



The Challenge: Securing AI/ML in the Cloud

Modern AI/ML development and deployment face critical security vulnerabilities.

Risk Level: **High Risk**

Pickle Module Vulnerability

Python’s pickle module poses a significant security risk, potentially allowing arbitrary code execution.

Risk Level: **36%**

Adversarial Attacks

36% of AI systems face compromised outcomes due to adversarial data manipulation.

Risk Level: **Critical**

Exposed GPU/CUDA Resources

Unauthorized GPU toolkit access remains a top concern in high-performance computing environments.

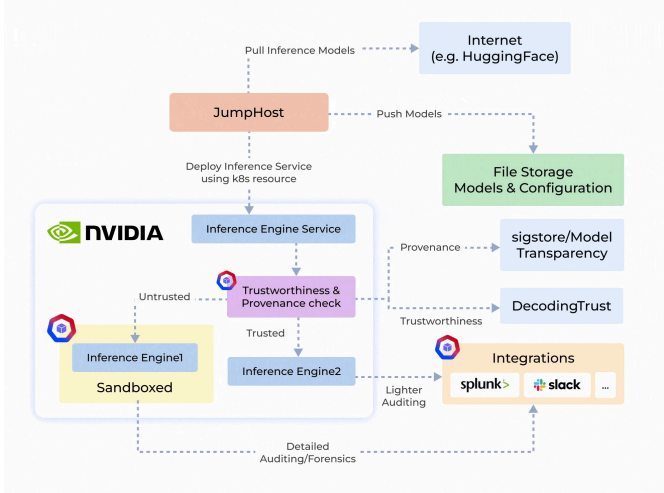
Risk Level: **80%**

Container Breaches

80% of organizations using containers face misconfigurations that lead to vulnerabilities.

The Solution: ModelArmor

Secure isolation for AI/ML workloads with KubeArmor sandboxing



Secure TensorFlow & PyTorch

Isolated execution for TensorFlow and PyTorch models.



Container Hardening

Prevents vulnerabilities in sandboxed container environments.



Sandboxed Testing

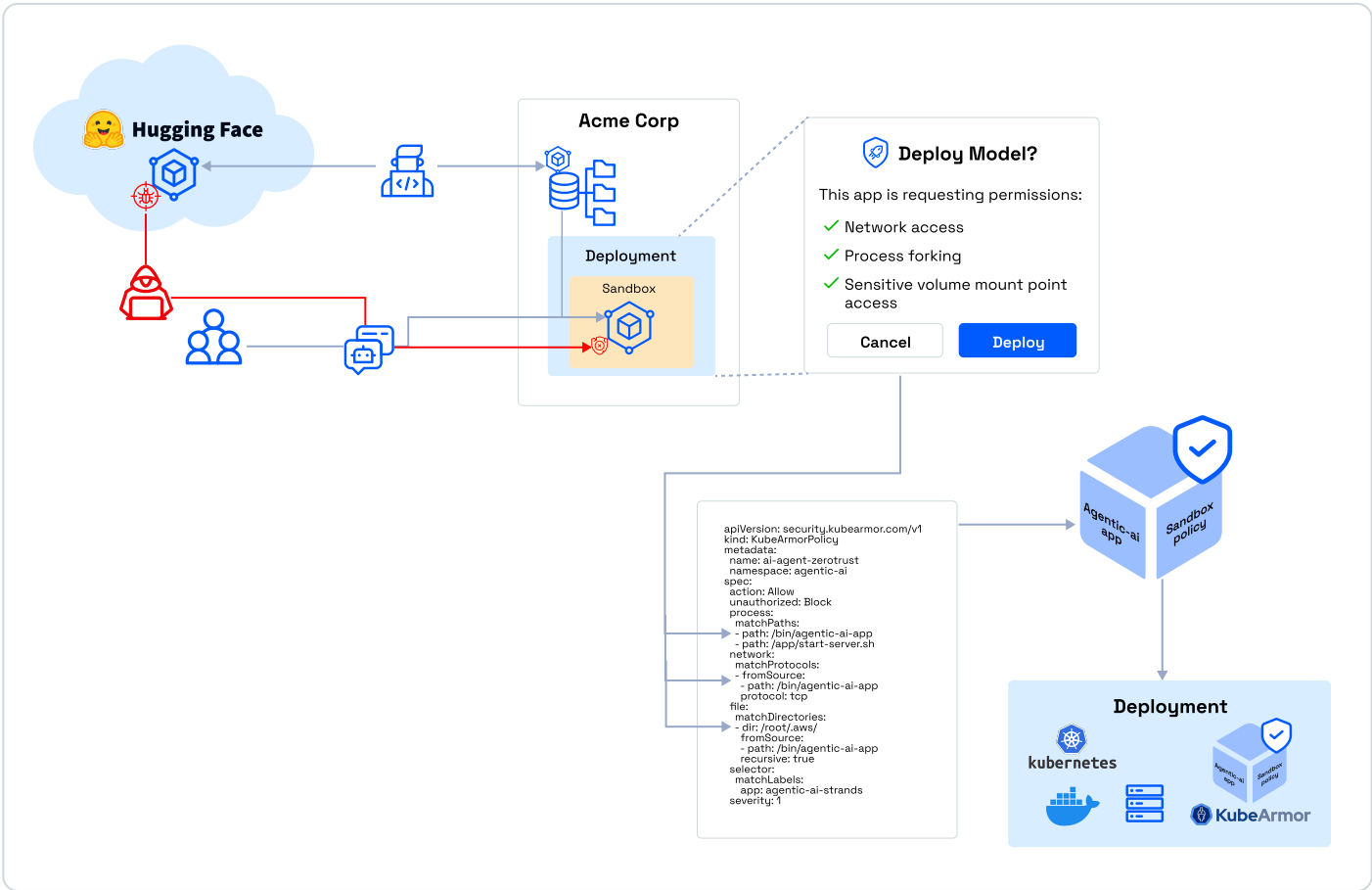
Ensures untrusted applications execute securely.



GPU/CUDA Security

Secures NVIDIA GPU toolkits from unauthorized access.

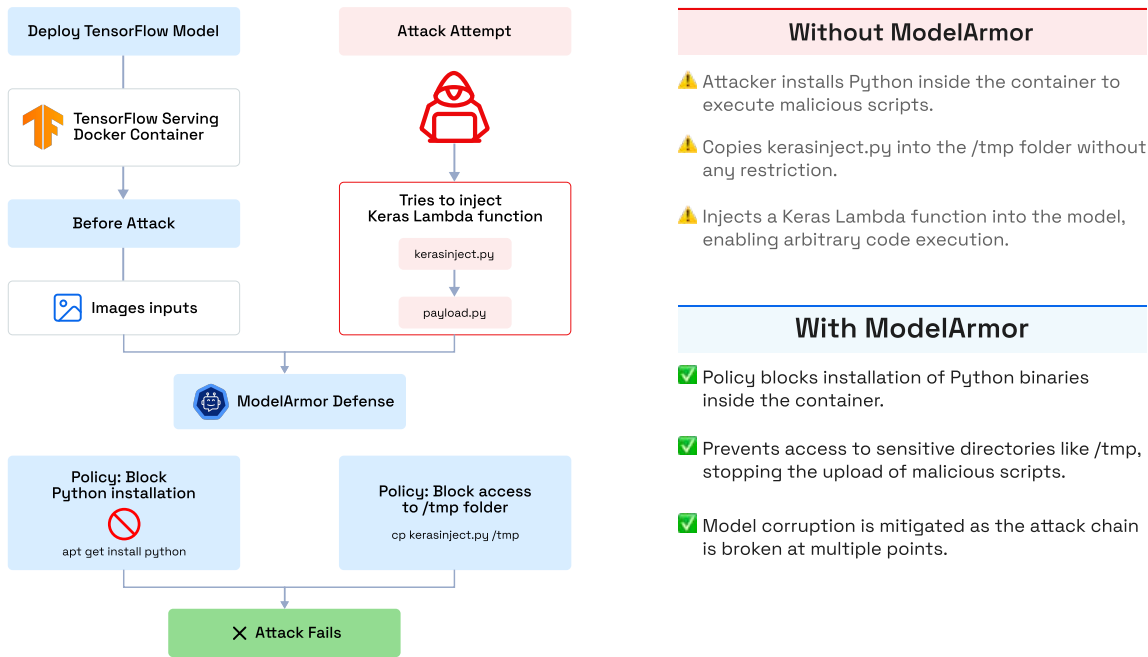
Deployment Architecture



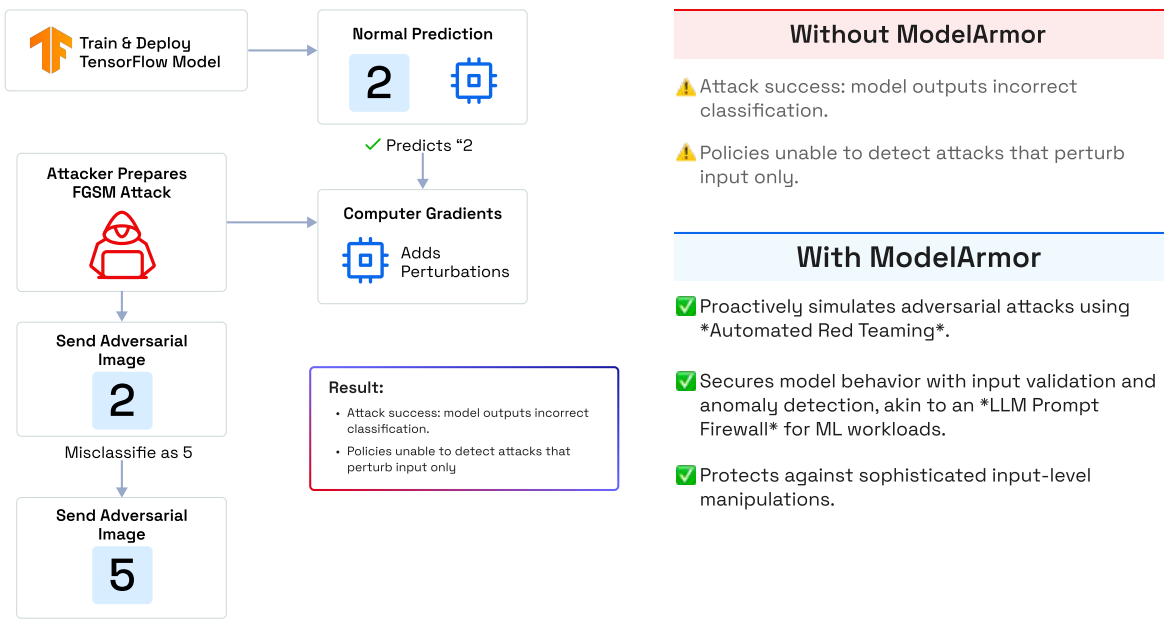


ModelArmor in Action

Defending Against Model Corruption Attack



FGSM Adversarial Attack on a TensorFlow Model



Sandboxing Agentic AI
Isolates untrusted models, blocking unauthorized actions



Zero Trust Policies
Granular process, network, and volume controls



Lightweight
No MicroVM overhead, supports any framework



NVIDIA GPU Protection
Prevents unauthorized access to GPU toolkits.



Blocks Package Installs & Network Call
Block /tmp access. breaks attack chains & blocks package installations like nmap & python



Sandboxed untrusted model execution
Untrusted code execution and file access restricted