

Vault Leases for Vault Associate (003)

Vault Leases Overview



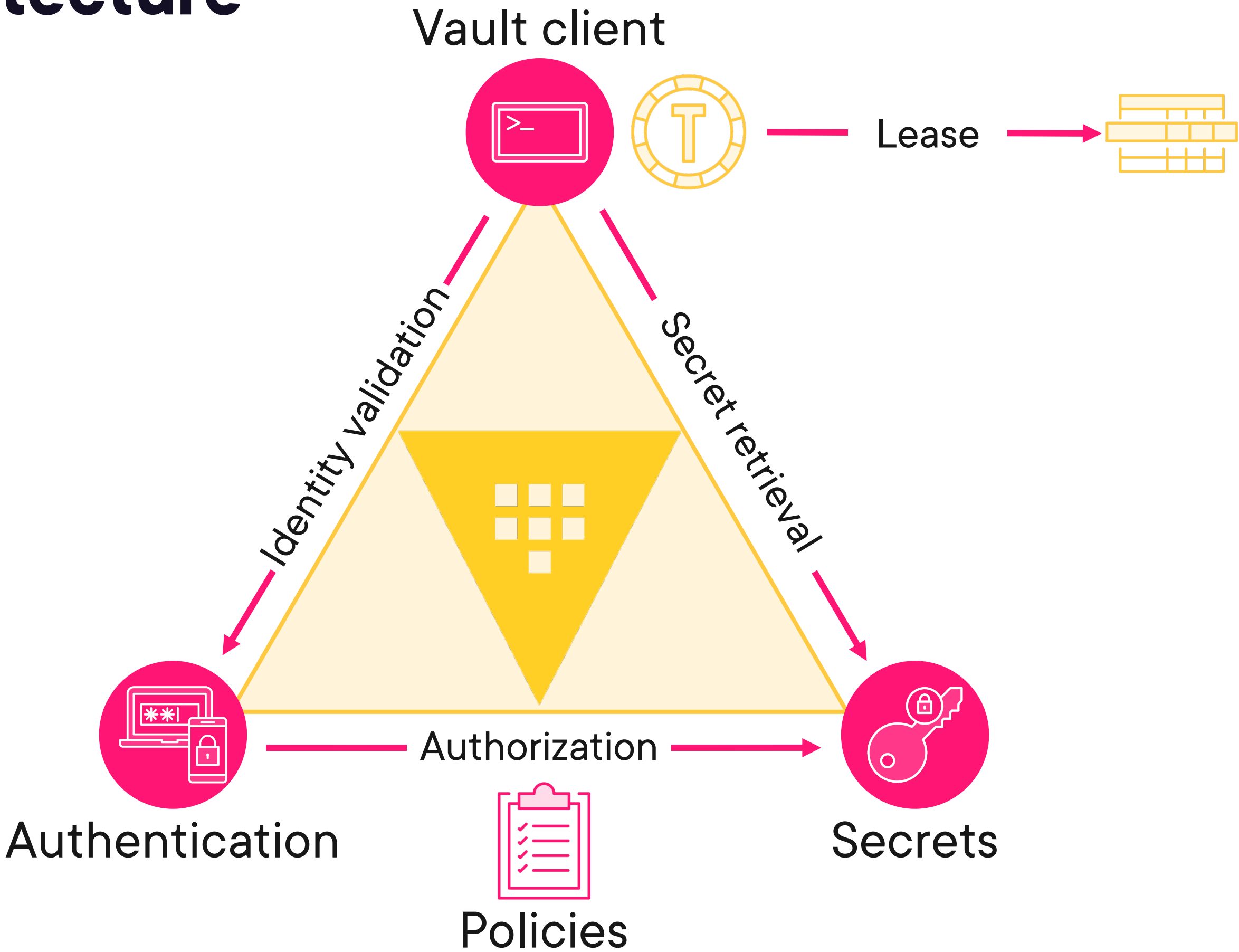
Ned Bellavance

HashiCorp Certified Instructor

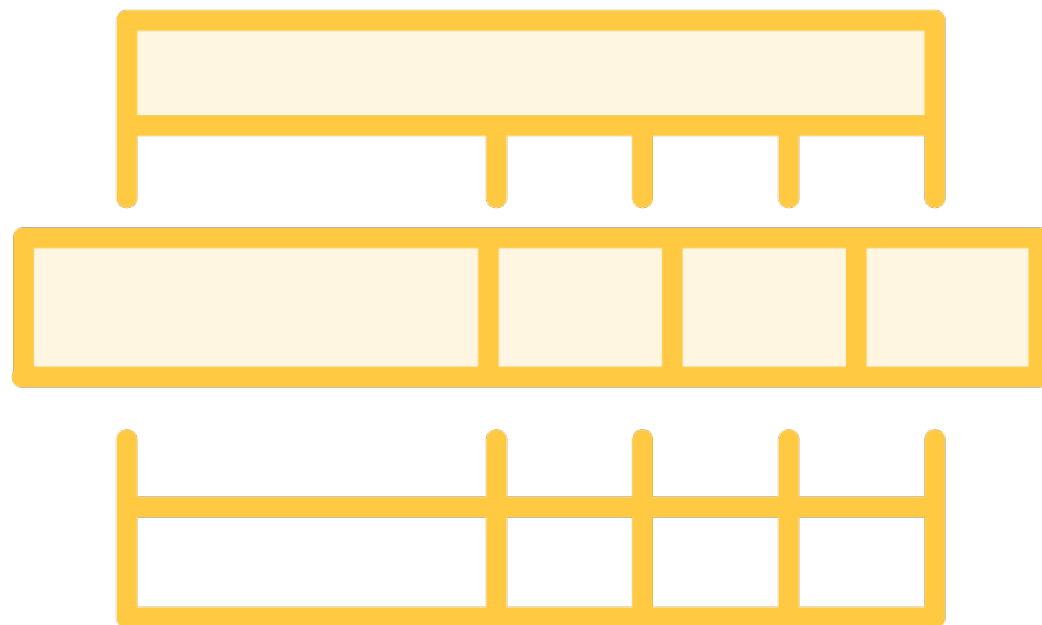
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Vault Architecture



Vault Leases



Created with dynamic secrets or non-root tokens

Guarantee of validity from Vault

Tokens managed through auth method

Focus on dynamic secrets

Lease ID

- Similar to token accessor
- Used to interact with lease

Lease Properties

Key	Value
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expire_time	2025-02-24T15:01:22.9931487-05:00
id	database/creds/readonly/y0pnZCQjG3yQ1bmBqgkYm5iM
issue_time	2025-02-24T14:01:22.9931487-05:00
last_renewal	<nil>
renewable	true
ttl	59m48s



Lease Time-to-live



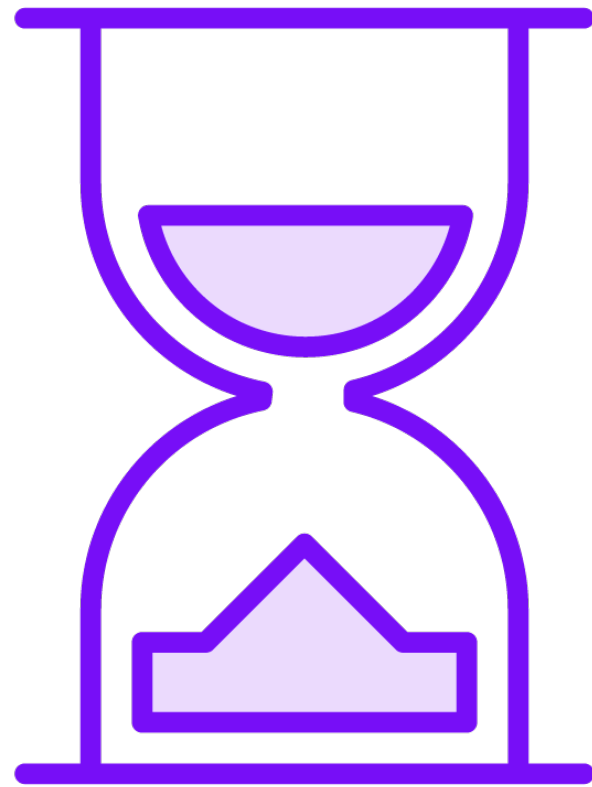
All leases have a TTL

TTL is an absolute value

Lease expires when TTL runs out



Max TTL



Maximum lifetime based on creation time

Max TTL sources

- System max TTL
- Secrets engine max TTL
- Object max TTL

Most stringent wins

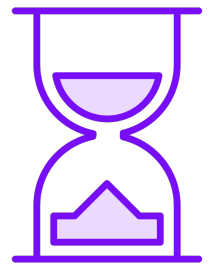
- Object cannot be longer than secrets engine



Lease Renewal



Renewal extends TTL



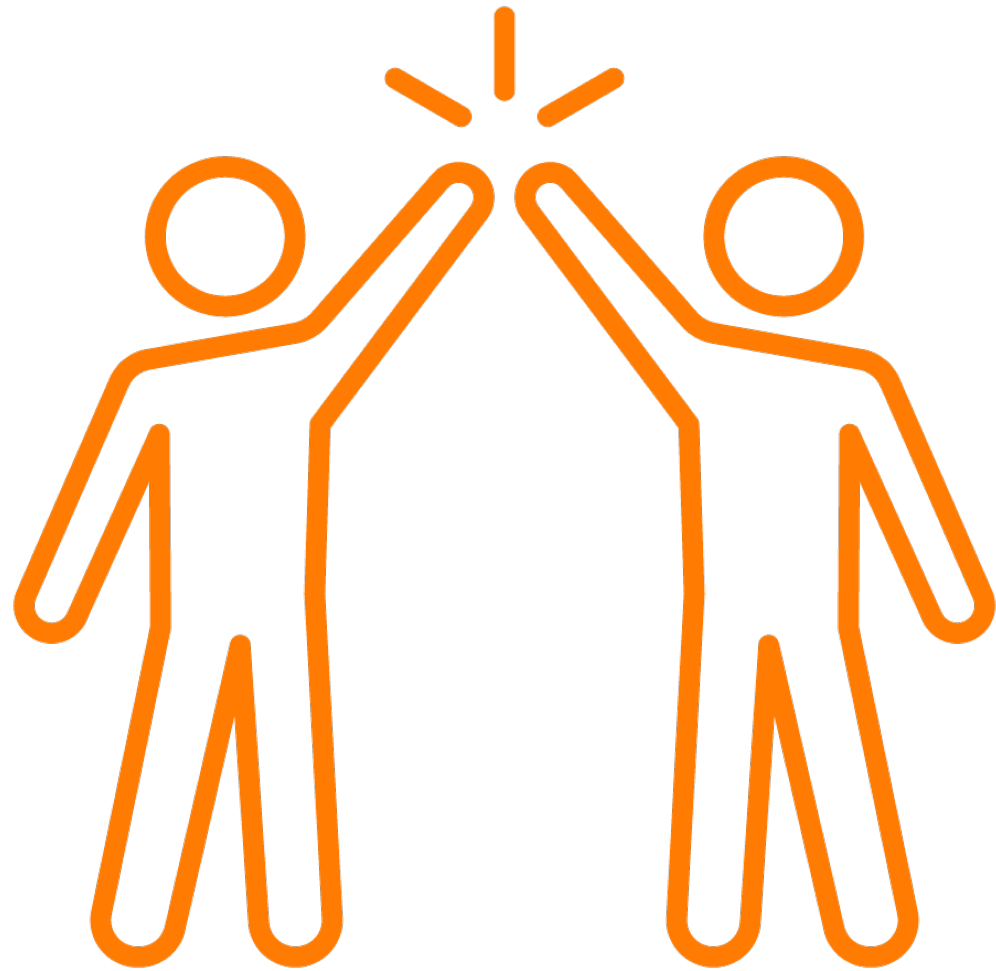
Cannot exceed max TTL



Evaluated during renewal



Tokens and Leases



Leases guarantee validity

Secret or token purges at expiry

Token expiry managed by auth method

Secret expiry

- Secrets engine settings
- Requestor token lifetime

Tokens and leases work together

