# CVE Detail – CVE-2008-2020

The CAPTCHA implementation as used in (1) Francisco Burzi PHP-Nuke 7.0 and 8.1, (2) my123tkShop e-Commerce-Suite (aka 123tkShop) 0.9.1, (3) phpMyBitTorrent 1.2.2, (4) TorrentFlux 2.3, (5) e107 0.7.11, (6) WebZE 0.5.9, (7) Open Media Collectors Database (aka OpenDb) 1.5.0b4, and (8) Labgab 1.1 uses a code\_bg.jpg background image and the PHP ImageString function in a way that produces an insufficient number of different images, which allows remote attackers to pass the CAPTCHA test via an automated attack using a table of all possible image checksums and their corresponding digit strings.

## Threat-Mapped Scoring

Score: 1.8

Priority: P4 - Informational (Low)

## EPSS

EPSS Score: N/A

Percentile: 0.65804

## CVSS Scoring

CVSS v3.1 Score: 7.5

Severity: HIGH

## Mapped CWE(s)

* CWE-330: Use of Insufficiently Random Values

## CAPEC(s)

* CAPEC-112: Brute Force
* CAPEC-485: Signature Spoofing by Key Recreation
* CAPEC-59: Session Credential Falsification through Prediction

## ATT&CK Techniques

* T1552.004: Private Keys
* T1110: Brute Force

## Used By (Actors/Tools)

* Machete (malware)
* Mafalda (malware)
* Hildegard (malware)
* Chaos (malware)
* FoggyWeb (malware)
* Caterpillar WebShell (malware)
* Pysa (malware)
* Troll Stealer (malware)
* Ebury (malware)
* Kinsing (malware)
* QakBot (malware)
* jRAT (malware)
* AADInternals (tool)
* Empire (tool)
* PoshC2 (tool)
* Mimikatz (tool)
* CrackMapExec (tool)
* Operation Wocao (campaign)
* Dragonfly (intrusion-set)
* OilRig (intrusion-set)
* Fox Kitten (intrusion-set)
* SolarWinds Compromise (campaign)
* Turla (intrusion-set)
* Ember Bear (intrusion-set)
* TeamTNT (intrusion-set)
* APT28 (intrusion-set)
* HEXANE (intrusion-set)
* Volt Typhoon (intrusion-set)
* 2016 Ukraine Electric Power Attack (campaign)
* APT39 (intrusion-set)
* APT38 (intrusion-set)
* Operation Dream Job (campaign)
* DarkVishnya (intrusion-set)
* APT41 (intrusion-set)
* Rocke (intrusion-set)
* Scattered Spider (intrusion-set)
* Agrius (intrusion-set)
* FIN5 (intrusion-set)

## Affected Products

* cpe:2.3:a:e107:e107:0.7.11:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:a:labgab:labgab:1.1:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:a:my123tkshop:e-commerce-suite:0.9.1:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:a:opendb:opendb:1.5.0:beta4:\*:\*:\*:\*:\*:\*
* cpe:2.3:a:phpmybittorrent:phpmybittorrent:1.2.2:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:a:phpnuke:php-nuke:7.0:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:a:phpnuke:php-nuke:8.1:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:a:torrentflux\_project:torrentflux:2.3:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:a:webze:webze:0.5.9:\*:\*:\*:\*:\*:\*:\*