

Web Application Pentesting



Vivek Ramachandran

SWSE, SMFE, SPSE, SISE, SLAE, SGDE Course Instructor

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Open Redirects: Beating Hashing

Hash Check

- Application creates hash of the URL
- Redirect URL contains both URL and Hash
- Hash is checked on the server side before redirecting

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Dumping Passwords from Browser Memory

- Identify strings or data structures around the "secret information"
- Verify multiple times by varying conditions
 - Different versions of the Browser
 - Different OS
 - Different versions of the OS
 - Across Reboots (might not matter too much)
- Create search strings or regex for the pattern you identify
- Welcome to the world on Memory Analysis!
 - Volatility
 - Minikatz etc.

Memory Dumping and Analysis

- Memory Dumping
 - Per Process
 - Full System
- Why Memory Dumping?
 - Trajectory trace of information!
 - Passwords, Keys, Secrets, etc.
 - No need to run multiple commands!
 - Limit running privileges commands on the system
- Requires Admin Privileges for system wide dumping

Post/windows/gather/enum_prefetch

```
enum_prefetch() {
  local host=${1:-localhost}
  local url=${2:-http://$host}
  local user=${3:-root}
  local pass=${4:-root}
  local url=${5:-http://$host}
  local user=${6:-root}
  local pass=${7:-root}
  local url=${8:-http://$host}
  local user=${9:-root}
  local pass=${10:-root}
}
```

Prefetch Settings

Configuration: `enum_prefetch`

- Application prefetching enabled
- System prefetching enabled (default on Windows 2003 only)
- Application and boot prefetching enabled (default)

The recommended value is 20. Values higher than 20 will decrease performance, and changing the value to 2 will not make Windows boot faster.

<http://en.wikipedia.org/wiki/Prefetcher>