

SysWhispers4 SSN

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Method	Configuration	Hook	SSN
static	j00ru	✗	SSN
freshycalls	VA ntdll → SSN	✓	hook
hells_gate	ntdll stub SSN	✗ hook	hook
halos_gate	Hell's Gate +	⚠	hook
tartarus	Halo's Gate + E9/FF25	✓	Hell's Gate
from_disk	ntdll	✓✓	SSN
recycled	FreshyCalls +	✓✓✓	
hw_breakpoint	VEH SSN	✓	

OS	Kernel	ASLR	Stack Canary
embedded	stub <code>syscall</code>	✗	RIP <code>XXXXXXXXXXXXXXXX</code>
indirect	<code>ntdll</code> <code>syscall;ret</code> gadget	✓	RIP <code>ntdll</code> <code>XXXX</code>
randomized	<code>XXXXXXXXXX</code> gadget	✓✓	<code>XX</code> RIP <code>XXXX</code>
egg	<code>XXXXXXXX</code> 8 <code>egg</code> <code>XXXX</code> <code>syscall;ret</code>	✓✓	<code>XXXXXXXXXX</code> <code>syscall</code> <code>XX</code>

Option	Value	Result
--obfuscate	stub +	✓
--encrypt-ssn	XOR SSN	! static SSN
--stack-spoof		! indirect/randomized embedded/egg
--etw-bypass	EtwEventWrite	✓

