

Living off the Land - Threat Group Cards: A Threat Actor Encyclopedia

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Tool: Living off the Land

Names	Living off the Land LOLBins LOLBAS
Category	Tools
Description	<p>(Talos) Attackers' trends tend to come and go. But one popular technique we're seeing at this time is the use of living-off-the-land binaries — or 'LoLBins'. LoLBins are used by different actors combined with fileless malware and legitimate cloud services to improve chances of staying undetected within an organisation, usually during post-exploitation attack phases.</p> <p>Living-off-the-land tactics mean that attackers are using pre-installed tools to carry out their work. This makes it more difficult for defenders to detect attacks and researchers to identify the attackers behind the campaign. In the attacks we're seeing, there are binaries supplied by the victim's operating system that are normally used for legitimate purposes, but in these cases, are being abused by the attackers.</p> <p>(LOLBAS Project) The goal of the LOLBAS project is to document every binary, script, and library that can be used for Living Off The Land techniques.</p> <p>A LOLBin/Lib/Script must:</p> <ul style="list-style-type: none">• Be a Microsoft-signed file, either native to the OS or downloaded from Microsoft.• Have extra 'unexpected' functionality. It is not interesting to document intended use cases.<ul style="list-style-type: none">o Exceptions are application whitelisting bypasses• Have functionality that would be useful to an APT or red team <p>Interesting functionality can include:</p> <ul style="list-style-type: none">• Executing code<ul style="list-style-type: none">o Arbitrary code executiono Pass-through execution of other programs (unsigned) or scripts (via a LOLBin)

	<ul style="list-style-type: none"> • Compiling code • File operations <ul style="list-style-type: none"> o Downloading o Upload o Copy • Persistence <ul style="list-style-type: none"> o Pass-through persistence utilizing existing LOLBin o Persistence (e.g. hide data in ADS, execute at logon) • UAC bypass • Credential theft • Dumping process memory • Surveillance (e.g. keylogger, network trace) • Log evasion/modification • DLL side-loading/hijacking without being relocated elsewhere in the filesystem.
Information	<p><https://github.com/LOLBAS-Project/LOLBAS></p> <p><https://lolbas-project.github.io/></p> <p><https://blog.talosintelligence.com/2019/11/hunting-for-lolbins.html></p> <p><https://www.microsoft.com/security/blog/2021/03/09/azure-lolbins-protecting-against-the-dual-use-of-virtual-machine-extensions/></p> <p><https://www.darkreading.com/edge-articles/is-an-attacker-living-off-your-land-></p> <p><https://www.cybereason.com/blog/threat-hunting-from-lolbins-to-your-crown-jewels></p> <p><https://pentera.io/blog/the-lol-isnt-so-funny-when-it-bites-you-in-the-bas/></p> <p><https://www.darkreading.com/vulnerabilities-threats/as-lotl-attacks-evolve-so-must-defenses></p> <p><https://blog.barracuda.com/2025/03/03/living-off-the-land--how-threat-actors-use-your-system-to-steal-></p> <p><https://www.helpnetsecurity.com/2025/07/01/bitdefender-lotl-security-incidents-phasr/></p>
AlienVault OTX	< https://otx.alienvault.com/browse/pulses?q=tag:lolbin >



Last change to this tool card: 16 August 2025

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All groups using tool Living off the Land

Changed	Name	Country	Observed
APT groups			
	↳ Subgroup: Scattered Spider	[Unknown]	2022-Aug 2025 

Antlion		2011	
APT 20, Violin Panda		2014-2017	
APT 29, Cozy Bear, The Dukes		2008-Feb 2025	●
APT 33, Elfin, Magnallium		2013-Apr 2024	
APT 41		2012-Jul 2025	●
↳ Subgroup: Earth Freybug		2012	
AVIVORE		2015	
Berserk Bear, Dragonfly 2.0		2015-May 2017	
BlackTech, Circuit Panda, Radio Panda		2010-Oct 2020	
Bronze Highland		2012-Jul 2024	
Cadet Blizzard		2020-Jun 2024	●
Calypso		2016-Aug 2021	
Chafer, APT 39		2014-Sep 2020	●
Comment Crew, APT 1		2006-May 2018	●
Dark Pink	[Unknown]	2022-Feb 2023	
El Machete	[Unknown]	2010-Mar 2022	
Emissary Panda, APT 27, LuckyMouse, Bronze Union		2010-Aug 2023	
FING, Skeleton Spider	[Unknown]	2015-Oct 2021	●
Flax Typhoon		2021-Nov 2023	
FunnyDream		2018	
Gallmaker	[Unknown]	2017	
Gangnam Industrial Style	[Unknown]	2019	
Goblin Panda, Cycldek, Conimes		2013-Jun 2020	

Gorgon Group		2017-Jul 2020	
Honeybee	[Unknown]	2017	
Hydrochasma	[Unknown]	2022	
Ke3chang, Vixen Panda, APT 15, GREF, Playful Dragon		2010-Oct 2024	
Kimsuky, Velvet Chollima		2012-Aug 2025	●
Lazarus Group, Hidden Cobra, Labyrinth Chollima		2007-May 2025	●
Leviathan, APT 40, TEMP.Periscope		2013-Jul 2021	●
LightBasin		2016	
Lotus Blossom, Spring Dragon, Thrip		2012-Aug 2024	
↳ Subgroup: DEV-0270, Nemesis Kitten		2022-Nov 2023	
MuddyWater, Seedworm, TEMP.Zagros, Static Kitten		2017-Jul 2025	●
Naikon, Lotus Panda		2010-Apr 2022	
OilRig, APT 34, Helix Kitten, Chrysene		2014-Sep 2024	●
OPERA1ER	[Unknown]	2016-Jul 2023	●
Operation Digital Eye		2024	
Operation Silent Skimmer	[Unknown]	2022	
Orangeworm	[Unknown]	2015-Jan 2020	
Platinum		2009-Nov 2019	
Sandworm Team, Iron Viking, Voodoo Bear		2009-Dec 2024	●
Silence, Contract Crew	[Unknown]	2016-Aug 2022	
Sofacy, APT 28, Fancy Bear, Sednit		2004-Apr 2025	●
Stone Panda, APT 10, menuPass		2006-Mar 2025	●
TA505, Graceful Spider, Gold Evergreen		2006-Nov 2022	●

	TeleBots		2015-Oct 2020	●
	Temper Panda, admin@338		2014	
	Tonto Team, HartBeat, Karma Panda		2009-Apr 2023	
	Turbine Panda, APT 26, Shell Crew, WebMasters, KungFu Kittens		2010-Oct 2018	●
	Turla, Waterbug, Venomous Bear		1996-2024	
	Volt Typhoon		2020-Aug 2025	●
	Whitefly, Mofang	[Unknown]	2012-Jul 2018	
	WIRTE Group	[Middle East]	2018-Feb 2024	
Other groups				
	CoralRaider		2023-Feb 2024	
	Karakurt	[Unknown]	2021-Sep 2022	
	TA554	[Unknown]	2017	

58 groups listed (55 APT, 3 other, 0 unknown)

Source: https://apt.etda.or.th/cgi-bin/listgroups.cgi?u=d54e09cf-97b7-40a4-b30e-4c0a2bf0ea40