

# Credential Stuffing Detection via Reused Breached Credentials Across Services, Detection Strategy DET0460

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## AN1262

Multiple failed authentication attempts using distinct username/password pairs from a single IP address or session within a short time window, targeting common services like RDP or SMB

### Log Sources

### Mutable Elements

Field	Description
UsernameUniquenessThreshold	Minimum number of unique usernames in failed login attempts before triggering alert
TimeWindow	Duration (e.g., 5 minutes) to observe the behavior chain of rapid login attempts
SourceIPScope	Whether to group by full IP or CIDR block for bursty behavior from botnets

## AN1263

Rapid login failures across different users from a single IP address, targeting SSH or PAM login with distinct username-password pairs

### Log Sources

### Mutable Elements

Field	Description
LoginFailureRatio	Ratio of failed logins per unique user attempted
AuthServiceFilter	Restrict detection to certain protocols (e.g., sshd, login, su)

## AN1264

Burst of failed authentications with rotating usernames against loginwindow or remote management service using reused breached credentials

**Log Sources**

**Mutable Elements**

Field	Description
DistinctUsernameCount	Tunable threshold for number of attempted usernames in a time window
RemoteAccessFilter	Restrict behavior detection to remote login interfaces

**AN1265**

Same source IP performing multiple authentication attempts using known breached username/password combinations across different identities in Azure AD, Okta, or Duo

**Log Sources**

**Mutable Elements**

Field	Description
BreachedCredentialSourceMatch	Optional enrichment using known leaked credentials database
SSOServiceScope	Targeting only federated or hybrid identity auth flows

**AN1266**

Multiple sign-in failures against cloud-based applications using username/password combinations leaked from unrelated domains

**Log Sources**

**Mutable Elements**

Field	Description
UserAccountOverlap	Correlate credentials reused across multiple SaaS platforms
FailedAttemptsPerIP	Number of failed logins from same IP before alerting

**AN1267**

Router/firewall/syslog logs showing authentication failures with unique usernames and reused credentials from same source IP

**Log Sources**

**Mutable Elements**

Field	Description
AuthProtocolFilter	Limit detection to interactive logins rather than SNMP/RPC
FailedAuthBurst	Detection trigger when failure rate exceeds normal profile

**AN1268**

Credential stuffing attempts against Kubernetes API or containerized login shells using stolen or leaked user credentials

**Log Sources**

**Mutable Elements**

Field	Description
PodAccessScope	Detect attempts across multiple pods/namespaces using same IP
CredentialSetSize	Number of username/password pairs used in attack attempt

**AN1269**

Use of leaked credential pairs against Outlook Web Access (OWA), Microsoft 365, or Exchange from a single client IP with multiple failures

**Log Sources**

**Mutable Elements**

Field	Description
PasswordSourceMatch	Optional: cross-reference to haveibeenpwned or internal credential dumps
MailboxLoginThreshold	Tunable value for how many unique mailbox attempts trigger alert

**AN1270**

Burst of failed login attempts across VM instances using leaked credential pairs from single IP in public cloud environments

**Log Sources**

**Mutable Elements**

<b>Field</b>	<b>Description</b>
InstanceIDScope	Define if detection should group logins per host or across cluster
IPBehaviorHistory	Correlate against past IP reputation or behavioral profiles

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Source: <https://attack.mitre.org/detectionstrategies/DET0460#AN1263>