Secure Access with Microsoft Entra: Zero Trust in Action

Perparim Abdullahu | #PerparimLabs
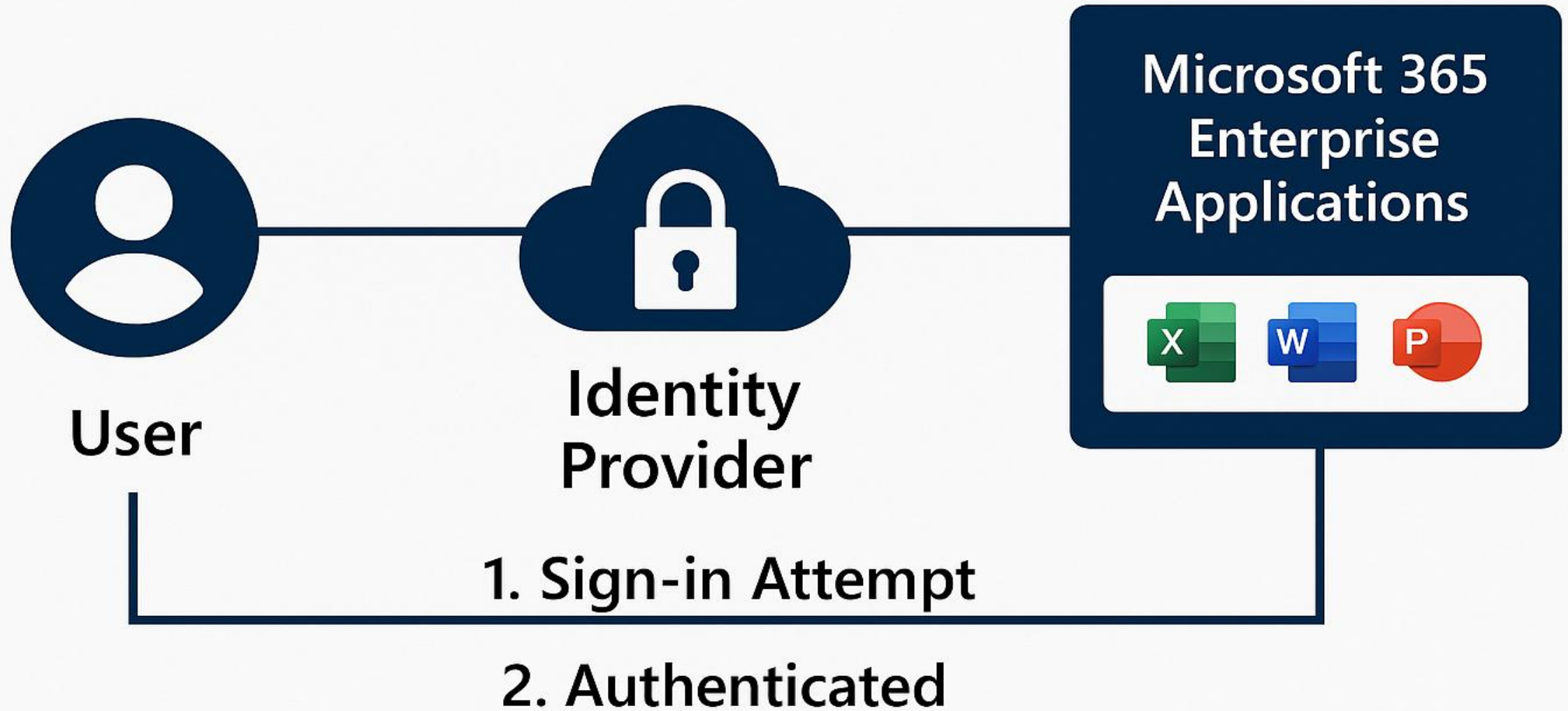
Microsoft
CERTIFIED

EXPERT

Architect a Secure, Scalable Azure Landing Zone for Enterprise Migration

On-Premises

Azure

Landing Zone

Virtual Network

VM VM

Web Application

Virtual Network

Azure Sentinel

Firewall

Azure Security Center

Azure Policy
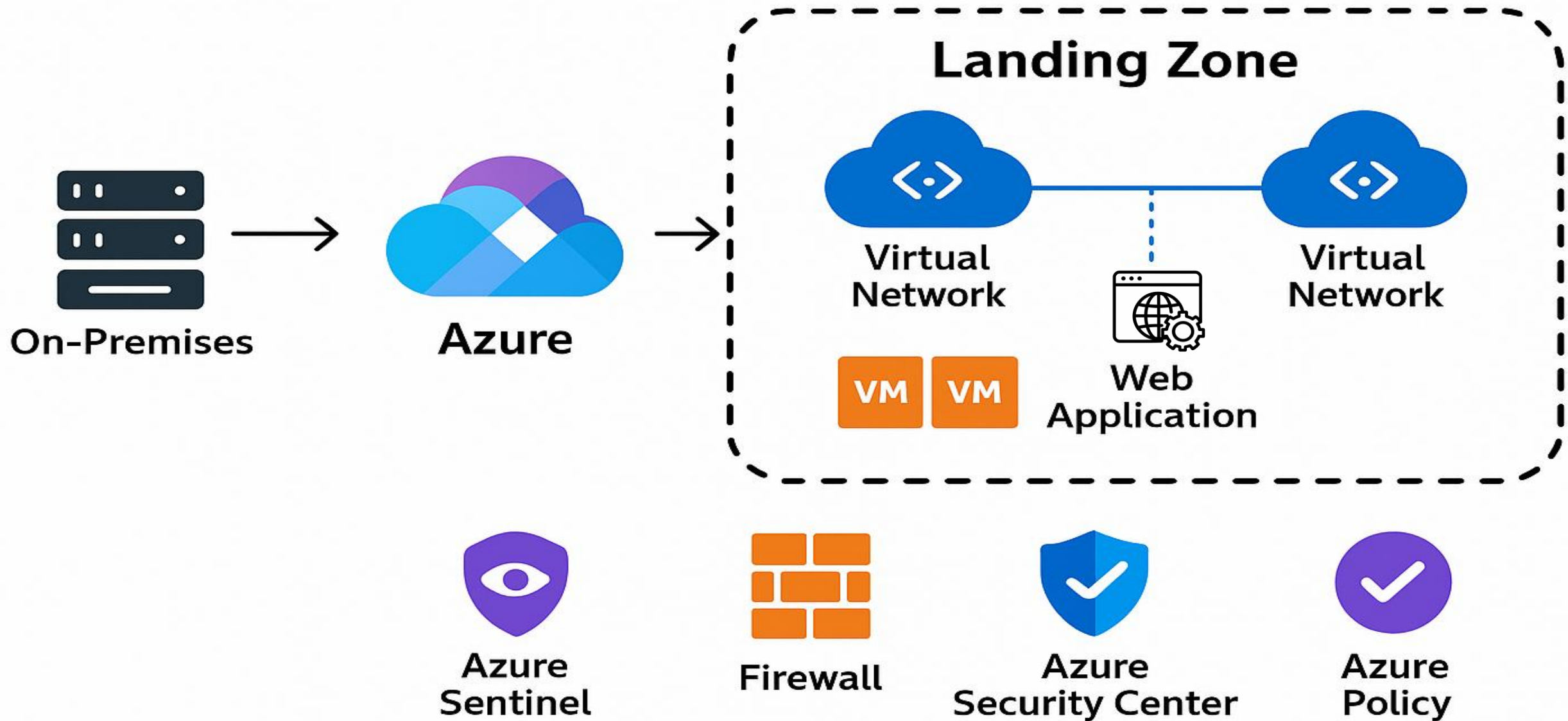
Authentication

- Password hash synchronization

- Pass-through authentication

- Federation

Self-Service Application Access — User-Initiated Access Request

1

User accesses portal

User goes to the enterprise application portal

2

Selects application

User selects an enterprise application
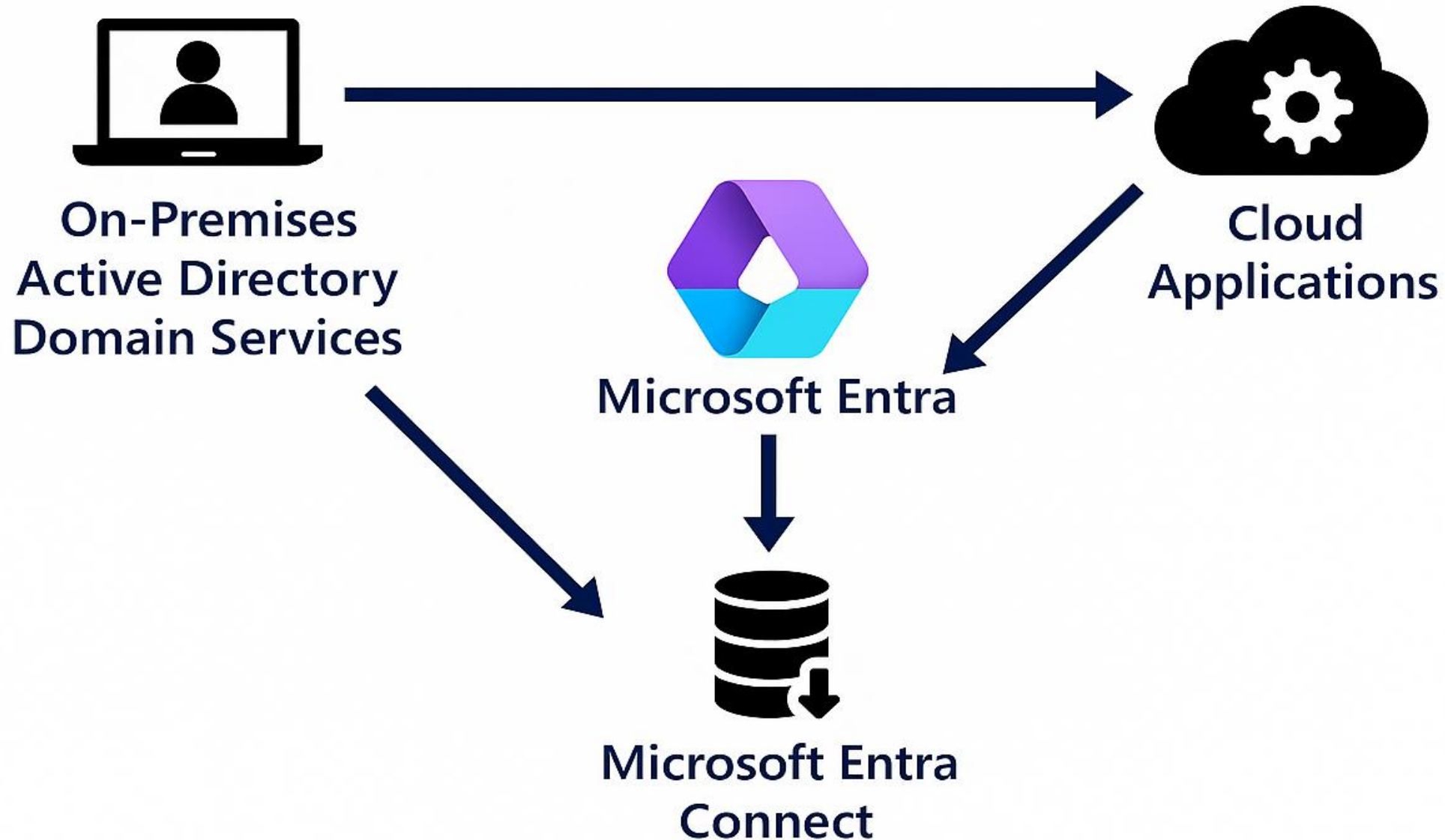
3

Submits request
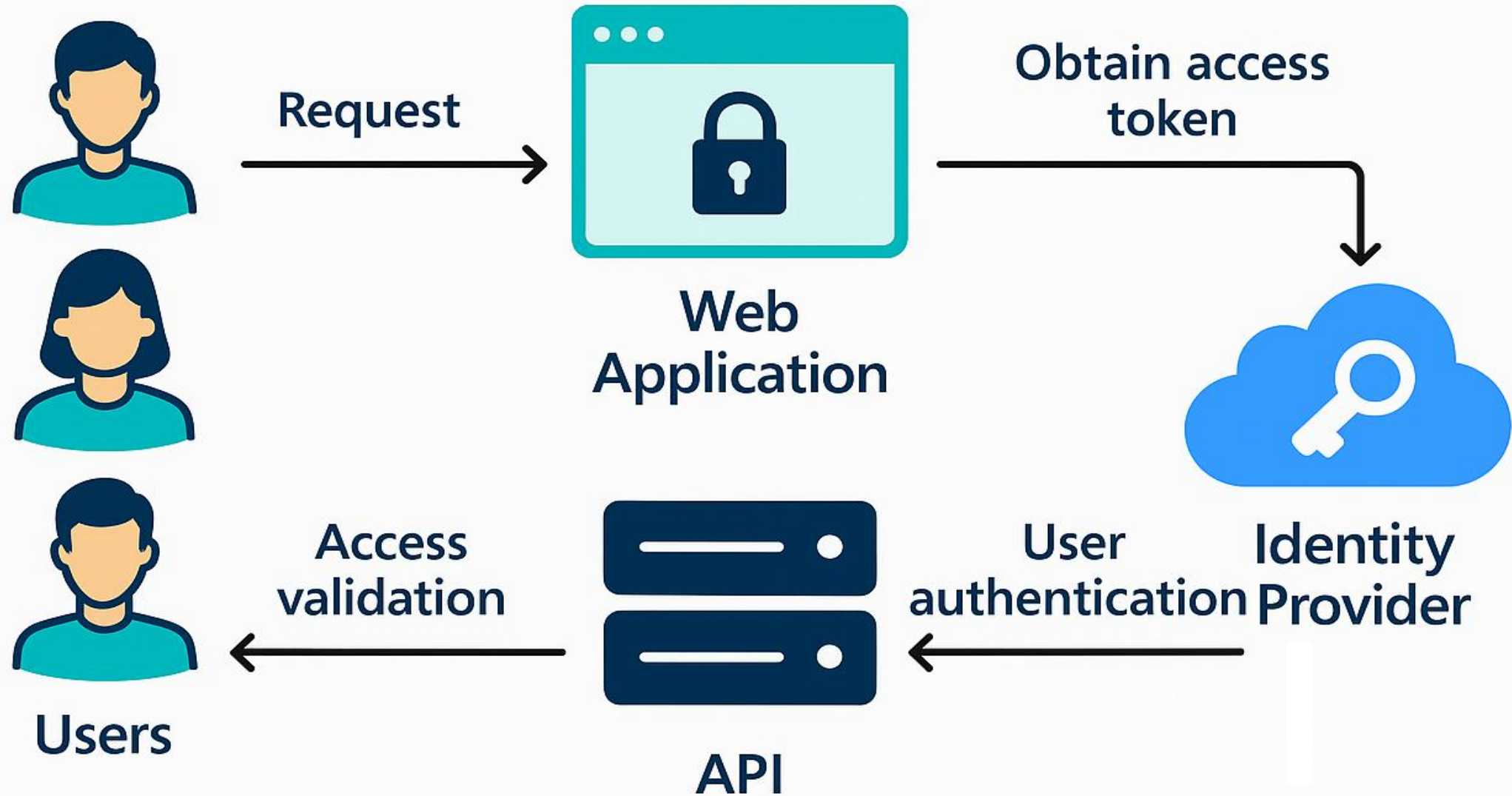
User submits self-service access request

4
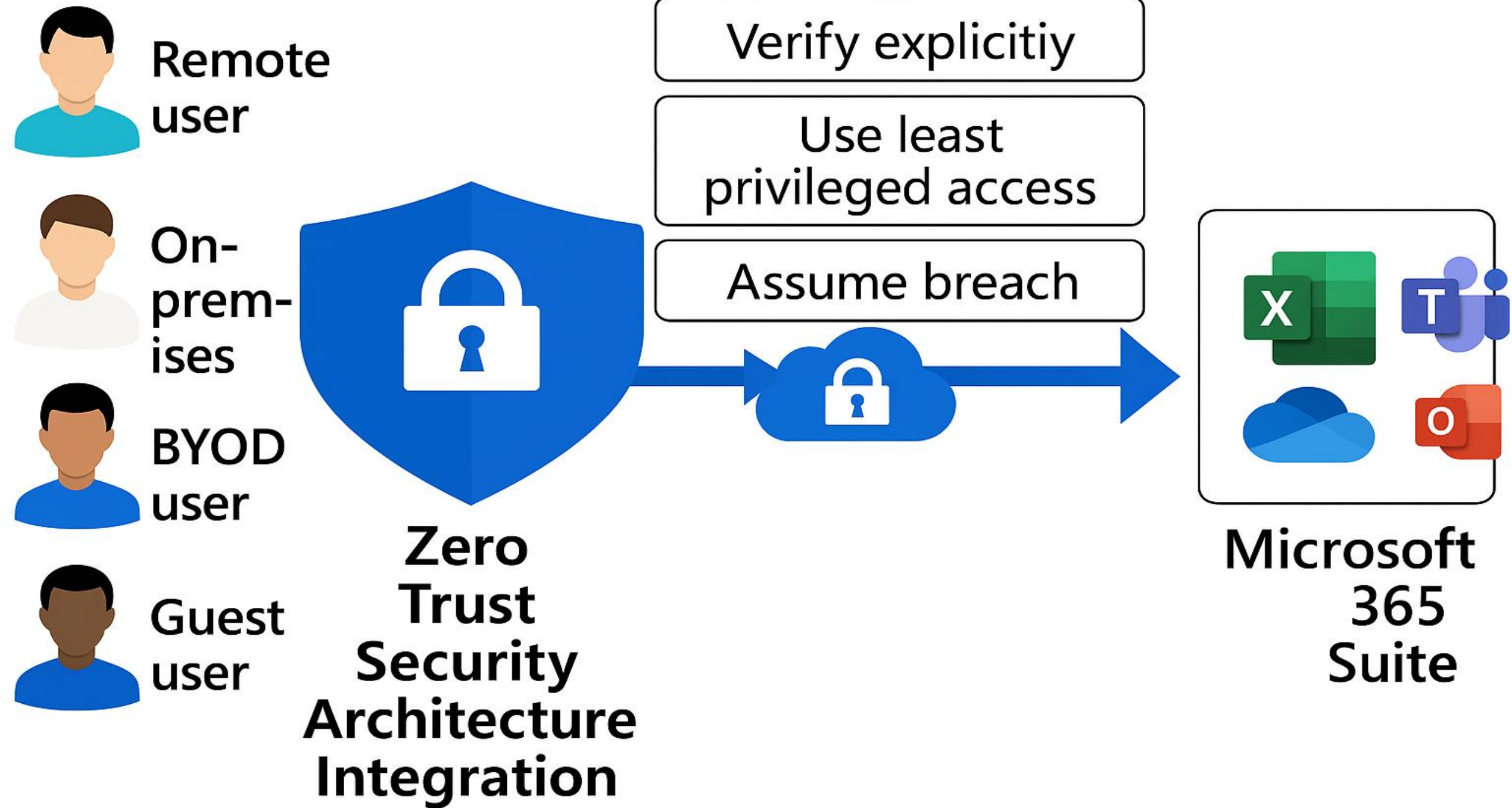
Provides justification

User provides justification for access reques t

Secure Hybrid Identity Architecture

On-Premises
Active Directory
Domain Services

Microsoft Entra

Cloud
Applications

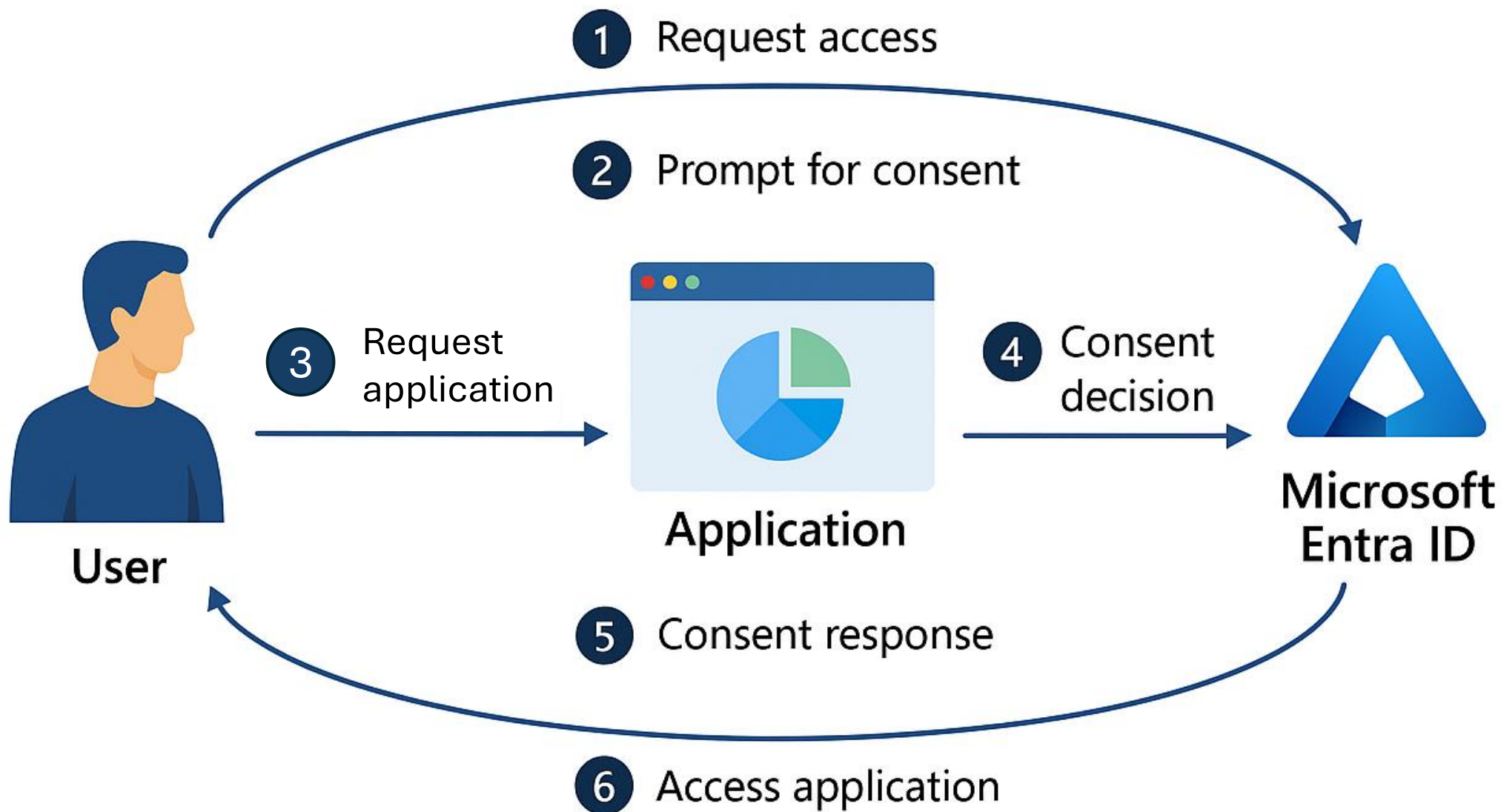Microsoft Entra
Connect

Configure the API

Configure Azure Monitor Alerts and Logic App

- Create an alert rule in Azure Monitor for unauthorized access attempts on Application 2.
- Configure a Logic App to be triggered by the alert, to notify the application owner via email.
- Review and test the configuration for accurate alerting and response
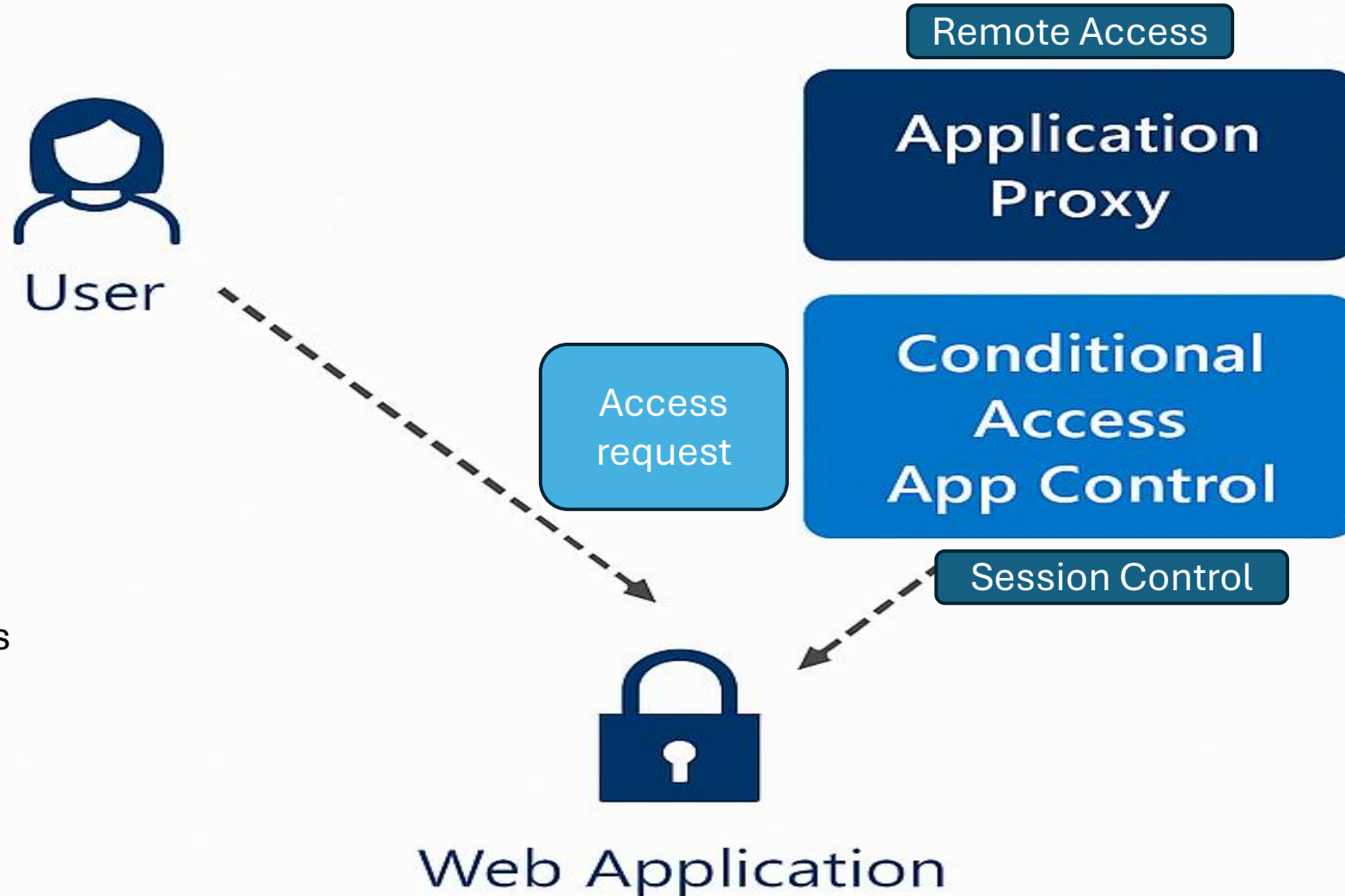
Azure Monitor → **Logic Apps** → **Email Notification**

Consent Workflow

1 Request access

2 Prompt for consent

3 Request application

4 Consent decision

5 Consent response

6 Access application

User

Application

Microsoft Entra ID

Dynamic Application-Level Access

Dynamic policies control user access to a web application by inspecting access requests in real time

Remote Access

Application Proxy

User

Access request

Conditional Access App Control

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Session Control

Web Application

Proxying Authentication Traffic

What is it?

Proxying authentication traffic involves traffic on behalf of the application server, and re-sending it back in the application server's network.

Benefits include:

- Enhanced security
- Improved performance
- Capability to manage application servers behind a firewall

Application Conditional Access Policies

- Conditional Access Policies for Enterprise Applications

- Conditional Access Policy Elements – Users & Groups, Cloud Apps, Conditions, Access Controls

- Enhance Your Application Security with Conditional Access Policies

Perparim Abdullahu
Microsoft Entra ID Professional

Reverse Proxy with NGINX for Backend Routing

NGINX enables secure and scalable routing for enterprise applications to multiple backend services behind the scenes.
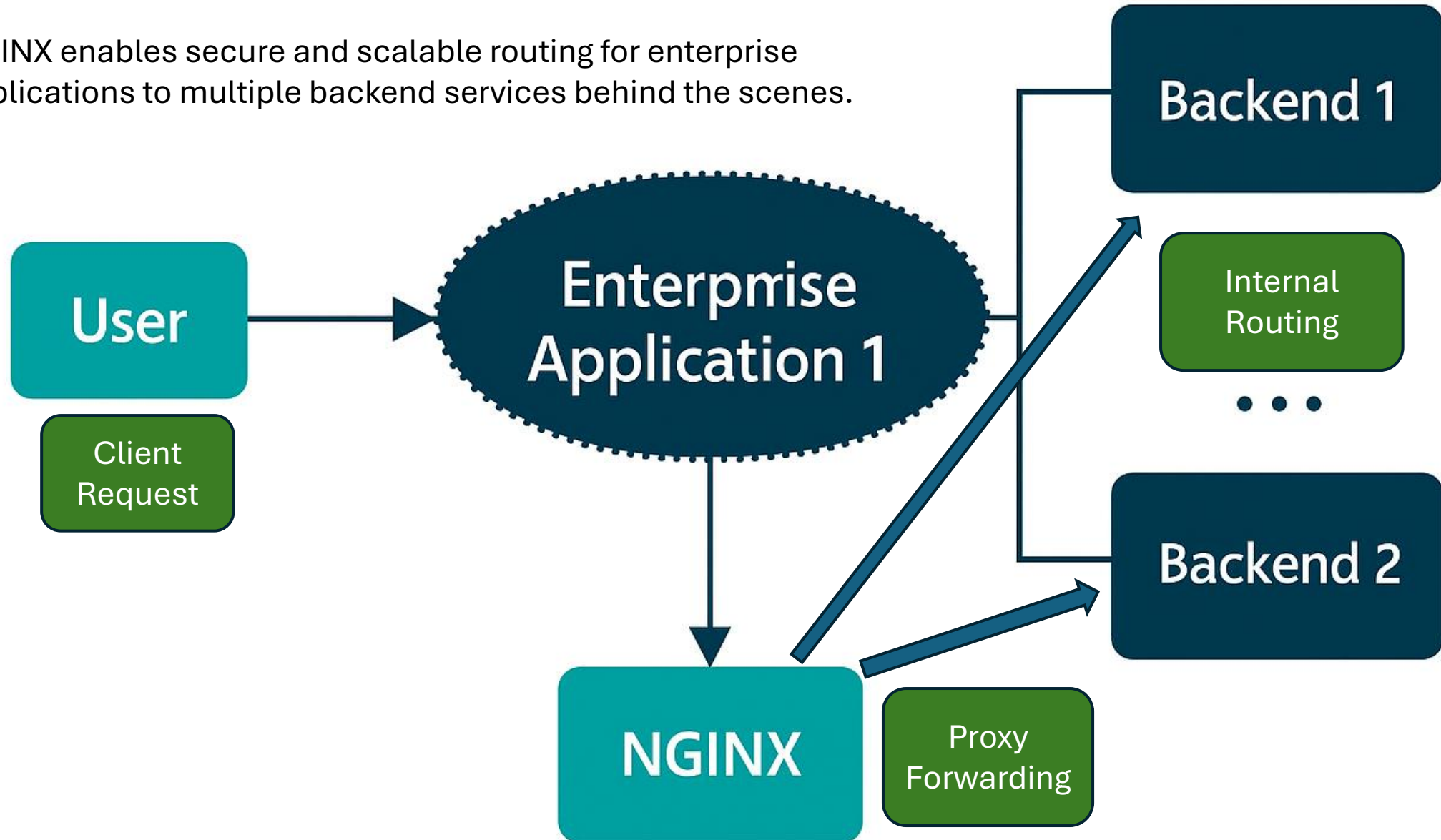
Monitoring Enterprise App Access

Continuous access reviews

Risk-based sign-in alerts

Review and Monitor Enterprise App Access

Microsoft Entra Audit logs

Microsoft Sentinel or Defender integration

Monitor Assignments & User Activity

THANK YOU FOR LISTENING!

Entity Resolution Using Microsoft Entra

Perparim Abdullahu

Azure Solutions Architect | Microsoft Entra

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