrate cloud technologies. You'll explore key cloud concepts as well as Azure-specific tips and tactics around:
 - General architectures that incorporate security, identity, and cloud design principles.
 - DevOps and how it fits with cloud technologies.
 - Integrating, planning, and managing cloud resources.







Thank You!

ευχαριστώ Salamat Po متشکرم شکراً Grazie

благодаря ありがとうございます Kiitos Teşekkürler 谢谢

ໂພນຄູນຄວັບ Obrigado شكریه Terima Kasih Dziękuję

Hvala Köszönöm Tak Dank u Wel ДЯКУЮ Tack

Mulțumesc спасибо Danke Cám ơn Gracias

多謝晒 Ďakujem תודה நன்றி Děkuji 감사합니다



PLEASE FILL IN THE
EVALUATION FORM.

YOUR OPINION IS
IMPORTANT!

AT THE ENTRANCE AFTER THE LAST SESSION OF THE DAY



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