

# Accelerating Cloud Security to enable Al:

How security teams can adopt a new operating model to enable agile Al adoption



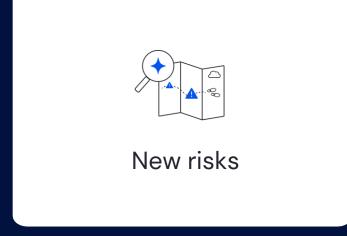


# The cloud has changed everything

# Cloud changed everything



How do I get visibility into my environment?

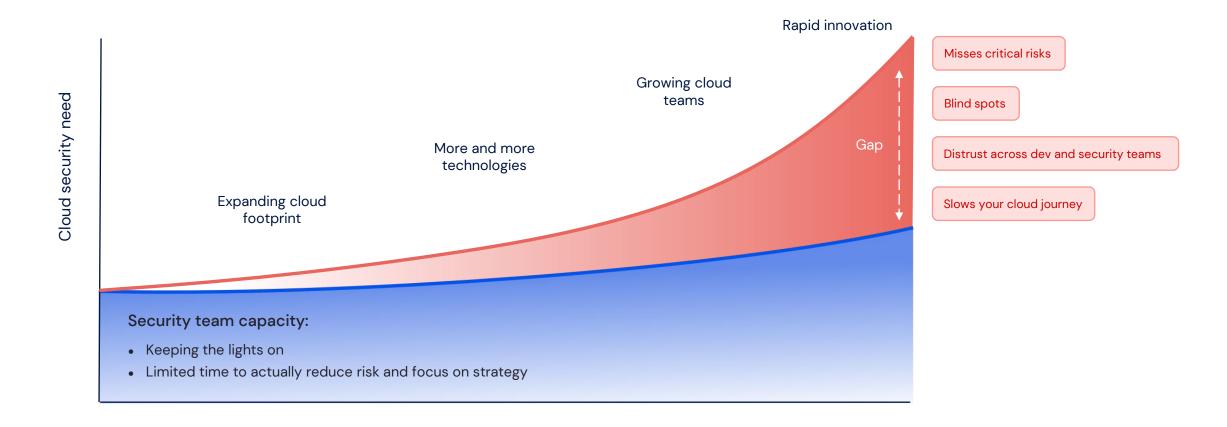


How do I prioritize the real risks and eliminate the noise?



How do I ingrain security into our teams?

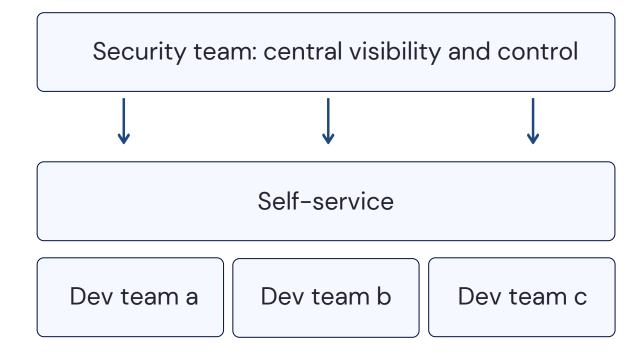
## Security teams are struggling to keep up with pace of cloud





# Cloud security needs a new operating model

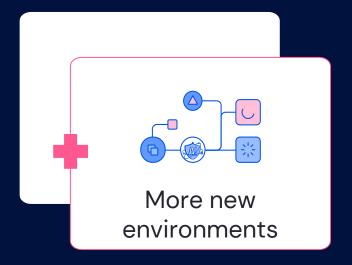
## Cloud security is a team sport



# Al changes everything again!

# Al Adoption adds a new layer of complexity





Complex system and data pipelines



Data leakage, model vulnerabilities

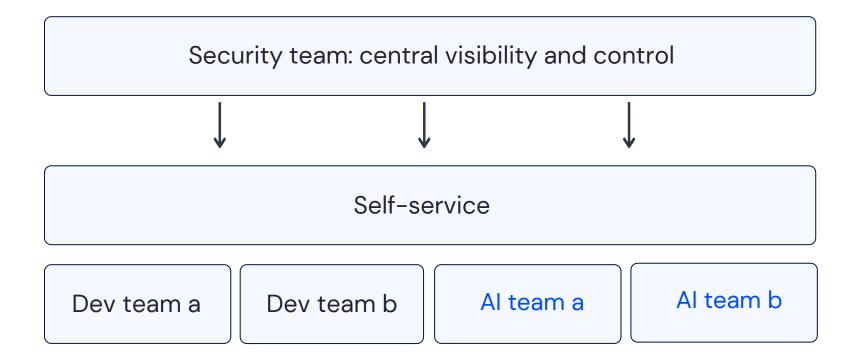


Al researchers, data engineers

# Al introduces new teams to the security operating model



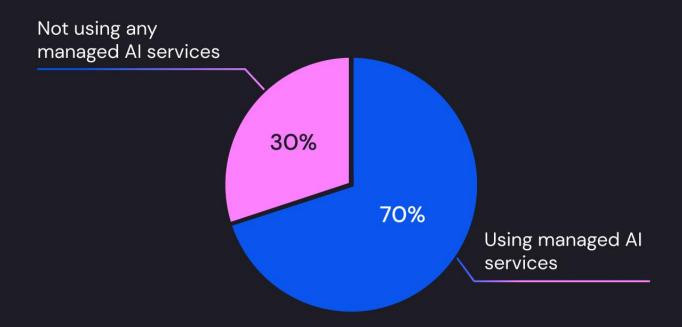
## Extend the cloud security operating model to Al



# Al has taken over the cloud:

Cloud-based managed Al services can already be found in over 70% of environments

# Percent of cloud environments using managed Al services



# Inaccuracy, cybersecurity, and intellectual-property infringement are the most-cited risks of generative Al adoption.



Generative Al-related risks that organizations consider relevant and are working to mitigate, % of respondents<sup>1</sup>



<sup>&</sup>lt;sup>1</sup>Asked only of respondents whose organizations have adopted AI in at least 1 function. For both risks considered relevant and risks mitigated, n = 913. Source: McKinsey Global Survey on AI, 1,684 participants at all levels of the organization, April 11–21, 2023



## Security is a main AI adoption blocker.





#### Al security knowledge gap

#### Lack of knowledge in Al

Security teams lack experience in AI systems and pipelines

#### Al pipelines are complex

Al system design is fragmented across multiple tools and steps. Requires a new approach to assess holistically.

#### AI teams lack security awareness

Al researchers tend to focus on delivery rather than a security-first mindset



#### New & unknown risks

#### **Data leakage**

What data might leak from the model? Is the training data exposed or sensitive?

#### **Vulnerabilities in AI models**

What makes an AI model vulnerable? Can an attacker manipulate it?

#### **Lateral movement**

How can attackers escalate via direct model interaction? Via training data poisoning? Via cloud tokens and permissions?



#### Rapidly evolving technology

#### **Explosion in usage of AI services**

Multiple AI projects are started in every team, impossible to track

#### **Complex architectures**

Dynamic and diverse set of AI build options, each with different risks

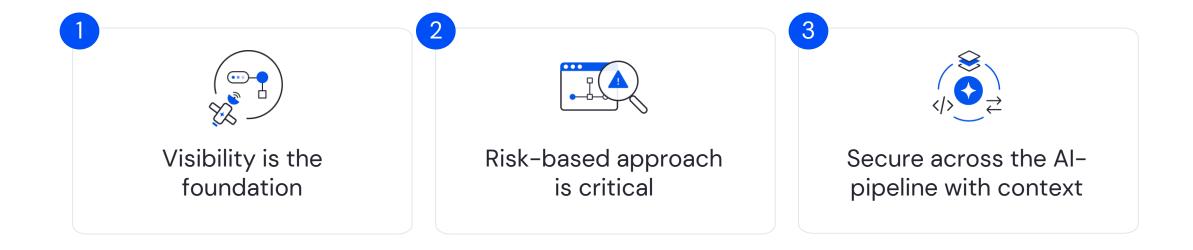
#### Thousands of technologies

Growing # of services, applications, libraries



# We learned from the cloud, let's apply the learnings to Al





From CSPM to AI-SPM, cloud security evolves with innovation



# AI-SPM: The four questions security organizations need to ask

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- ☐ Do I know what AI services and technologies are running in my environment?
- Do I know what risks exist in my Al pipeline?
- Can I prioritize the critical risks across the Al pipeline?
- ☐ Can I detect a misuse in my Al pipelines?







1. Do I know what AI services and technologies are running in my environment?

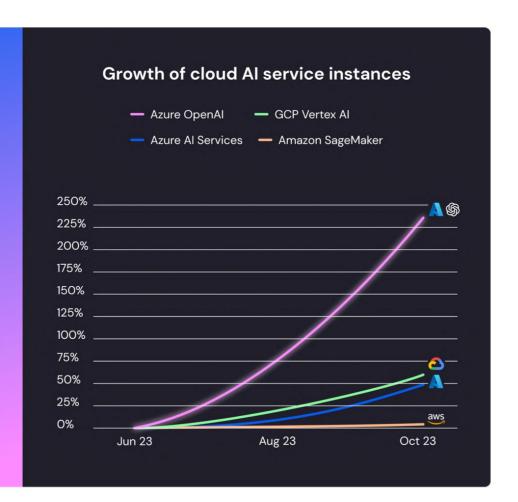
# Massive adoption of Al services





Organizations
have recently
more than
tripled their use
of Azure OpenAl
instances

**WIZ** Research



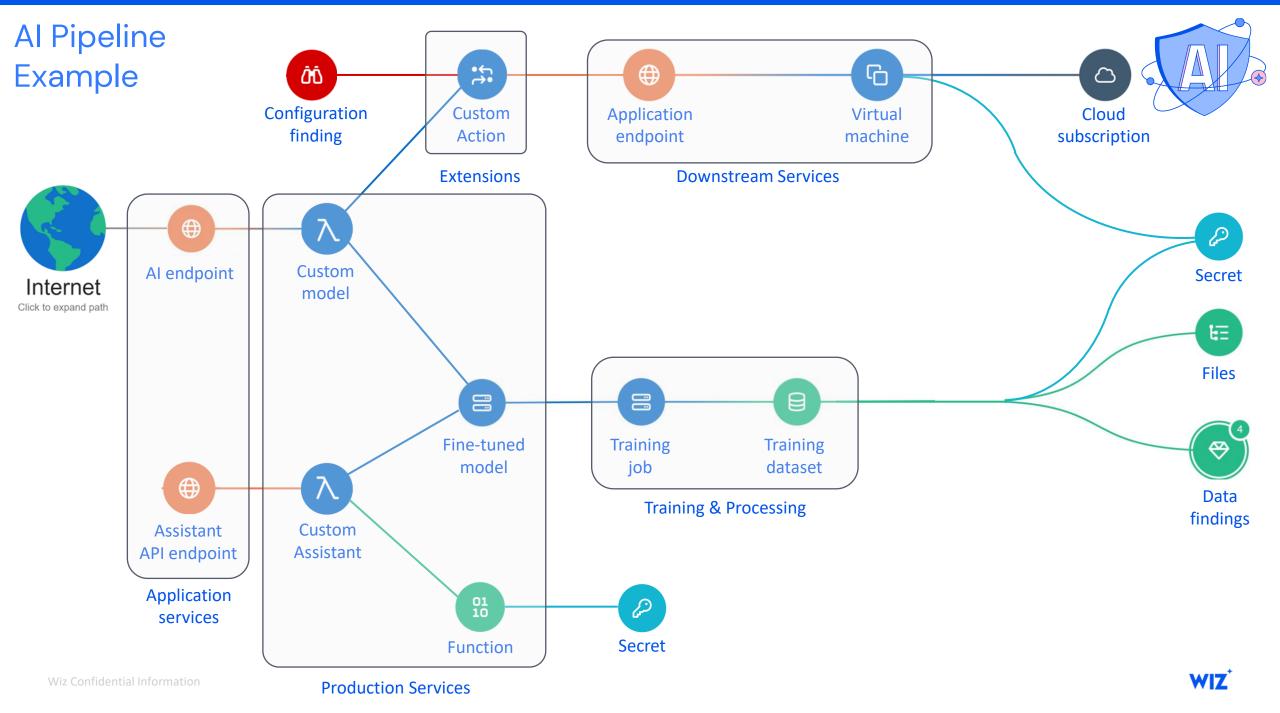
Source: State of Al in the Cloud 2024







2. Do I know what risks exist in my Al pipeline?







3. Can I prioritize the critical risks across the Al pipeline?

# Real-life example of an AI toxic combination











4. Can I detect a misuse in my Al pipelines?

# Can I detect a misuse in my Al Pipelines?

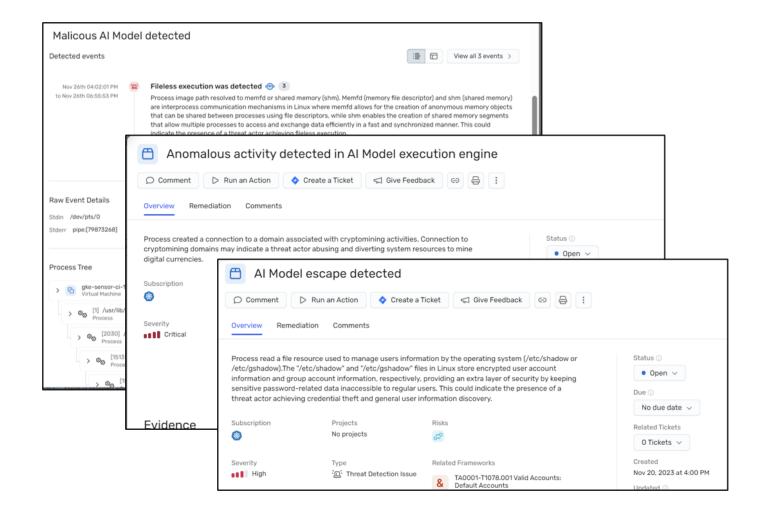
### Threat detection to respond to AI threats in real time



Real-time Threat detection

**Anomaly Detection** 

**Detect Attack Paths** 





# Introducing Wiz AI-SPM



Wiz provides native AI security capabilities, empowering organizations to accelerate AI innovation while staying protected against AI risks.

# The core components of Wiz AI-SPM





Visibility into Al pipelines



Proactively remove Al risks with context



Detect misconfigurations in Al services



Empower AI developers with easy-to-understand UI



# Agentless visibility with Al-BOM

Detect every AI technology with AI-BOM

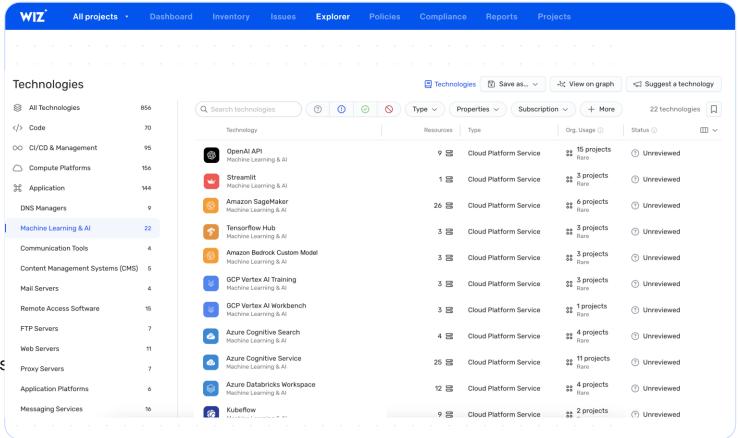
Al Services, SDKs, etc all without agents.

Remove shadow-Al

Immediate visibility into new Al services

End-to-end AI pipeline visibility

Detect every resource in Al pipelines, from the machine hosting the training job, to the data stores





# Supported AI cloud services









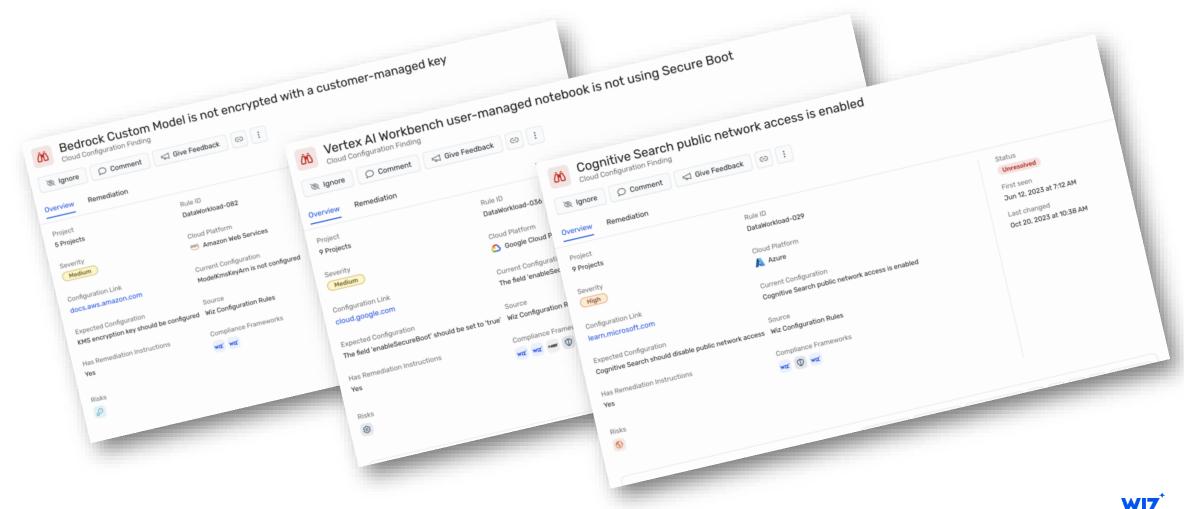






# Al Misconfigurations

Built-in misconfigurations rules for AWS Sagemaker, Amazon Bedrock, Google Vertex AI, Azure OpenAI, OpenAI





## Detect attack paths to AI and protect crown jewels

#### Deep risk analysis in Al pipelines

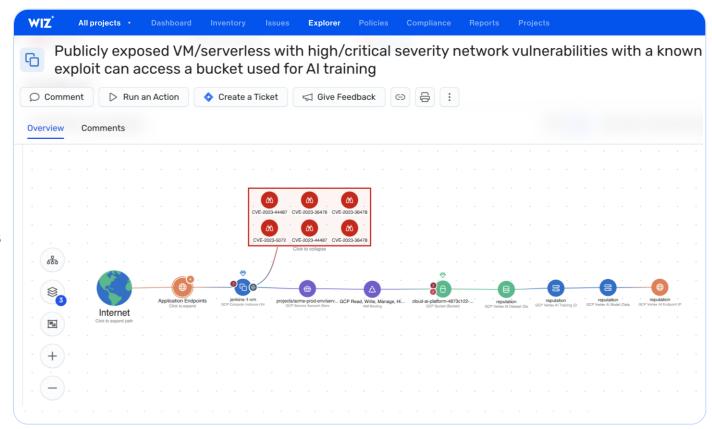
Detect AI vulnerabilities, misconfigurations, permissions, data, secrets, and network exposure

#### Protect sensitive training data

Protect sensitive AI training data and remove risks such as data poisoning

#### Remove critical attack paths to AI models

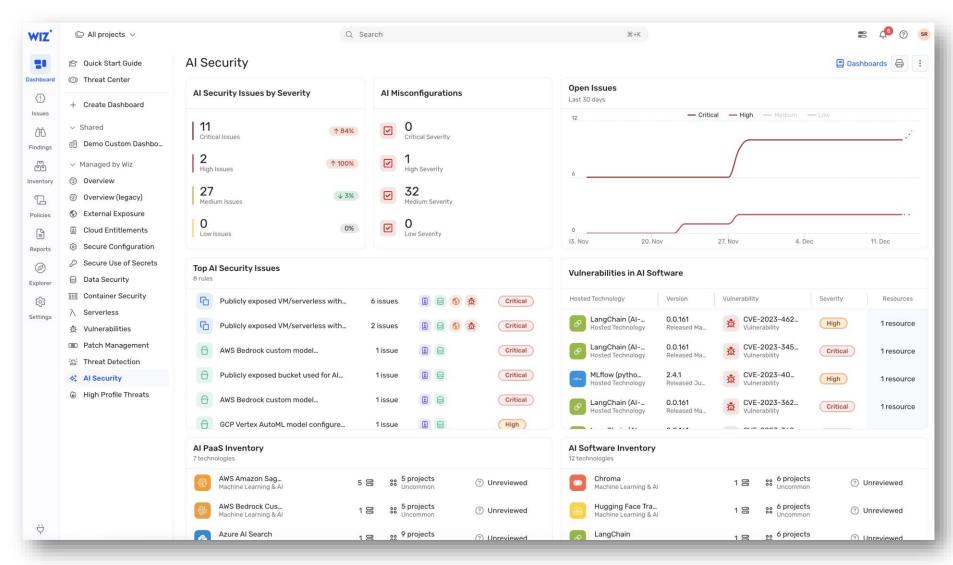
Proactively remove the most critical risks with context





# Centralized view of AI security posture

Empower developers and data scientists with a prioritized queue of AI risks





# AI-SPM: Let's apply our cloud learnings to AI

- Do I know what AI services and technologies are running in my environment?
- Do I know what risks exist in my Al pipeline?
- Can I prioritize the critical risks across the Alpipeline?
- Can I detect a misuse in my Al pipelines?



## One platform for the modern cloud security operating model



#### **Wiz Platform**

#### Wiz Code Secure Cloud Development

Secure every stage of your SDLC to gain visibility & prevent risks in code, pipeline, registries and images



#### Wiz Cloud Manage Security Posture

Agentless visibility & risk prioritization that proactively reduces the attack surface



#### **Wiz Defend** Respond to Cloud Threats

Cloud events and lightweight eBPFbased sensor to protect from unfolding threats as a last line of defense





Root cause analysis for risks and threats (Cloud to Code)



Build securely by design and detect drift (Code to Cloud)



#### THE LARGEST PRIVATE CYBERSECURITY COMPANY

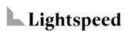
# \$1.9B raised













#### **SECURING LARGE CLOUD ENVIRONMENTS**

1 Billion

1 Trillion

Resources protected

Files scanned

#### THE LEADER IN CLOUD SECURITY

G2 Grid for Cloud-Native Application Protection Platforms (CNAPP)



SATISFACTION

#### More than 40% of the Fortune 100 secure their cloud with Wiz



















































































Questions?



# Want to see more magic about Wiz AI-SPM?

Follows us on LinkedIn



Book or see a demo

Come say hello at booth #10!

Learn about Wiz AI-SPM