

# Hybrid Identity

Michał Smereczyński  
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# Michał Smereczyński



Azure Lead Architect @BlueSoft  
Dev<sub>(py)</sub>Ops<sub>(Linux)</sub>

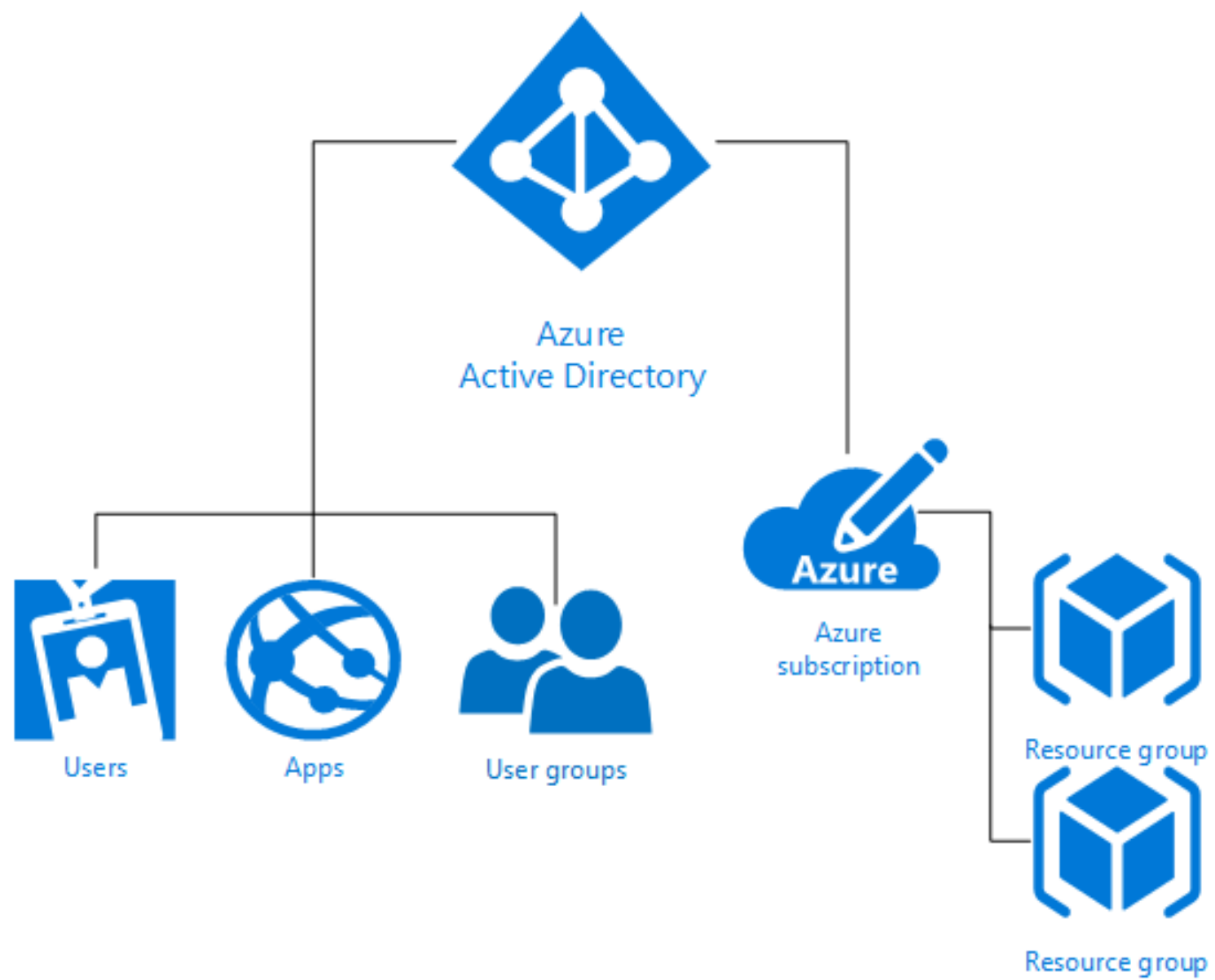


@smereczynski

<https://lnx.azurewebites.net>

<http://AzureTruck.com>

It's all about identity





Azure Active Directory



Access Control

# Resource Management

## **Azure Resource Manager (ARM)**

Azure Portal

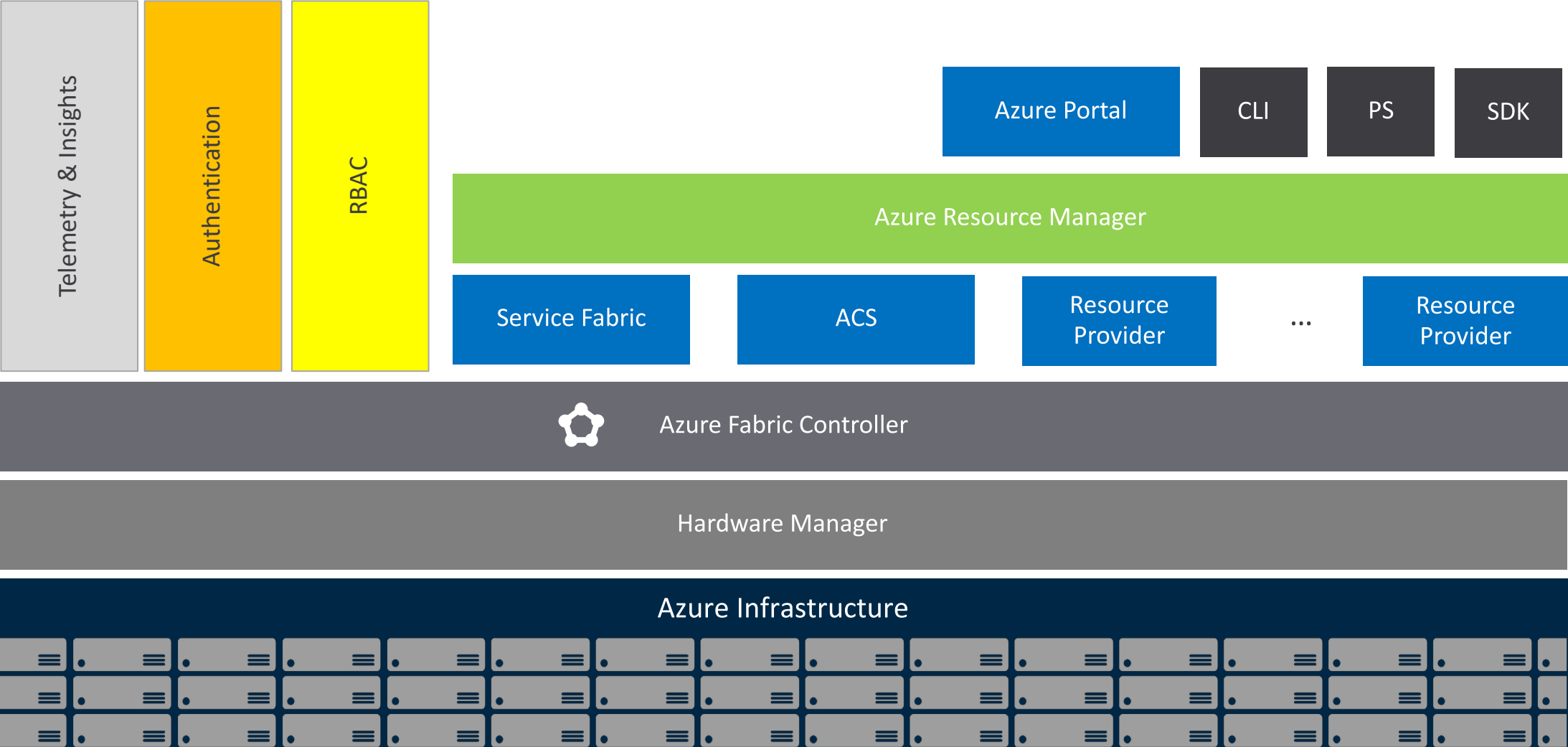
Azure CLI (v2)

PowerShell („RM“)

REST API

Azure SDK

# Architektura Azure





# User Account

## **ARM**

Add user (or group) to role at some scope (RBAC)

RBAC

# RBAC

**Assign a user with a role at some scope**

**Users and groups ( + applications and resources )**

Identities for which an RBAC specification can be assigned

**Role**

Contains AAD users or groups

Specifies a set of Actions and NotActions

**Scope**

Level at which an RBAC assignment is applied

# Role

## **Core system roles**

Owner

Contributor – same as owner but can't modify authorization

Reader

## **Resource-based roles**

Virtual Machine Contributor

Virtual Network Contributor

...

## **Custom roles**

# Scope

## **Scopes**

Subscription

Resource Group

Resource

RBAC assignments are inherited from subscription through resource group to resource

/subscriptions/0fd0f000-0c00-0000-be00-  
b00ac000b00c/resourceGroups/AzureTruck/providers/Microsoft.Compute/virtualMachines/vm1

# Contributor - Actions and NotActions

Actions:

\*

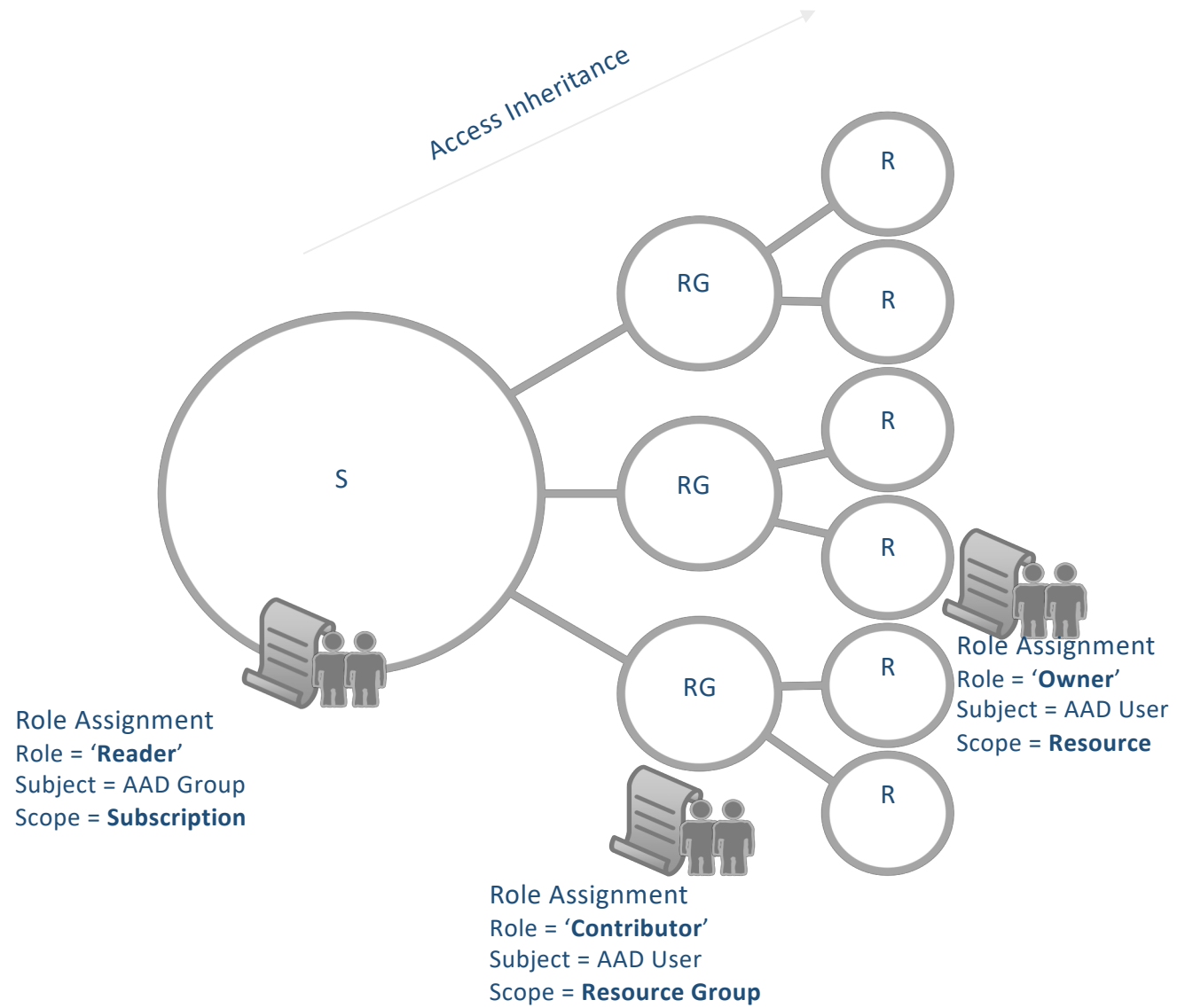
NotActions

Microsoft.Authorization/\*/Write

Microsoft.Authorization/\*/Delete

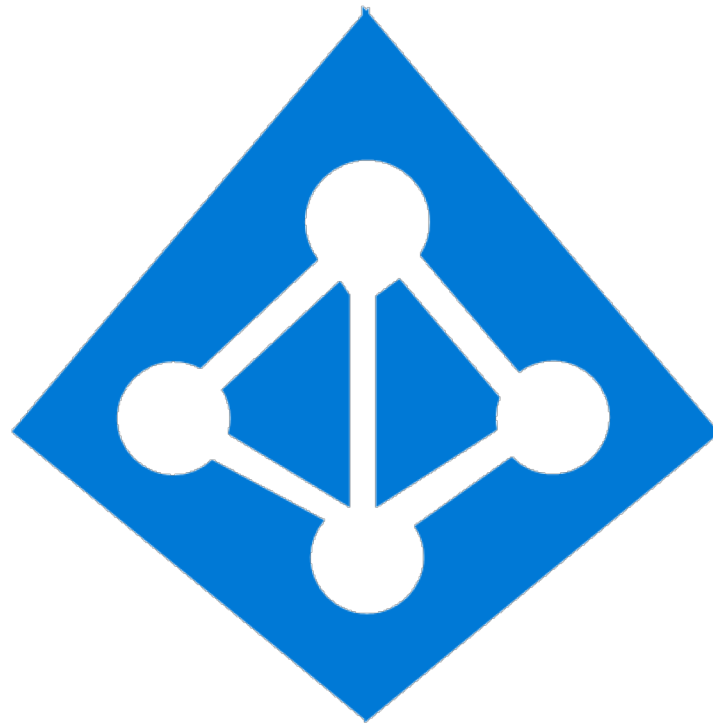
# Virtual Machine Contributor - Actions

Microsoft.ClassicStorage/storageAccounts/read  
Microsoft.ClassicStorage/storageAccounts/listKeys/action  
Microsoft.ClassicStorage/storageAccounts/disks/read  
Microsoft.ClassicStorage/storageAccounts/images/read  
Microsoft.ClassicNetwork/virtualNetworks/read  
Microsoft.ClassicNetwork/reservedIps/read  
Microsoft.ClassicNetwork/virtualNetworks/join/action  
Microsoft.ClassicNetwork/reservedIps/link/action  
Microsoft.ClassicCompute/domainNames/\*  
Microsoft.ClassicCompute/virtualMachines/\*  
Microsoft.Authorization/\*/read  
Microsoft.Resources/subscriptions/resourceGroups/read  
Microsoft.Resources/subscriptions/resourceGroups/resources/read  
Microsoft.Resources/subscriptions/resourceGroups/deployments/\*  
Microsoft.Insights/alertRules/\*  
Microsoft.Support/\*



DEMO

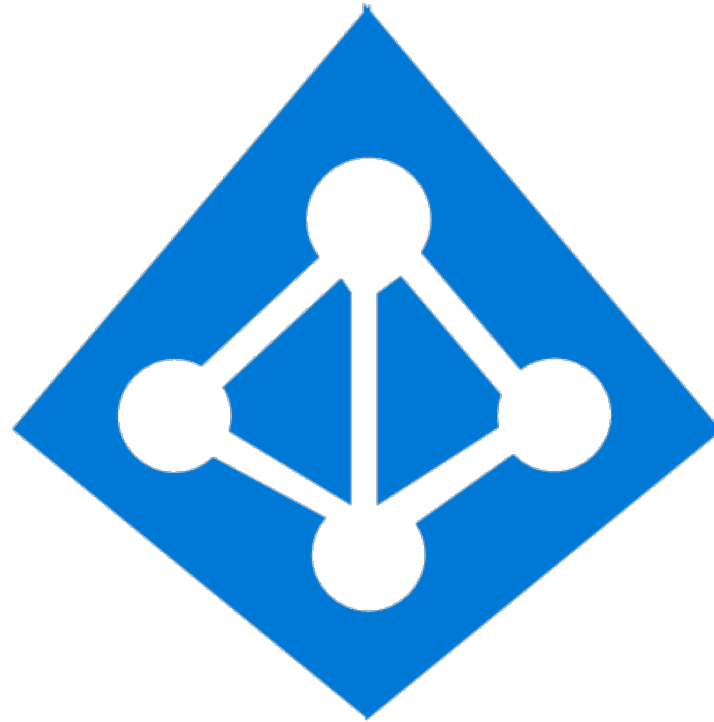




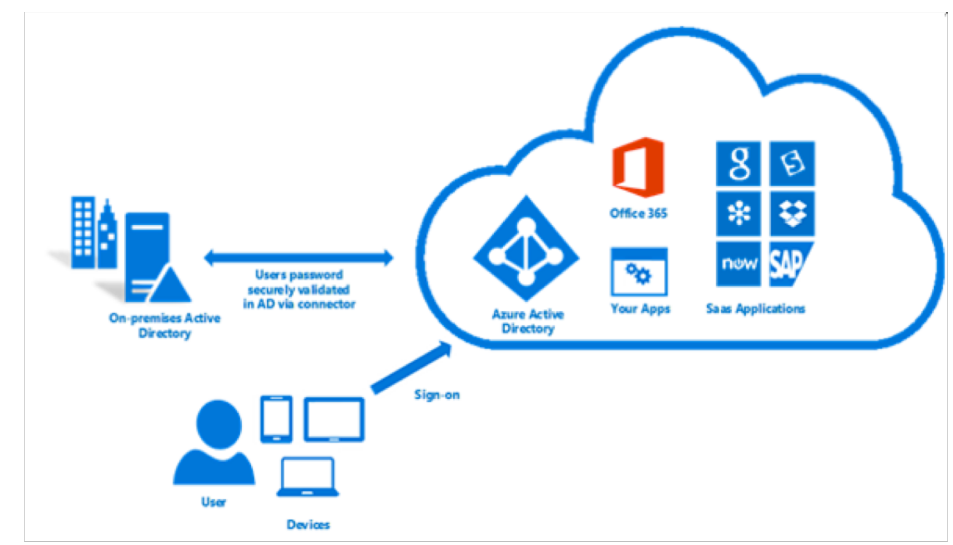
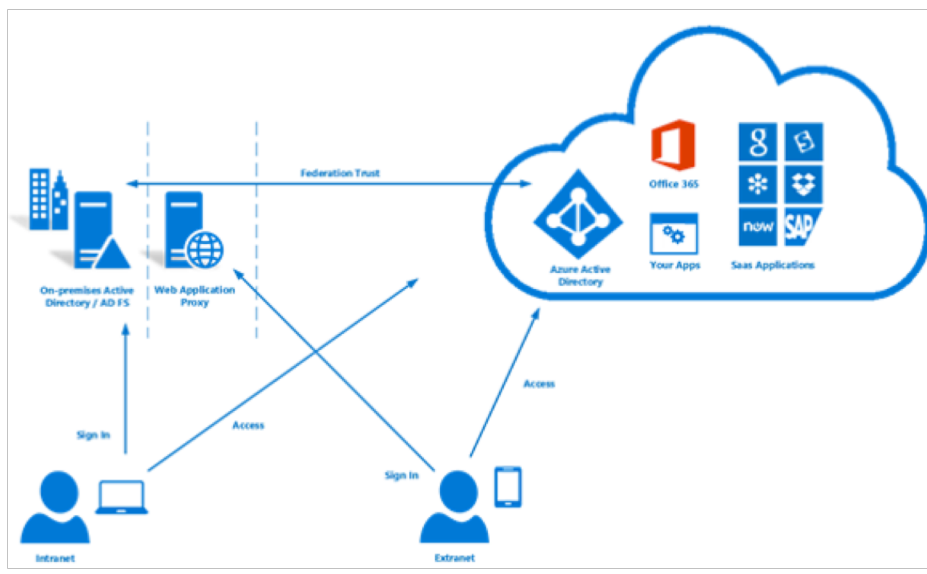
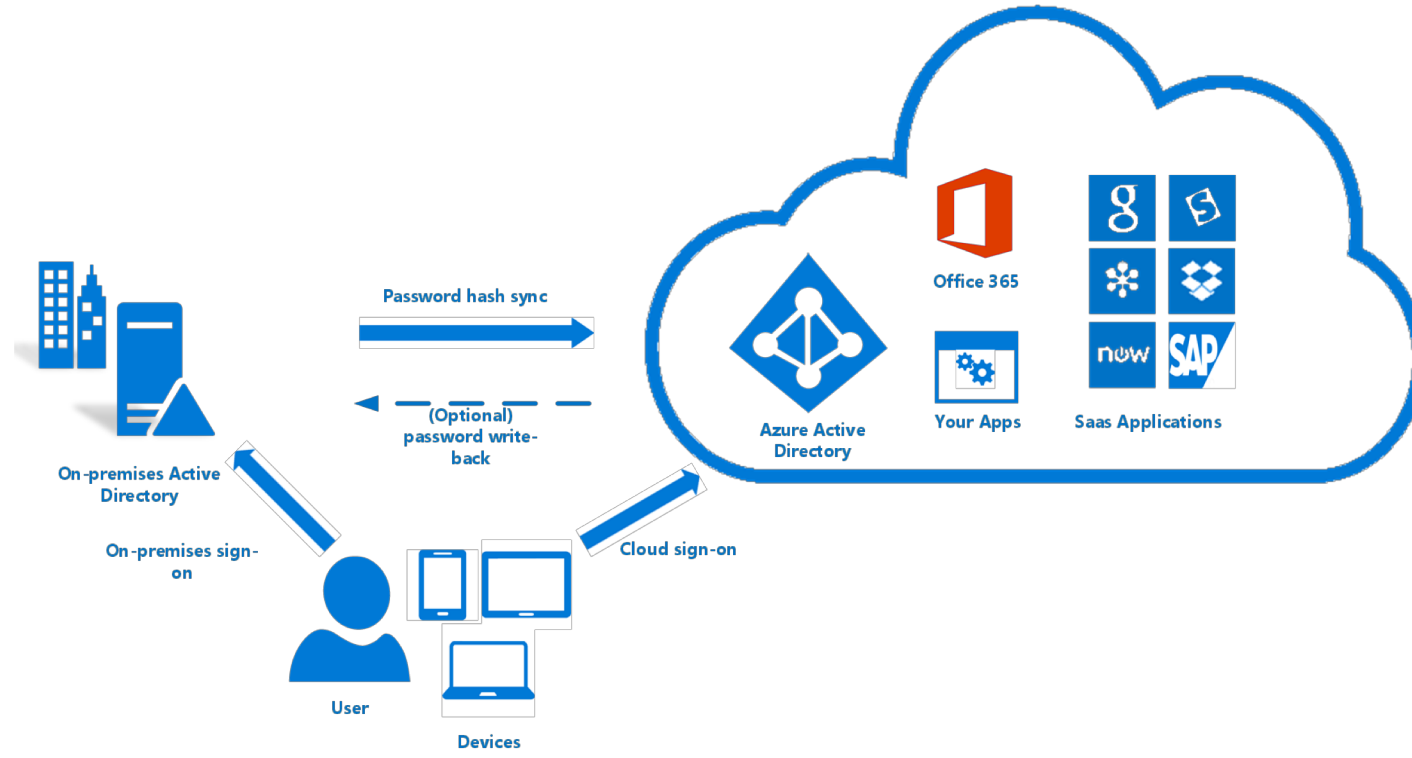
Azure AD PIM

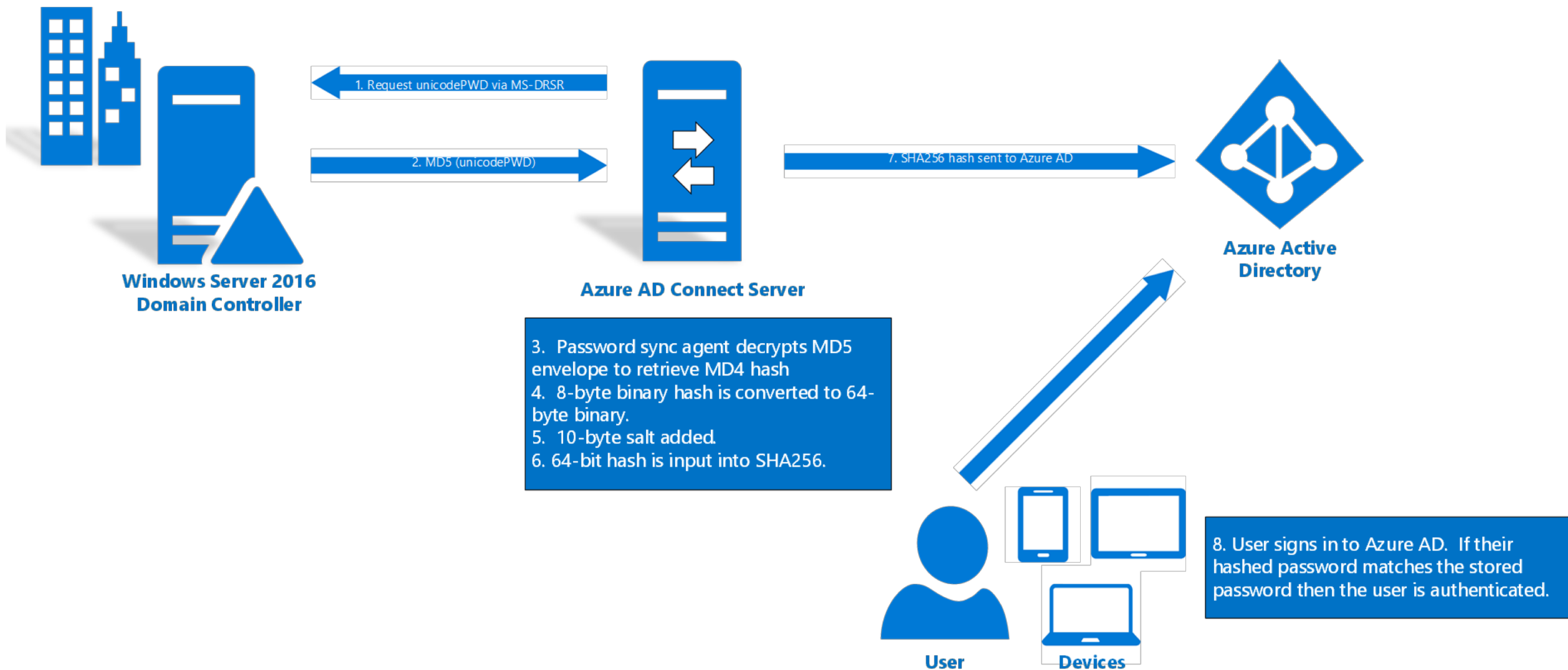
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Be like Bączyk, go hybrid.



Azure AD Connect



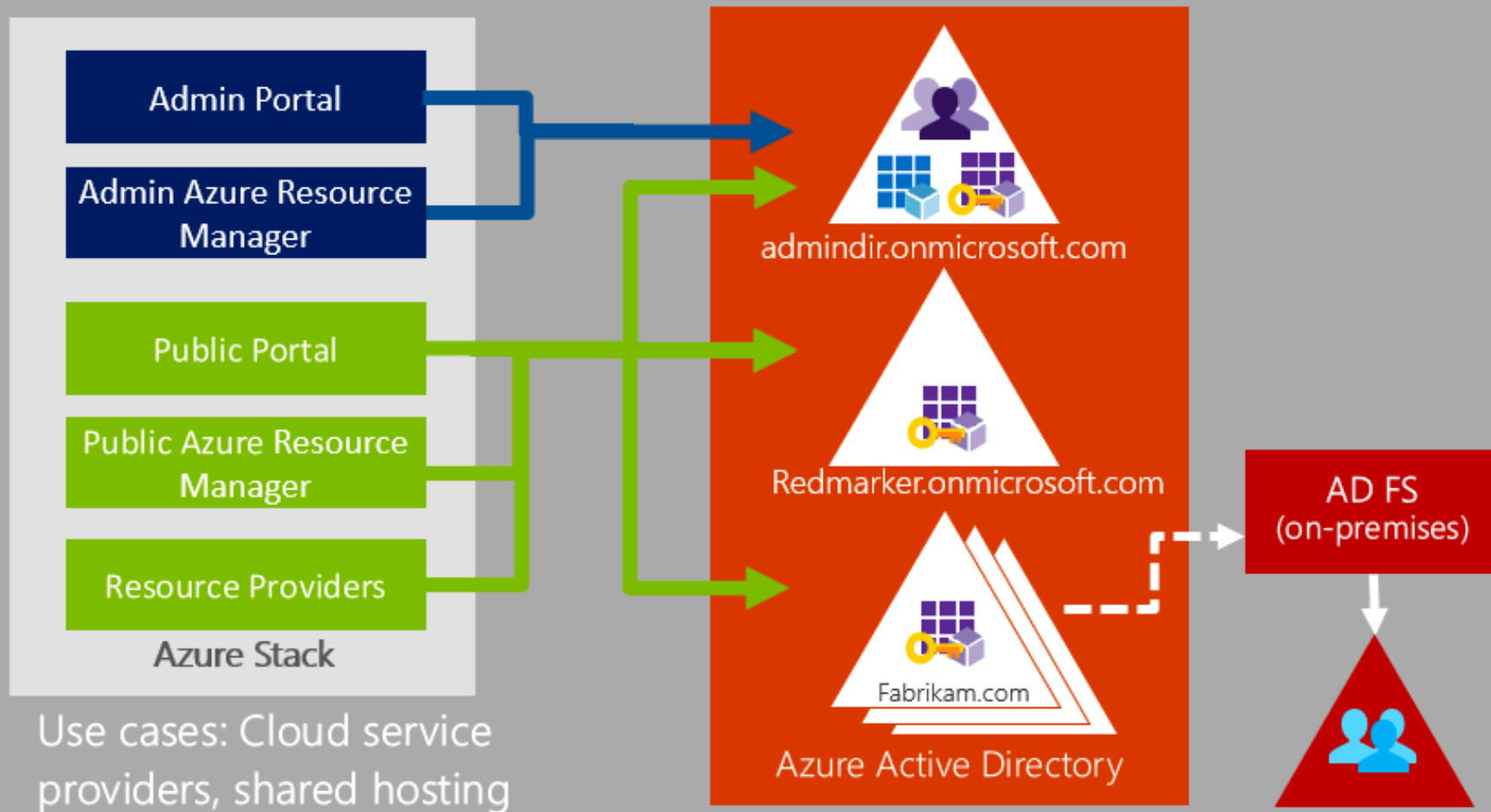


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# Azure Stack



# Azure Stack with Azure AD – Multi Tenant



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