

# It's a MACHINE JUNGLE Out There...

## Organizations Are Supersaturated With Machine Identities and Numbers Keep Climbing

**79%** Security leaders expect the number of machine identities to grow over the next year

### MACHINE IDENTITY GROWTH PER YEAR

**63%** Predict an increase of up to **50%**

**16%** Project radical growth of **50-150%**

## Threat Actors Increasingly Prey on Machine Identities

**50%** Reported security incidents or breaches linked to compromised machine identities in the past year

### TOP MACHINE IDENTITIES THAT HAVE CAUSED A SECURITY INCIDENT

**34%** API keys

**34%** SSL/TLS certificates

**29%** IoT certificates

### LARGEST BUSINESS IMPACTS

**51%** Application launch delayed

**44%** Outages impacted customer experience

**43%** Attackers accessed sensitive data or networks

## Teams Recognize Potential Pitfalls, Current and Future

**79%** Feel that every undiscovered machine identity is a potential point of compromise

#### AI ABUNDANCE

**72%** Moving beyond safely using GenAI to protecting models

#### CLOUD NATIVE CASCADES

**74%** Say attackers are focused on cloud native machine identities

#### CERTIFICATE SNAGS

**72%** Reported at least one certificate-related outage in 2024

## Tangled Amidst It All?

A Need for Machine Identity Security

Report having some form of a machine identity security program **92%**

Lack a cohesive strategy across environments, business units and machine identity types **42%**

Prioritize securing machine identities exclusively **23%**

### GREATEST CHALLENGES WHEN SECURING MACHINE IDENTITY ASSETS

Quickly revoking and replacing machine identities **38%**

Identifying who controls access to the app or device using the machine identity **38%**

Identifying the location of the app where the machine identity is in use **37%**

### AUTOMATION UNDERUTILIZED

Still use manual or non-automated methods to manage machine identity lifecycles **34%**

## A New Trail Emerges, But There's a Long Way to Go

In 2025 and beyond, organizations plan to:

- 44%** Increase use of machine identities to better secure systems and data
- 43%** Deploy more automation
- 39%** Increase machine identity visibility
- 39%** Investigate how machine identities can help protect LLMs
- 35%** Plan for migrating to quantum-resistant encryption
- 34%** Shift to operate at the workload level

Find Your Path Through the

# MACHINE JUNGLE

[Download](#) the full CyberArk 2025 State of Machine Identity Security Report today.