

Active Directory Privileged Access SOLUTION BRIEF



Privileged Access for Active Directory

AuthNull provides simplified privileged access for Active directory

- Privileged Account Management for Active Directory user accounts
- Privileged Session Management and Recording
- Credential rotation for Active Directory users

- Automated on-boarding and off-boarding of users
- Creates policies for all permissions that the users have access to.

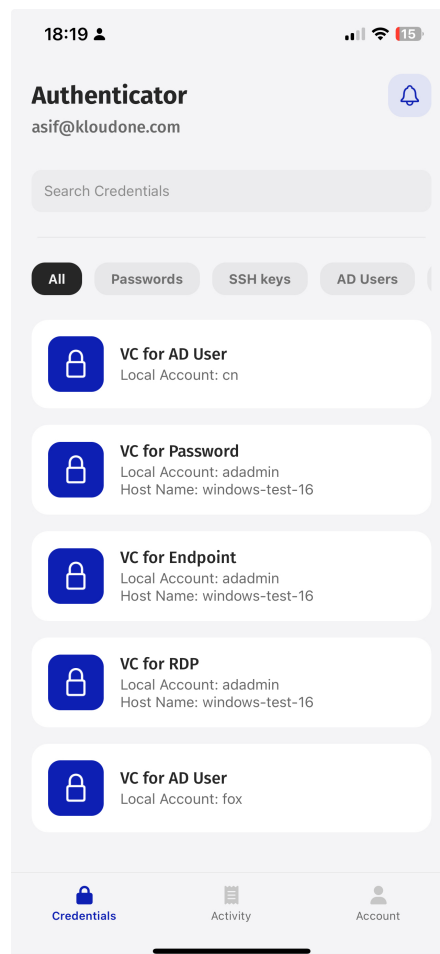
AuthNull enables active directory integration with the help of an Agent that sits near the Domain controller.

On-boarding and off-boarding of users

When user's are on-boarded to active directory (via a HR system), they are automatically on-boarded to AuthNull, and when they are removed from Active Directory - their wallets and credentials are automatically removed.

All users who are on-boarded to AuthNull receive Wallet invites. When the users register the wallet with their identity, they typically setup their biometric MFA.

With the wallet in place, users can receive credentials and authenticate to systems with biometric MFA.



Automated granular policy creation for Active Directory

AuthNull discovers granular controls based policies automatically

AuthNull discovers user policies based on existing active directory authentication and authentication logs. This enables:

- Granular policy creation
- Discovery of credentials,
- Rotation of credentials based on tenant configuration
- Issues identities for all active directory users; removes users as they are removed from active directory.
- Creates policies for all permissions that the users have access to.

Granular Policy Creation & Credential Issuance

AuthNull’s policy engine starts working as soon as you setup the endpoints and setup the tenant in “Audit mode” so that the system can then start discovering policies.

Administrators can then review requests on the **Authentication policies > Requests**

These policies are discovered automatically for active directory accounts or local privileged accounts

Authnull

Tenant has policies in audit mode

Dashboard

Endpoint

Jump Server

Credential Rotation

Authentication Policies

Requests

Policies

Authentication Logs

Service Account

Requests

Access Type

Active Directory

Ou

Search OU

Domain

Search Domain

Endpoint

Search Endpoint

Applied Filters:

logType: AD

Wallet User	Directory User	Destination Hostname	Destination IP	Policy Action	Auth Count	Policy Search	Action
[+] asif@kloudone.com	fox	windows-20-test	172.203.210.137		3	3 related policies found	:
[+] —	ali	windows-test-17	57.151.91.59		2	3 related policies found	:
[+] asif@kloudone.com	fox	windows-test-17	57.151.91.59		13	3 related policies found	:
[+] —	asif@kloudone.com	windows-test-17	57.151.91.59		17	3 related policies found	:
[+] hussain@authnull.com	fox	4.227.155.162	—	Approved	18	3 related policies found	:

1–100 of 100

On the create policy screen, administrators can select default options to create a policy:

Creating new policy for fox

What ?

Directory Users

fox

Endpoints and Endpoint Groups

Endpoints

Endpoints List

windows-20-test

Who ?

Wallet Users

asif@kloudone.com

Policy Action

Allow

In Review

Activate

When these policies are created, users are notified on their mobile wallets with a credential specific to the policy that is extremely granular.

Credential Rotation

Admins can quickly setup the Active directory credential rotation. policies and rotate credentials for all users. As credentials are rotated, the users receive them on their wallets.

Credential Rotation Policy Password

Copy from Template

Default

* Policy Name

AD group rotation

* User Type

LDAP

* Endpoints

Select endpoints

* Endpoints Groups

Select endpoints groups

* Rotate Every

1 day

Cancel

Save

Enabling access to new users

New users simply need to attempt to connect (using RDP) or a direct login to the target machine. When they do that, new authentication requests popup on the Authentication requests screen which can be converted to a policy instantaneously.

Remember that when this happens (a) new policies are created (b) new granular credentials are created and (b) possibly credentials are rotated (while using shared accounts).

“Biometric MFA and Identity Protection is baked into AuthNull”

Biometric MFA & PKI

Biometric MFA that is AAL2 compliant is baked into AuthNull. When users are on-boarded, the wallet requires user verify the identity with a wallet key. This wallet key uses public key cryptography and uses a public / private key pair which each user receives. This private key is used to sign credentials received by the user, which are then verified by the user’s public key by the organization.

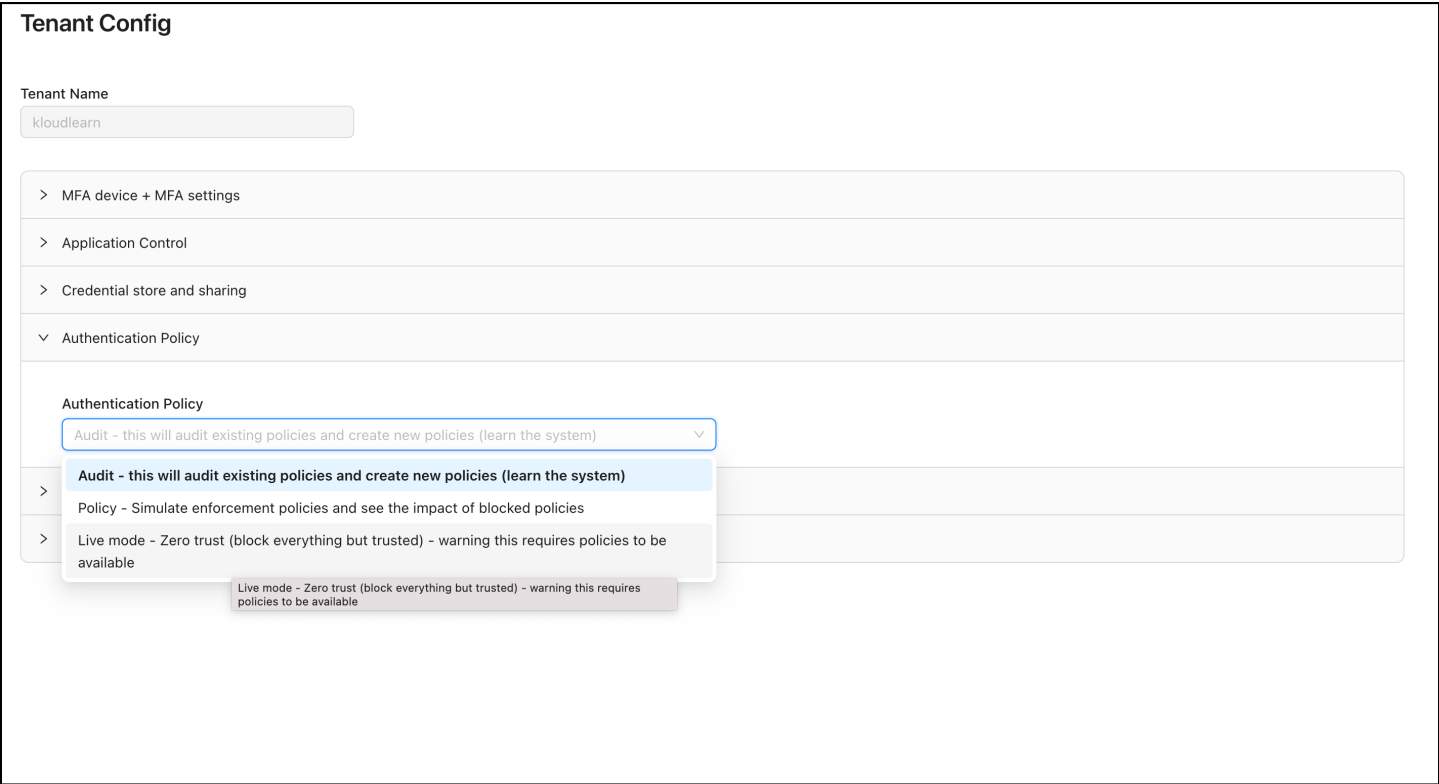
Two roots of trust: AuthNull relies on user’s public-private key pair as well as organization’s public private key pair in order to sign, create and verify credentials

Path to Zero Trust on Active Directory

To get to Zero trust on Active Directory here are the set of steps that need to be followed.

Milestone	How?	Steps	
Onboard active directory	Install AD Agents	<input type="checkbox"/>	Install AD agent
Onboard users	Send user wallet invites (automated process)	<input checked="" type="checkbox"/> <input type="checkbox"/>	Issue wallet invites Users download apps
Onboard endpoints	Install Agents on endpoints	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Configure agent Verify MFA Issue Credentials
Policy setup	Setup policies	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Start in audit mode Discover policies Create policies Switch to Zero trust

Moving to Zero Trust



Moving to zero trust requires that the administrator change the global tenant settings to policy enforcement mode as shown above.

To access this setting go to **Tenant > Tenant Config > Authentication Policy** and change the value to **“Live mode”**

Once these set of steps are implemented, you’re infrastructure is ready and implementing Zero Trust.



Contact Information

We would love to hear from you!

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