



## PingAccess Bootcamp 2024 – Day3

April 18, 2024

## What's in it for You?

This training is designed to introduce PingAccess and its supported feature with implementation

### Upon completion, you will:

- Become familiar with basics of PingAccess and purpose of using it.
- Understand and learn how to get started with PingAccess.
- PingAccess Administration and Deployment

# Introduction to PingAccess

Centralized Access Management

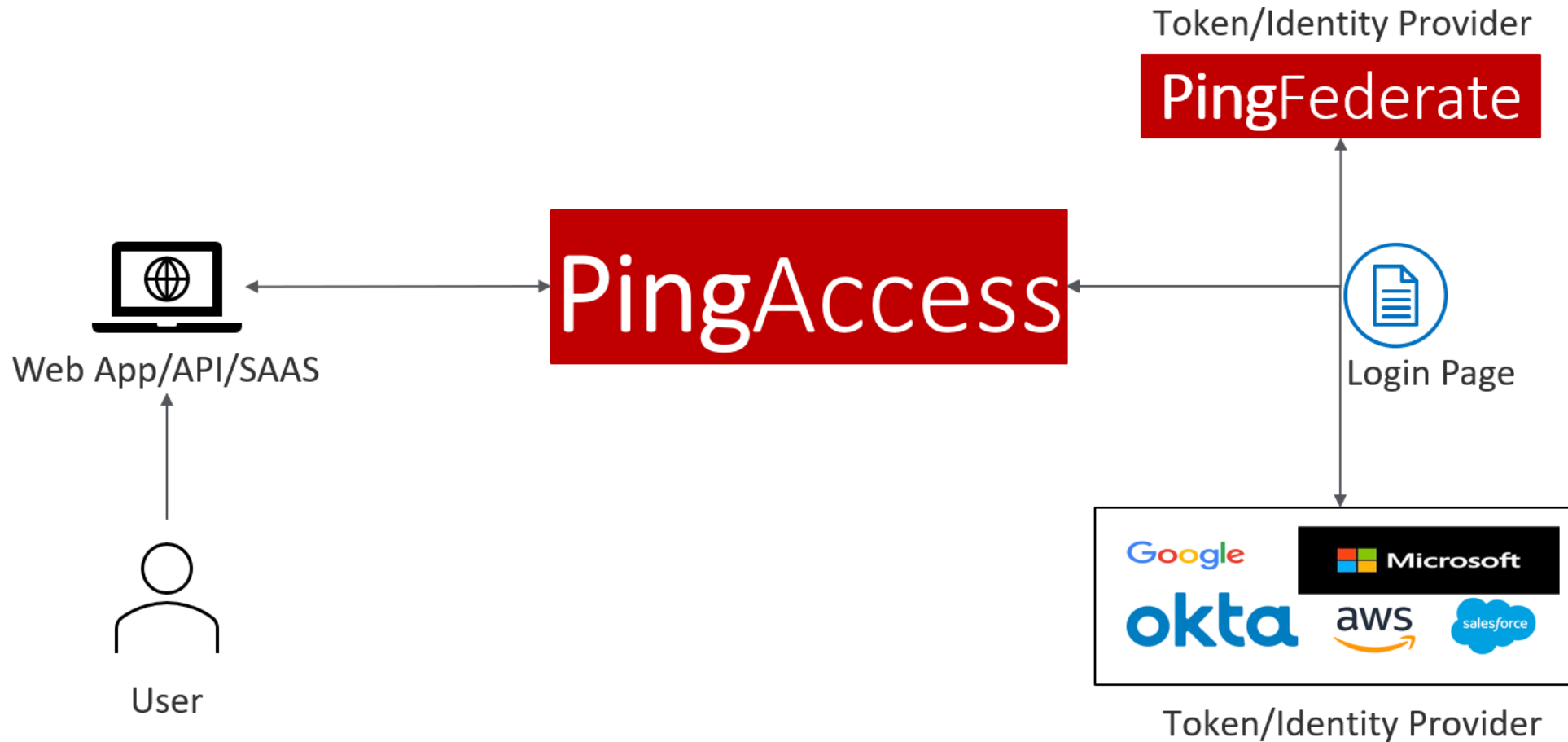
## What is PingAccess?

- A centralized access security solution with a comprehensive policy engine.
- PingAccess can act as Reverse Proxy for Web applications.
- It allows organizations to protect web apps, APIs, and other resources using rules and other access criteria.
- It provides secure access to applications and APIs down to the URL level and ensures that only authorized users can access the resources they need.

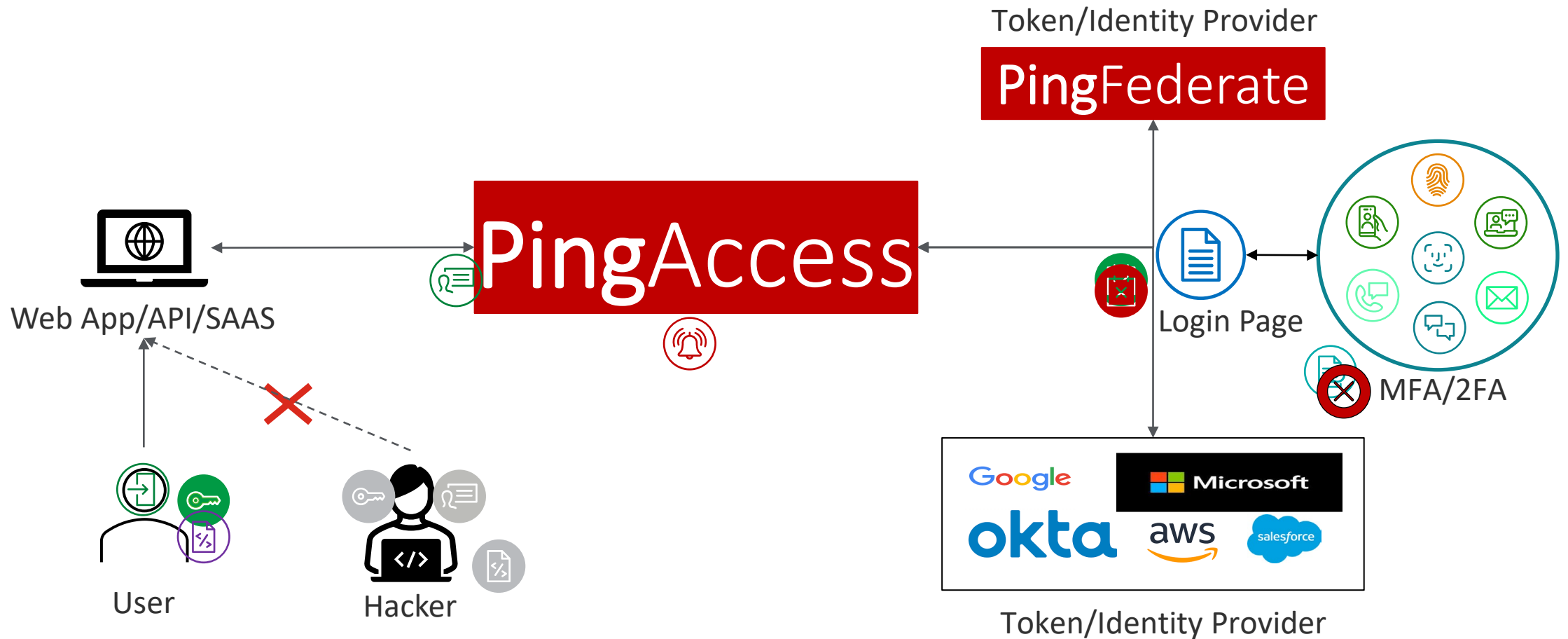
## When & Where PingAccess can be used?

- Gateway/Reverse proxy
- Agent based SSO
- Basic or Fine granular Authorization
- SSO/Federation Hub
- HTTP Header based response (For Legacy Applications)
- To Secure APIs access
- Centralized Session Management
- Customization of Attributes
- To Securely sharing the response in the JWT tokens

## Example – How PingAccess works



## Example (Demo) – How PingAccess works



## How PingAccess can be deployed?

### **PingOne Advanced Services** - Dedicated

tenant cloud services

- PingFederate
- PingDirectory
- PingDirectory Delegated Admin
- **PingAccess**
- PingCentral
- PingDataSync

### **PingOne Cloud Software** - Deploy anywhere cloud containers

- PingOne SSO
- PingDirectory
- PingOne MFA/ PingID
- PingOne DaVinci
- **PingOne Authorize (includes PingAccess capabilities)**
- PingOne Protect
- PingIntelligence for APIs

### **PingAccess in On-premise**



# Installation

## Installing your PingAccess Instance

## Installation instructions

Follow the Lab Guide

## Getting started with PingAccess - Initial Setup

- Start a web browser.
- Go to <https://localhost:9000/>
- Import your License when you first open your PA admin instance in browser.
- Once License Imported, you will be redirected to PA Admin Console and please enter the following credentials for the first time,

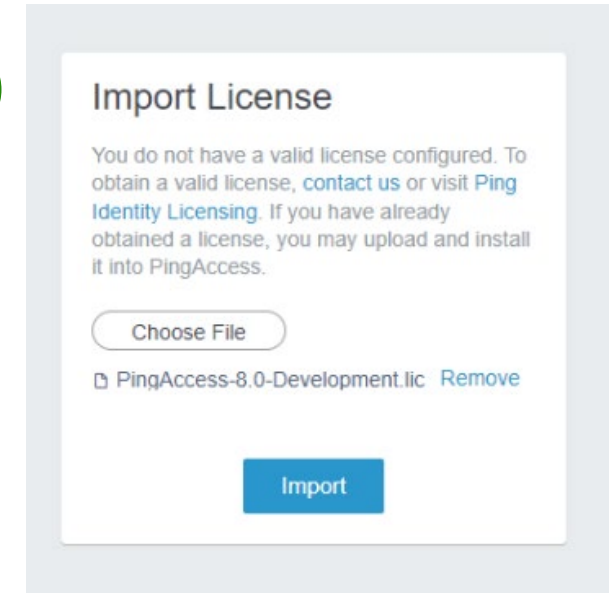
*[Sign on with the default username and password:]*

**Username: Administrator**

**Password: 2Access**

- Then review and accept the Agreement

1



**Import License**

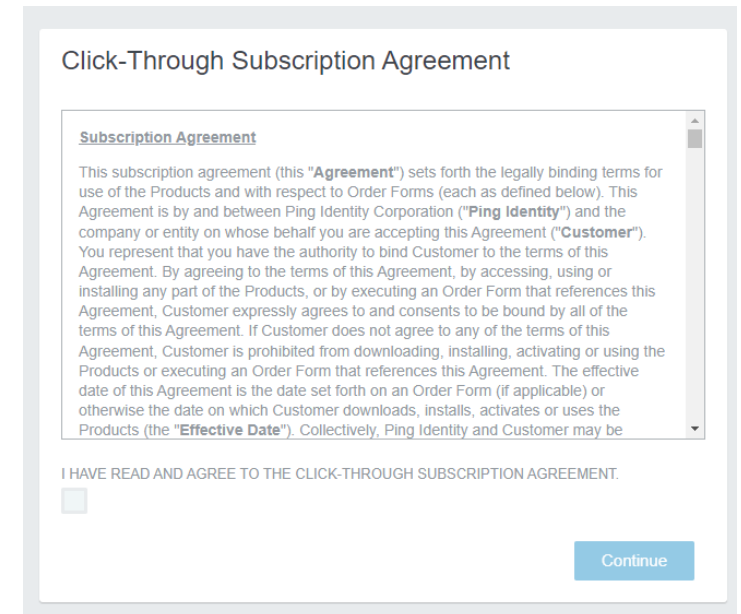
You do not have a valid license configured. To obtain a valid license, [contact us](#) or visit [Ping Identity Licensing](#). If you have already obtained a license, you may upload and install it into PingAccess.

[Choose File](#)

[PingAccess-8.0-Development.lic](#) [Remove](#)

[Import](#)

2



**Click-Through Subscription Agreement**

Subscription Agreement

This subscription agreement (this "Agreement") sets forth the legally binding terms for use of the Products and with respect to Order Forms (each as defined below). This Agreement is by and between Ping Identity Corporation ("Ping Identity") and the company or entity on whose behalf you are accepting this Agreement ("Customer"). You represent that you have the authority to bind Customer to the terms of this Agreement. By agreeing to the terms of this Agreement, by accessing, using or installing any part of the Products, or by executing an Order Form that references this Agreement, Customer expressly agrees to and consents to be bound by all of the terms of this Agreement. If Customer does not agree to any of the terms of this Agreement, Customer is prohibited from downloading, installing, activating or using the Products or executing an Order Form that references this Agreement. The effective date of this Agreement is the date set forth on an Order Form (if applicable) or otherwise the date on which Customer downloads, installs, activates or uses the Products (the "Effective Date"). Collectively, Ping Identity and Customer may be

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## File System

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bin	Commands for running the server from command line instead of service
conf	Run.properties,log4j2.xml, template
Data	PingAccess database configuration is stored
Legal	PingAccess License Agreement
Lib	Core modules of PingAccess
sbin	Tools for enabling PingAccess as a Linux Demon or windows service
sdk	API documentation and sample applications
tools	Helper tools that are not directly accessed by administrator

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## Run.properties

- It is used to configure run time settings for the Ping Access Server

- Cipher suites
- Clustering
- Configuration database security
- Runtime performance Tuning

## Ports

9000 TCP - Administrative console

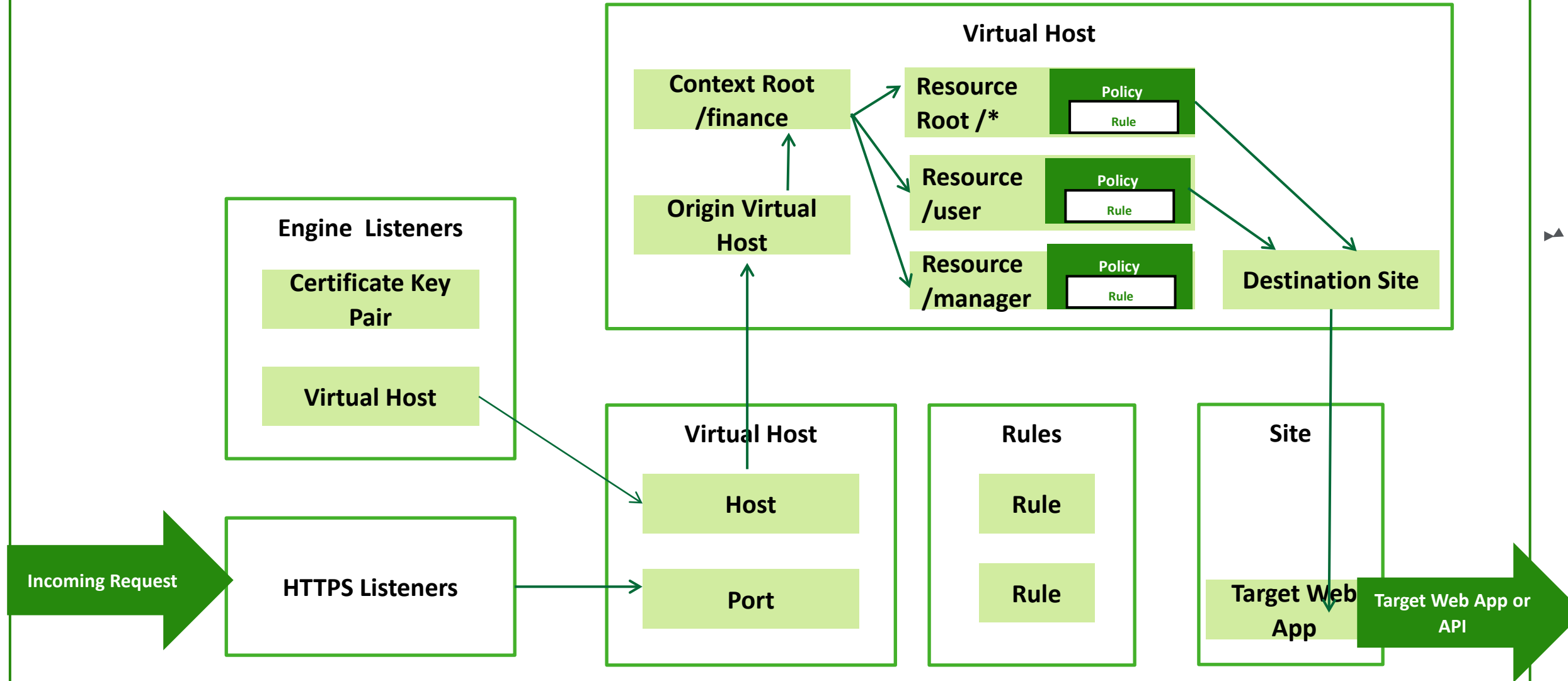
3000 TCP – Runtime Engine

3030 TCP – Agent Protocol

## PingAccess Listeners

- Listeners – Define the ports on which PingAccess listens for incoming requests
  - Admin Port - Administrative user requests
  - Engine Port – requests proxied to target servers
  - Agent Port – Requests from PA agents
  - Config Query Port – Used in clustered deployments
  - Sideband port – Sideband clients requests
- Virtual hosts – Name of the site
- Sites – This is what PingAccess is protecting
- Applications - Represent protected applications or APIs
- Rules – Used for Access control
- Policies – Rules applied to resources and applications

# Gateway Model



## Virtual Hosts, Application Contexts, and Resources

### Virtual Hosts

<https://www.authn-solutions.online/finance>

**Context**

**/finance**

**Resource**

**/\***

<https://www.authn-solutions.online/finance/user>

**/finance**

**/user**

<https://www.authn-solutions.online/finance/manager>

**/finance**

**/manager**

<https://www.authn-solutions.online/hrApp/manager>

**/hrApp**

**/manager**

<https://www.authn-solutions.online/user>

**/**

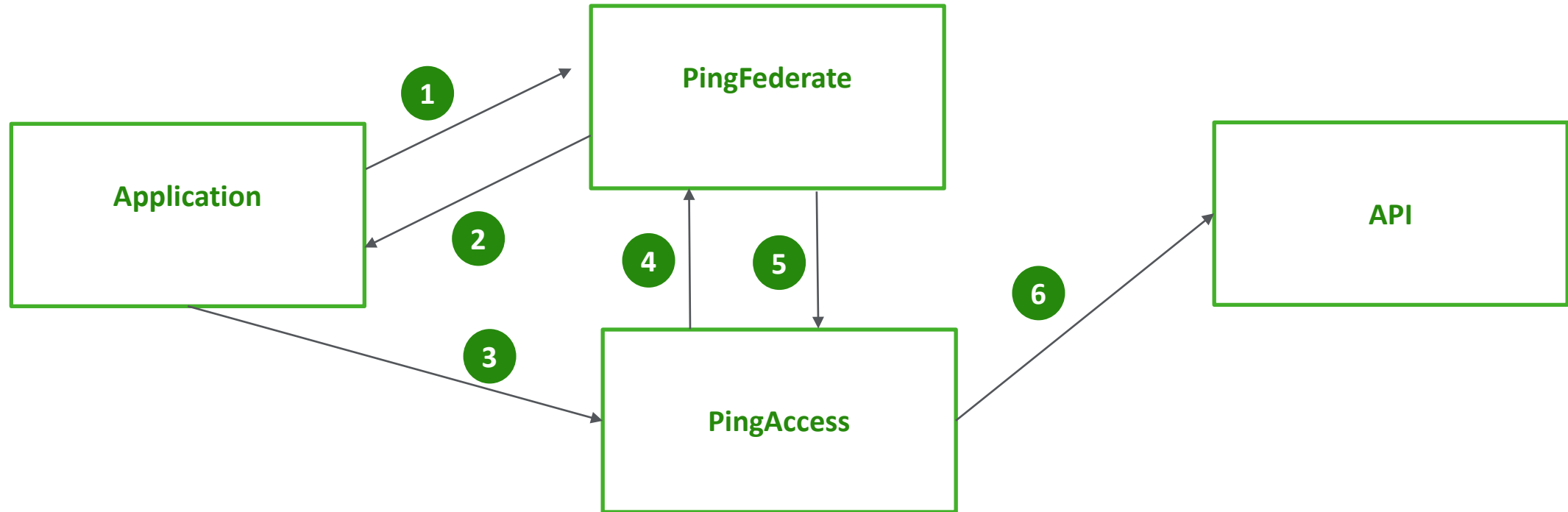
**/user**

## Gateway Model Pros and Cons

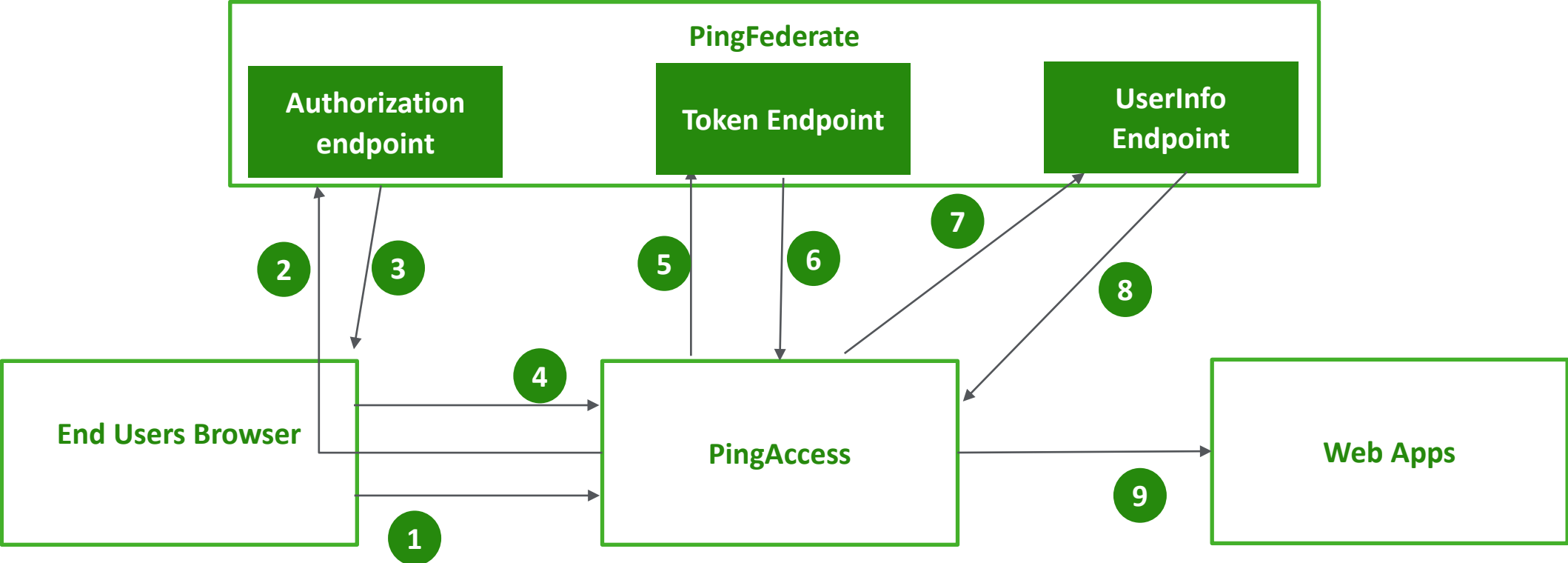
Pros	Cons
Fewer number of deployed components that require maintenance	Requires network changes
Keeps PingAccess independent of the target application	Secure backend servers
No impact on Web server/app server performance	Request/Response rewriting
Works with existing token providers	PingAccess requires HA and failover



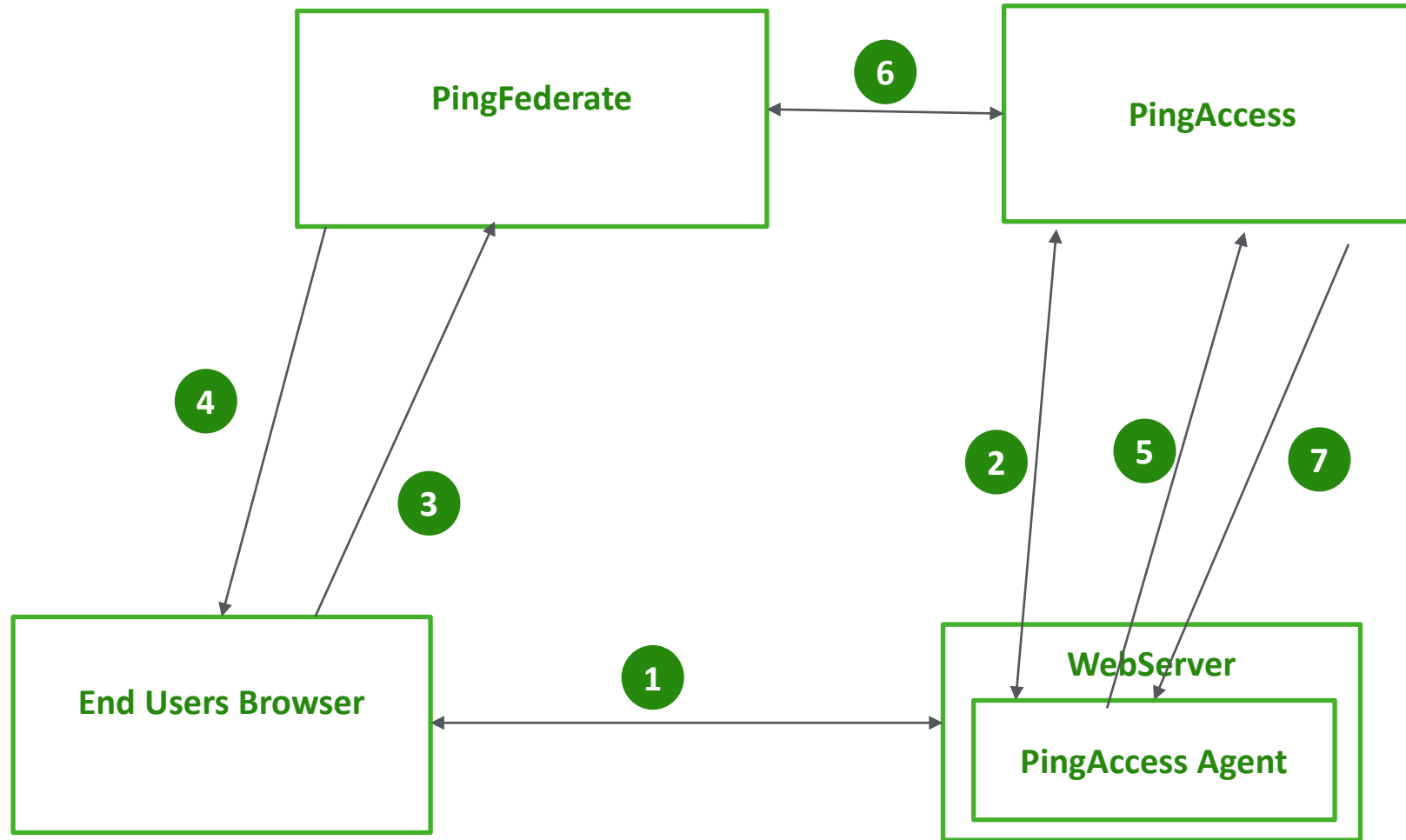
## PingAccess as a Delegated Resource Server



# Web Access Control



## Agent Model





# Thank you.

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