



**Infisign Network Access Gateway (NAG):
Enabling Unified Federation and SSO for Hybrid
Environments**

TABLE OF CONTENTS

A. Introduction	3
Introducing Infisign Network Access Gateway (NAG).....	4
B. Key Features of Infisign NAG	4
• Unified Federation:.....	4
• Single Sign-On (SSO):.....	4
• Zero Trust Architecture:.....	4
• SAML and OpenID SSO Protocols:.....	4
Zero Trust with SAML and OpenID SSO Protocols	5
Deployment and Architecture	5
VPC Deployment.....	6
On-Premises Deployment.....	6
Whitelisted Connection with Infisign Cloud Ecosystem.....	6
NAG as a Gateway for OpenID/SAML Connections	6
Benefits of Infisign NAG	6
Enhanced Security.....	6
Unified Federation.....	7
Single Sign-On (SSO) Experience.....	7
Flexibility in Deployment.....	7
Scalability.....	7
Conclusion	7

A. Introduction

In today's rapidly evolving digital landscape, traditional security measures are no longer enough to safeguard sensitive data and protect against unauthorized access. That's where Infisign comes in. We bring a comprehensive approach to enterprise security that ensures your organization stays ahead of emerging threats while providing seamless and efficient user experiences.

Our foundation is built upon the principles of Zero Trust, which means we assume no trust by default and verify every user and device attempting to access your systems or applications. By implementing Zero Trust architecture, we eliminate the traditional perimeter-based security model and embrace a dynamic, risk-based approach that adapts to the ever-changing threat landscape.

Central to our solutions is decentralized identity, a groundbreaking concept that grants individuals control over their own digital identities. Through decentralized identity frameworks, we enable users to securely manage and share their identity attributes across different systems, removing the need for centralized identity providers and reducing the risk of data breaches.

Leveraging federation protocols like SAML (Security Assertion Markup Language) and OpenID, we facilitate seamless and secure Single Sign-on (SSO) capabilities across various applications and services. Say goodbye to password fatigue and hello to enhanced user productivity and convenience. Our SSO solutions streamline the authentication process while maintaining the highest standards of security. Additionally, we understand the limitations and vulnerabilities associated with traditional password-based logins. That's why we offer state-of-the-art Passwordless logins, allowing users to authenticate without relying on passwords. By leveraging advanced authentication methods such as biometrics, smart cards, and token-based authentication, we enhance security while reducing the risk of password-related attacks.

At Infisign, we are committed to providing enterprise-grade security solutions that empower your organization to thrive in the digital era. Our team of experts will work



closely with you to assess your unique security requirements and design a tailored solution that fits your business needs seamlessly.

Introducing Infisign Network Access Gateway (NAG)

Infisign Network Access Gateway (NAG) is a powerful solution designed to provide a unified federation and Single Sign-On (SSO) interface for hybrid environments encompassing both on-premise and cloud ecosystems. By leveraging the capabilities of Zero Trust architecture along with the SAML and OpenID SSO protocols, Infisign NAG seamlessly integrates various environments, ensuring secure and efficient access management.

B. Key Features of Infisign NAG

Infisign NAG boasts a range of features that make it an ideal choice for organizations seeking unified federation and SSO capabilities:

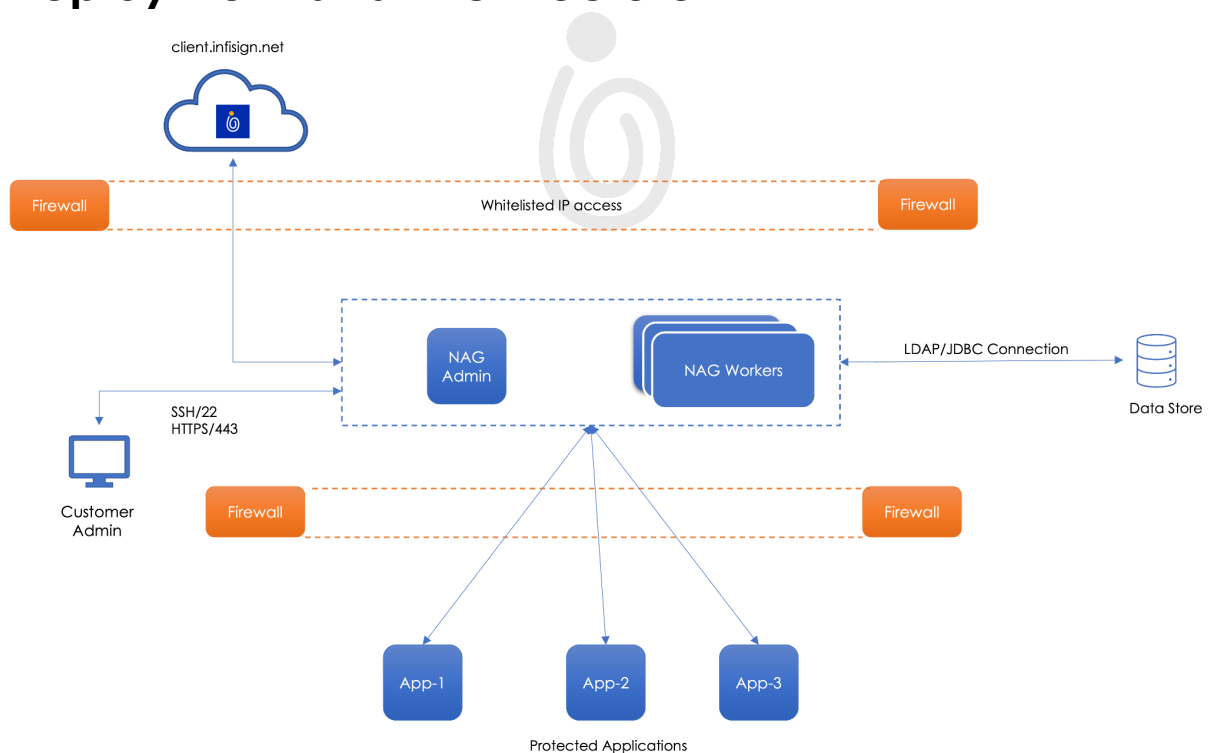
- **Unified Federation:**
Infisign NAG facilitates seamless federation across hybrid environments, enabling secure communication and access management between on-premise systems and cloud-based resources.
- **Single Sign-On (SSO):**
The gateway offers a Single Sign-On (SSO) interface, streamlining the authentication process for users. This ensures that once users are authenticated, they can access multiple resources without the need to enter their credentials repeatedly.
- **Zero Trust Architecture:**
Infisign NAG follows the Zero Trust security model, which means it treats every access request with skepticism and verifies each user's identity before granting access to resources, regardless of their location or network.
- **SAML and OpenID SSO Protocols:**
The NAG supports both the Security Assertion Markup Language (SAML) and the OpenID Connect (OIDC) protocols. These industry-standard protocols enable secure and standardized authentication and authorization for users across different environments.

Zero Trust with SAML and OpenID SSO Protocols

Insign NAG's implementation of Zero Trust, in combination with the SAML and OpenID SSO protocols, ensures enhanced security for all access attempts. With Zero Trust, the gateway continuously verifies user identity, device health, and other contextual factors before granting access to resources.

The use of SAML and OpenID SSO protocols further enhances security by eliminating the need for passwords and reducing the attack surface. These protocols use secure tokens and assertions for authentication and authorization, making it difficult for malicious actors to compromise user credentials.

Deployment and Architecture



Insign NAG offers flexible deployment options to accommodate various organizational needs.

VPC Deployment

For cloud-centric environments, the NAG can be deployed within a Virtual Private Cloud (VPC) to facilitate secure access management for cloud-based resources. This deployment model is suitable for organizations heavily invested in cloud infrastructure and services.

On-Premises Deployment

Alternatively, organizations preferring to keep critical resources within their on-premise network can deploy Infisign NAG internally. This ensures that on-premise applications and services can also benefit from unified federation and SSO capabilities.

Whitelisted Connection with Infisign Cloud Ecosystem

To establish a secure communication channel between the on-premise NAG instance and the Infisign cloud ecosystem, a whitelisted connection is established. This connection ensures that only authorized traffic can flow between the on-premise and cloud environments, adding an extra layer of security to the overall system.

NAG as a Gateway for OpenID/SAML Connections

Infisign NAG acts as a gateway for OpenID and SAML connections from on-premise systems to the cloud. When users attempt to access cloud-based resources, the NAG intercepts the authentication request, verifies the user's identity and other contextual factors, and then forwards the request to the appropriate cloud service provider using the selected SSO protocol (SAML or OpenID).

This intermediary role of NAG ensures that the cloud resources remain protected from direct access by on-premise systems while enabling seamless and secure access for authenticated users.

Benefits of Infisign NAG

Enhanced Security

Infisign NAG leverages the Zero Trust model and industry-standard SSO protocols (SAML and OpenID) to provide robust security against potential threats and unauthorized access.

Unified Federation

The NAG enables smooth communication and access management between on-premise and cloud environments, fostering a cohesive and productive ecosystem.

Single Sign-On (SSO) Experience

Users experience the convenience of SSO, reducing the burden of remembering multiple credentials and enhancing productivity.

Flexibility in Deployment

Infisign NAG offers flexible deployment options, allowing organizations to choose the best-fit model for their specific needs.

Scalability

The solution is designed to scale effortlessly, accommodating growing user bases and resource demands.

Conclusion



Infisign Network Access Gateway (NAG) is a powerful solution that unifies federation and provides a secure Single Sign-On (SSO) interface for hybrid environments, encompassing both on-premise and cloud ecosystems. Leveraging Zero Trust architecture and industry-standard SAML and OpenID SSO protocols, Infisign NAG ensures robust security while enhancing user experience and productivity. Its flexible deployment options make it an ideal choice for organizations of all sizes seeking a secure and seamless access management solution.