

# OSINT Report – BROTOTYPE

Date 09-12-2025

Name : ATHU: V A

Target : Brototype

## OBJECTIVES

To conduct a comprehensive Open Source Intelligence (OSINT) investigation into **Brototype** (legally operating as **Packapeer Academy Pvt Ltd**) to verify its corporate legitimacy, map its digital infrastructure, and assess potential risks for students and stakeholders.

- **Corporate Verification:** To confirm the legal existence, registration status, and key decision - makers (Directors/CEO) of the entity "Packapeer Academy Pvt Ltd" using government databases (Zauba Corp, MCA).
- **Infrastructure Mapping:** To enumerate the company's digital footprint, including hidden subdomains, hosting providers, and third-party technologies (LMS, Tracking Pixels) to understand how they manage student data.

## TOOLS USED

- Basic company information (Linkedin,Instagram,reddit,)
  - > Linkedin
  - > Instagram
  - > reddit
  - > google
- Domain and Website footprint(cmd ping,nslookup)
  - > cmd(ping)
  - >nslookup
  - >DNS checker
  - >whois.domaintools
  - >SSL lab
  - >who.is
  - > DNS dumster
  - >Maltigo

## Company Overview

Name: Brototype/packapeer  
Co Founder/CEO: Nikil Kilivayil  
CO Founder/CTO:Faizal  
Founded: 07-05-2019  
Industry: Ed-Tech / Coding Bootcamp  
Products: IT related course  
Employees : 50-200  
Website : <https://www.brototype.com>  
Phone: 7034395811

## Office Locations (with Google Maps Links)

- > Kochi - <https://maps.app.goo.gl/uYSF7iZ2EZS9rDDR8>
- > Kozikode - <https://maps.app.goo.gl/kc94vyYG95WJBsQ7>
- > Thrivandrum - <https://maps.app.goo.gl/X2NSMFcbyb7eJbaU9>
- > Bengaluru - <https://maps.app.goo.gl/kNBG2mwDnLmZ9aTk8>

## Social Media

Instagram : <https://www.instagram.com/brototype.malayalam>  
youtube : <https://www.youtube.com/@BrototypeMalayalam>  
Linkedin : <https://www.linkedin.com/company/brototype>  
Facebook - <https://www.facebook.com/brototypemalayalam>

## Domain Information

Main website - <https://www.brototype.com>  
Domain Name - brototype.com  
Registrar – GoDaddy.com,LLC  
Expires-2030-11-10  
ip - 157.245.98.112

## DNSDumpster Results

Hosting Provider - DigitalOcean, LLC  
Location – Bangaluru  
ASN (Autonomous System Number) - **AS14061** (DigitalOcean Network)  
Network Range (CIDR) - **157.245.0.0/16** → belongs entirely to DigitalOcean.

## subdomain Enumeration

Subdomain	IP Address
api.brototype.com	<b>64.227.181.76</b>
app.brototype.com	<b>139.59.31.160</b>
brocamp.brototype.com	<b>64.227.157.184</b>
company.brototype.com	<b>139.59.92.86</b>
fa.brototype.com	<b>128.199.25.250</b>
grafana.brototype.com	<b>139.59.32.172</b>
graphql.brototype.com	<b>167.71.229.243</b>
practice.brototype.com	<b>66.241.125.19</b>
refer.brototype.com	<b>139.59.92.86</b>
reviewer.brototype.com	<b>139.59.80.145</b>
student.brototype.com	<b>139.59.92.86</b>
study.brototype.com	<b>178.16.136.145</b>
test-api.brototype.com	<b>139.59.39.101</b>
test-app.brototype.com	<b>68.183.87.198</b>
test-company.brototype.com	<b>64.227.180.182</b>
test-manifest.brototype.com	<b>64.227.180.182</b>
test-refer.brototype.com	<b>64.227.180.182</b>
test-student.brototype.com	<b>64.227.180.182</b>
test2-app.brototype.com	<b>68.183.90.136</b>
test3-app.brototype.com	<b>157.245.108.47</b>
test3-reviewer.brototype.com	<b>157.245.108.47</b>
v2-app.brototype.com	<b>139.59.80.145</b>
<u><a href="#">www.brototype.com</a></u>	<b>157.245.98.112</b>

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## open services/ports

- SSH port 22 is open (dangerous if not secured).
  - ssh: SSH-2.0-OpenSSH\_9.6p1 Ubuntu
- The website uses the **Nginx web server**(port 80,443)
  - http: nginx/1.24.0 (Ubuntu)
  - https: nginx/1.24.0 (Ubuntu)

## Technologies detected

tech: Ubuntu - Operating system

tech: Nginx:1.24.0 - Web server

tech: PHP - Programming language used

tech: LiteSpeed - Monitoring tool

tech: Zabbix - Alternative web server

protection - cloudflare

## MX Records (Email Servers)

Brototype emails are handled by Google.

## POTENTIAL VULNERABILITIES FOUND FROM THE DNSDUMPSTER DATA

### 1. SSH Port (22) Open on Almost All Servers

Example from scan:

ssh: SSH-2.0-OpenSSH\_9.x Ubuntu

#### Why this is risky:

- Attackers can attempt **brute-force attacks**

- If weak passwords exist, systems can be compromised
- SSH should ideally be restricted or accessible only via VPN

## 2. Multiple Nginx Versions Exposed

Versions seen:

- Nginx 1.18.0
- Nginx 1.24.0
- Nginx 1.26.0

**Why this is risky:**

- Attackers can search for **known vulnerabilities** in these versions
- Version disclosure helps attackers plan targeted exploits

**Fix:**

Disable version exposure in Nginx.

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## 3. Many Test Subdomains Exposed Publicly

Examples:

- test-api.brototype.com
- test-app.brototype.com
- test-company.brototype.com
- test-student.brototype.com
- test3-app.brototype.com
- test3-reviewer.brototype.com
- test2-app.brototype.com

**Why this is risky:**

- Test environments usually have **weak security**
- May contain:
  - Debug info
  - Hardcoded credentials
  - Unprotected APIs
  - Old versions of software

## **4. Exposed Monitoring Tools**

Detected:

- **Grafana**
- **Zabbix**

### **Why this is serious:**

These tools:

- Contain sensitive system data
- If misconfigured, attackers can access dashboards
- Often have known default passwords

## **5. Multiple Subdomains Using Same IP**

Example:

student.brototype.com  
company.brototype.com  
refer.brototype.com

All use the same IP: **139.59.92.86**

### **Why this is risky:**

- One subdomain vulnerability can compromise ALL sites on the server
- Attackers can pivot inside the server

## **MOST CRITICAL RISKS (Summary)**

Risk	Why Serious
SSH open everywhere	Brute-force attacks possible
Test subdomains	High chance of weak security & leaks
Monitoring tools exposed	Attackers gain system-level visibility
Old/default Nginx pages	Shows weak hardening
FTP running	Very outdated & insecure

## **Conclusion**

The target (prototype.com) has **significant exposure** due to open SSH ports, publicly available test environments, and leaked version information. While the infrastructure is modern (DigitalOcean + Cloudflare + Ubuntu), the operational security is weak.