# CVE Detail – CVE-2016-6485

The \_\_construct function in Framework/Encryption/Crypt.php in Magento 2 uses the PHP rand function to generate a random number for the initialization vector, which makes it easier for remote attackers to defeat cryptographic protection mechanisms by guessing the value.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## EPSS

EPSS Score: N/A

Percentile: 0.14423

## CVSS Scoring

CVSS v3.0 Score: 7.5

Severity: HIGH

## Mapped CWE(s)

* CWE-327: Use of a Broken or Risky Cryptographic Algorithm

## CAPEC(s)

* CAPEC-20: Encryption Brute Forcing
* CAPEC-459: Creating a Rogue Certification Authority Certificate
* CAPEC-473: Signature Spoof
* CAPEC-475: Signature Spoofing by Improper Validation
* CAPEC-608: Cryptanalysis of Cellular Encryption
* CAPEC-614: Rooting SIM Cards
* CAPEC-97: Cryptanalysis

## ATT&CK Techniques

* T1553.002: Code Signing
* T1036.001: Invalid Code Signature

## Used By (Actors/Tools)

* TrickBot (malware)
* BLINDINGCAN (malware)
* Stuxnet (malware)
* WindTail (malware)
* StrongPity (malware)
* Janicab (malware)
* Ecipekac (malware)
* NETWIRE (malware)
* GreyEnergy (malware)
* Regin (malware)
* CHIMNEYSWEEP (malware)
* BOOSTWRITE (malware)
* SpicyOmelette (malware)
* LockerGoga (malware)
* Anchor (malware)
* Lumma Stealer (malware)
* Epic (malware)
* Gazer (malware)
* Metamorfo (malware)
* Bandook (malware)
* PipeMon (malware)
* Black Basta (malware)
* ZeroCleare (malware)
* RTM (malware)
* StrelaStealer (malware)
* GoBear (malware)
* Bazar (malware)
* HermeticWiper (malware)
* Cobalt Strike (malware)
* SUNBURST (malware)
* Daserf (malware)
* MacMa (malware)
* ROADSWEEP (malware)
* More\_eggs (malware)
* SysUpdate (malware)
* BackConfig (malware)
* Nerex (malware)
* Clop (malware)
* Troll Stealer (malware)
* Ebury (malware)
* ChChes (malware)
* AppleJeus (malware)
* BADNEWS (malware)
* QakBot (malware)
* Gelsemium (malware)
* Helminth (malware)
* HermeticWizard (malware)
* PcShare (tool)
* CSPY Downloader (tool)
* QuasarRAT (tool)
* LuminousMoth (intrusion-set)
* Wizard Spider (intrusion-set)
* FIN7 (intrusion-set)
* APT41 DUST (campaign)
* OilRig (intrusion-set)
* SolarWinds Compromise (campaign)
* Lazarus Group (intrusion-set)
* Daggerfly (intrusion-set)
* TA505 (intrusion-set)
* Suckfly (intrusion-set)
* FIN6 (intrusion-set)
* Silence (intrusion-set)
* Patchwork (intrusion-set)
* Darkhotel (intrusion-set)
* Operation Honeybee (campaign)
* Kimsuky (intrusion-set)
* Leviathan (intrusion-set)
* RedDelta Modified PlugX Infection Chain Operations (campaign)
* menuPass (intrusion-set)
* Moses Staff (intrusion-set)
* Operation Dream Job (campaign)
* Molerats (intrusion-set)
* APT37 (intrusion-set)
* APT41 (intrusion-set)
* GALLIUM (intrusion-set)
* C0015 (campaign)
* Winnti Group (intrusion-set)
* Saint Bear (intrusion-set)
* Scattered Spider (intrusion-set)
* Windshift (intrusion-set)
* CopyKittens (intrusion-set)
* PROMETHIUM (intrusion-set)

## Affected Products

* cpe:2.3:a:magento:magento2:-:\*:\*:\*:\*:\*:\*:\*