Modernizing Access to SAP with Zscaler

Zscaler provides fast, secure access for employees and third-party users looking to access SAP - whether SAP is running on-premises or has been migrated to public cloud.

SAP is the lifeblood of business, but accessing it is not without its challenges

SAP has become the lifeblood application of most companies, housing critical payments, operations and customer data. Because of this, IT leaders must be able to ensure that employees and business partners have access to this business-critical app - from any location, any device and over any network. This must be done while protecting SAP from the deluge of cyber attacks that target SAP today, and by delivering the best user experience possible. SAP ERP solutions have historically been deployed on-prem in many G2000 companies, and as companies undergo digital transformation, their ERP environments are among the most complex applications to adapt to the modern workforce. Traditional connectivity services fail to provide the level of flexibility, security and simplicity around SAP that the business needs.

A need to modernize access to SAP to empower the business

The foundation of modernizing ERP solutions is to ensure that the modern workforce can access business critical applications in a secure and seamless manner. Organizations looking at modernizing SAP ERP solutions should consider connectivity services that enable the below:
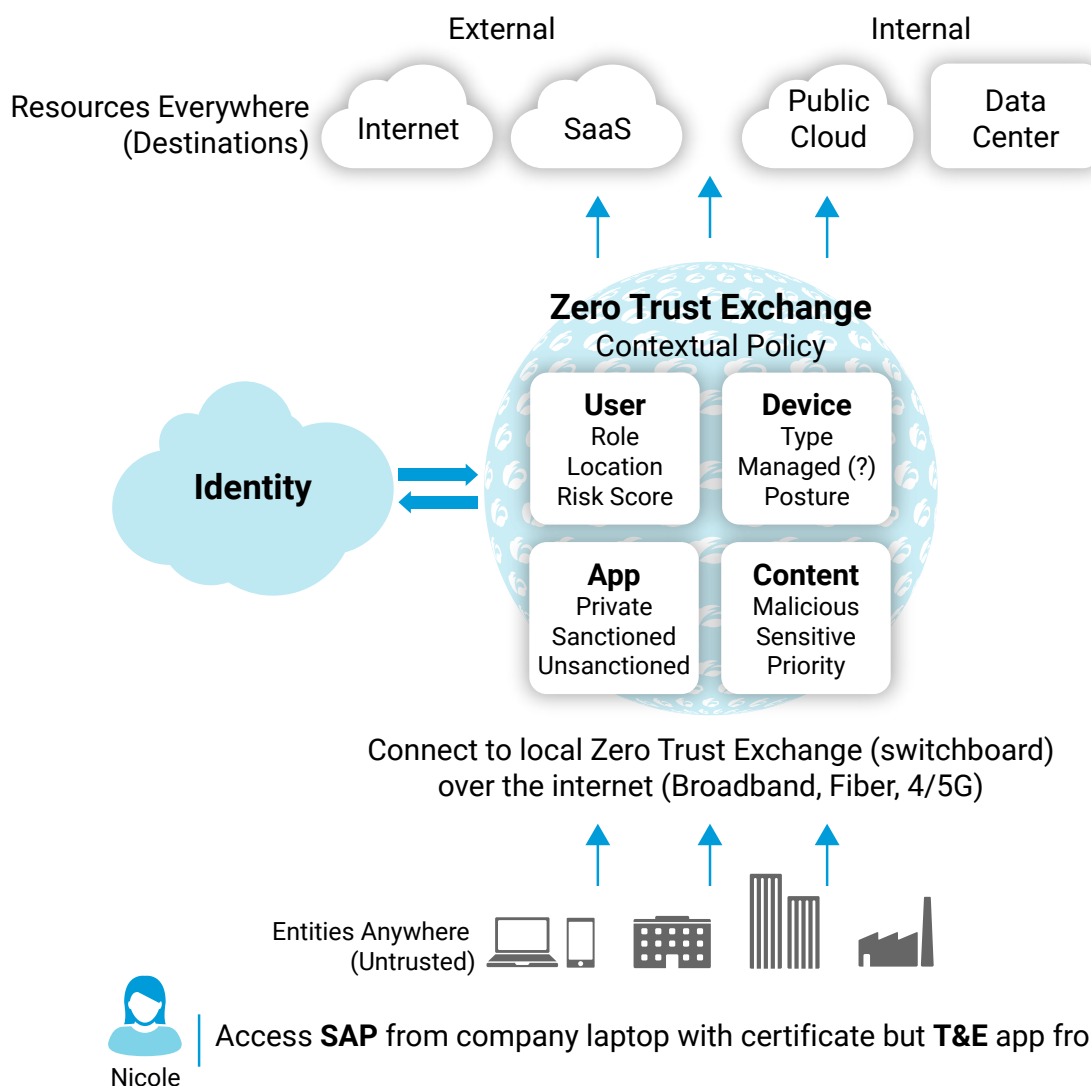
- Permit users to access SAP from any location, any device and any network
- Ensure fast, seamless and direct access to SAP and help to better manage user experience so IT can resolve issues quickly
- Protect SAP, and its critical data, from cyber threats that are designed to derail company operations - by minimizing exposure
- Decrease costs and remove the need to manage multiple network and security point products
- Accelerate SAP migration to S4/HANA and to public cloud (AWS, Azure, GCP) by reducing deployment time of access services
- Improve compliance with industry regulations

Zscaler + SAP: Fast, global remote access. Seamless, secure cloud migration

The Zscaler Zero Trust Exchange uses identity and policy to provide employees and business partners with fast, secure, and simple access to SAP - no matter where they're working - even if SAP is migrated to public cloud.

- **Enable connectivity to SAP from Anywhere on any device** - The service delivers the flexibility needed in order to connect users to SAP from anywhere in the world, from any device (Laptop, Smartphone, POS system, RF Scanner) over any network connection (wifi, 4G/5G, corporate network)
- **Ensure a great user experience when accessing SAP** - Zscaler provides the shortest path from user to SAP by routing user traffic to 1 of 150+ data centers worldwide. For the first time, you can even monitor each user's digital experience when accessing SAP and track network, app and device performance - to resolve IT issues quickly.
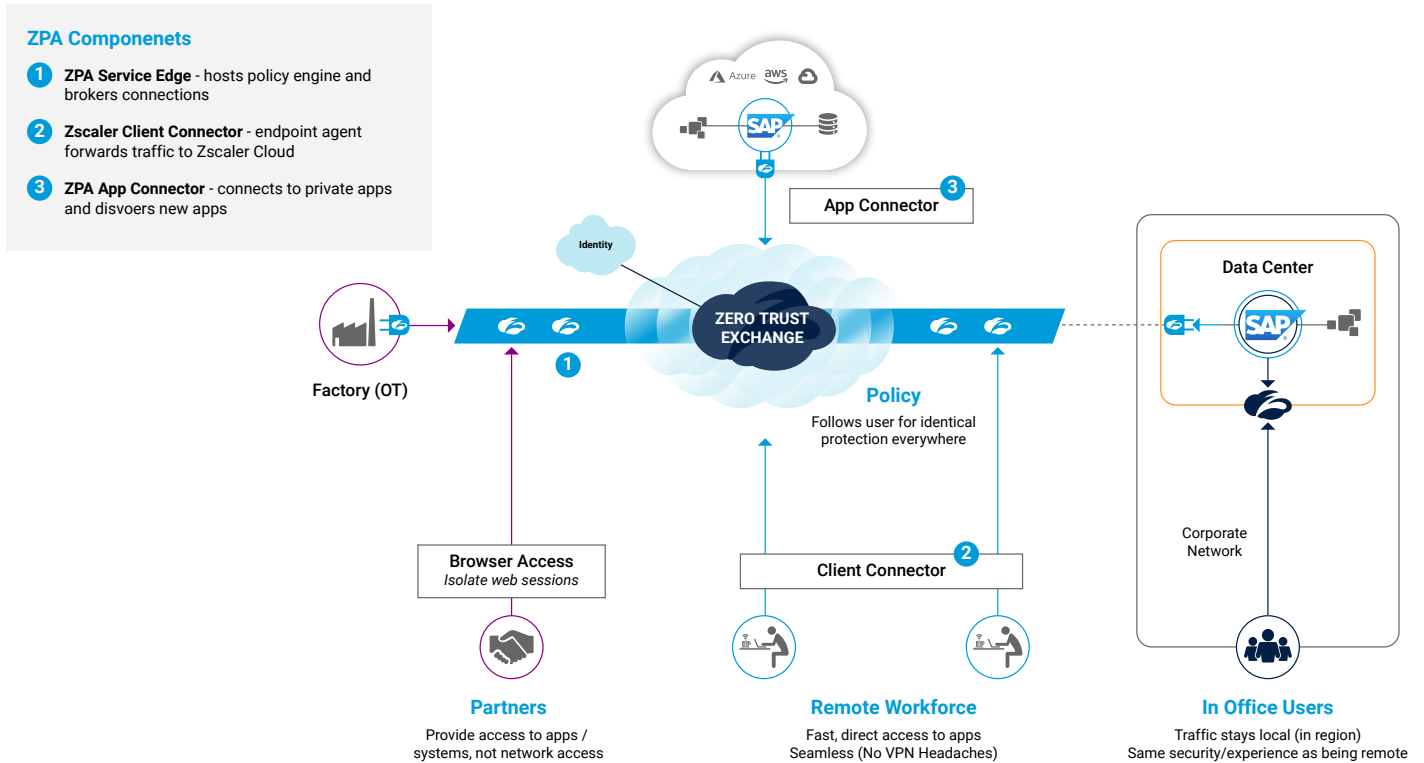
- **Protect SAP from cyber threats** - Zscaler for SAP HANA leverages user- and application-centric policies to provide access to SAP without placing users on the network (or using a VPN), and without exposing SAP to the Internet. This minimizes the attack surface and allows businesses to reduce the chance of ransomware attacks and prevent over privileged access to the network.

- **Reduce Networking and Security Costs of SAP**- 100% cloud-native architecture eliminates VPN gateways, and network and security appliances that are limited by capacity and drive-up costs. Zscaler allows IT to standardize access across datacenter and public cloud environments with a single cloud-native access service

- **Accelerate SAP Cloud Migration** - Zscaler ensures that access to SAP goes uninterrupted during a cloud migration process. The cloud service can be integrated with a migrated SAP app in minutes, and requires no appliances to be deployed. Secondly, Zscaler obfuscates this entire SAP migration from the user. Their experience is the same as when SAP ran in the datacenter, and the user simply accesses SAP as they always have.

Resources Everywhere (Destinations)

External

Internal

Internet   SaaS   Public Cloud   Data Center

Zero Trust Exchange
Contextual Policy

User
Role
Location
Risk Score

Device
Type
Managed (?)
Posture

App
Private
Sanctioned
Unsanctioned

Content
Malicious
Sensitive
Priority

Identity

Connect to local Zero Trust Exchange (switchboard) over the internet (Broadband, Fiber, 4/5G)

Entities Anywhere (Untrusted)

Nicole

Access **SAP** from company laptop with certificate but **T&E** app from BYOD

Top Use Cases for Zscaler and SAP

1 Enable Zero Trust Access to SAP from Anywhere – without VPN

The Zscaler Zero Trust Exchange provides fast, seamless, and secure access to SAP from anywhere, without placing users on the network, exposing apps or requiring appliances.

ZPA Componenets

1 **ZPA Service Edge** - hosts policy engine and brokers connections

2 **Zscaler Client Connector** - endpoint agent forwards traffic to Zscaler Cloud

3 **ZPA App Connector** - connects to private apps and disvoers new apps

Azure aws

App Connector **3**

Identity

ZERO TRUST EXCHANGE

1

Factory (OT)

Data Center

SAP

Policy
Follows user for identical protection everywhere

Corporate Network

Browser Access
Isolate web sessions

Client Connector **2**

Partners
Provide access to apps / systems, not network access

Remote Workforce
Fast, direct access to apps
Seamless (No VPN Headaches)

In Office Users
Traffic stays local (in region)
Same security/experience as being remote

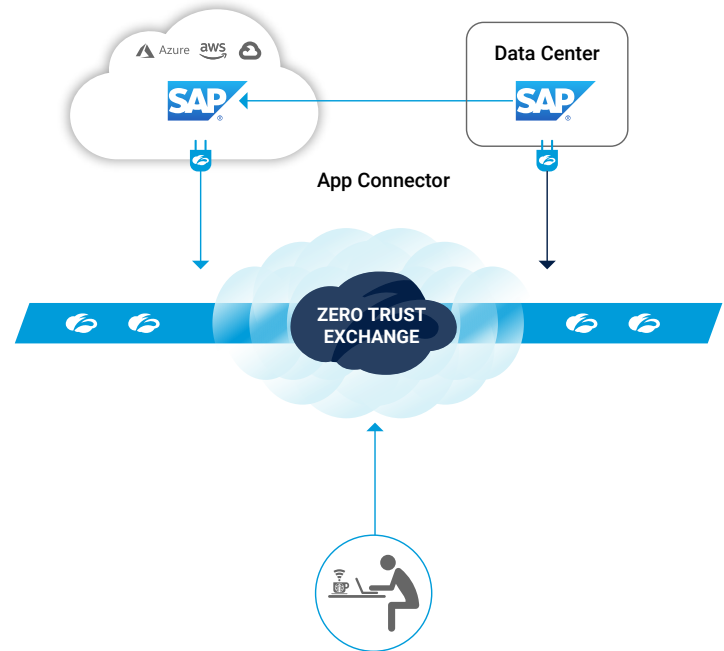| **Maximize productivity**	**Connectivity from anywhere**	**Shield SAP from cyber threats**	**Cloud-delivered access**
Users no longer need to fire up VPN to access SAP	Remote users connect to ZPA through the closest Zscaler public service edge	SAP is placed behind the Zscaler cloud service – and never exposed to Internet	No VPN appliances on inbound gateways to manage
Users connect to SAP from anywhere in the world, over any network connection	In-office employees connect to SAP through an on-prem private service edge	Employees & third-parties are never placed on corporate network	Reduce infrastructure and MPLS costs

> DMZs and legacy VPNs were design for the networks of the 1990s and have become obsolete because they lack the agility needed to protect digital businesses."
>
> **– Gartner, Sept 2016**

2 Accelerate Migration to S/4HANA Enterprise and Public Cloud

Zscaler simplifies and speeds up SAP migrations by reducing the networking complexities around user access that are typically encountered when transforming from on-premise datacenter to public cloud.

1. User attempts to access SAP in DC from device

2. ZPA identifies closest app connector in DC

3. App connector sends inside out connection and user to SAP connection is brokered by Zscaler cloud

4. SAP migration to public cloud takes place

5. App connectors are deployed in public cloud. Upon next access attempt ZPA identifies new apps connector near SAP

6. App connector sends inside out connections and user to SAP connection is brokered by Zscaler cloud

7. User seamlessly accesses SAP within public cloud (no change in access experience)

Data Center

App Connector

ZERO TRUST EXCHANGE

Keep the business running	Seamless user experience	Reduce IT Friction	Secure cloud migration
ZPA application connectors can be deployed in minutes,	Users accessing SAP through Zscaler are completely unaware of any migration	With Zscaler there are no appliances to purchase or manage.	Once migrated, SAP remains protected behind the Zscaler exchange – reducing its attack surface
No downtime during migration	SAP experience is consistent across all locations and devices	Once deployed, the service automatically handles connectivity to SAP	Access to SAP connectivity is always based on identity and policy – adapting as needed

> " In the process of moving SAP to AWS, ZPA gives us the flexibility to terminate those users wherever we need to. We can run in one region in AWS, then have those users connect seamlessly by a policy change."
>
> **– Eric Fisher, Director IT Enterprise Systems, Growmark**

For more information on Zscaler solutions for SAP, please visit **Zscaler ZPA for SAP**
Interested in enabling SAP access via Zscaler? Talk to your sales rep or **set up some time to meet with us**.