

LOGIN BRUTE FORCING CHEAT SHEET

Login Brute Forcing Cheat Sheet

What is Brute Forcing?

A trial-and-error method used to crack passwords, login credentials, or encryption keys by systematically trying every possible combination of characters.

Factors Influencing Brute Force Attacks

- Complexity of the password or key
- Computational power available to the attacker
- Security measures in place

How Brute Forcing Works

- 1. Start: The attacker initiates the brute force process.
- 2. Generate Possible Combination: The software generates a potential password or key combination.
- 3. Apply Combination: The generated combination is attempted against the target system.
- 4. Check if Successful: The system evaluates the attempted combination.
- 5. Access Granted (if successful): The attacker gains unauthorized access.
- 6. End (if unsuccessful): The process repeats until the correct combination is found or the attacker gives up.

Types of Brute Forcing

Attack Type	Description	Best Used When
Simple Brute Force	Tries every possible character combination in a set (e.g., lowercase, uppercase, numbers, symbols).	When there is no prior information about the password.

• Default Passwords: Pre-set, easily guessable passwords that come with devices and software

Device	Username	Password
Linksys Router	admin	admin
Netgear Router	admin	password
TP-Link Router	admin	admin
Cisco Router	cisco	cisco

Device	Username	Password
Ubiquiti UniFi AP	ubnt	ubnt

Brute-Forcing Tools

Hydra

- Fast network login crackerSupports numerous protocolsUses parallel connections for speed
- Flexible and adaptable
- Relatively easy to use

hydra [-l LOGIN|-L FILE] [-p PASS|-P FILE] [-C FILE] -m MODULE [service://server[:PORT][/OPT]]

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Hydra Service	Service/Protocol	Description	Example Command
ftp	File Transfer Protocol (FTP)	Used to brute-force login credentials for FTP services, commonly used to transfer files over a network.	<pre>hydra -l admin -P /path/to/password_list.txt ftp://192.168.1.100</pre>
ssh	Secure Shell (SSH)	Targets SSH services to brute-force credentials, commonly used for secure remote login to systems.	<pre>hydra -l root -P /path/to/password_list.txt ssh://192.168.1.100</pre>

Hydra Service	Service/Protocol	Description	Example Command
http- get/post	HTTP Web Services	Used to brute-force login credentials for HTTP web login forms using either GET or POST requests.	<pre>hydra -l admin -P /path/to/password_list.txt 127.0.0.1 http-post-form "/login.php:user=^USER^&pass=^PASS^:F=incorrect"</pre>

Medusa

- Fast, massively parallel, modular login brute-forcerSupports a wide array of services

medusa [-h host|-H file] [-u username|-U file] [-p password|-P file] [-C file] -M module [OPT]

Medusa Module	Service/Protocol	Description	Example Command
ssh	Secure Shell (SSH)	Brute force SSH login for the admin user.	medusa -h 192.168.1.100 -u admin -P passwords.txt -M ssh
ftp	File Transfer Protocol (FTP)	Brute force FTP with multiple usernames and passwords using 5 parallel threads.	medusa -h 192.168.1.100 -U users.txt -P passwords.txt -M ftp -t 5
rdp	Remote Desktop Protocol (RDP)	Brute force RDP login.	medusa -h 192.168.1.100 -u admin -P passwords.txt -M rdp
http-get	HTTP Web Services	Brute force HTTP Basic Authentication.	medusa -h www.example.com - U users.txt -P passwords.txt -M http -m GET
ssh	Secure Shell (SSH)	Stop after the first valid SSH login is found.	medusa -h 192.168.1.100 -u admin -P passwords.txt -M ssh -f

Custom Wordlists

Username Anarchy generates potential usernames based on a target's name.

CUPP (Common User Passwords Profiler) creates personalized password wordlists based on gathered intelligence.

Command	Description
cupp -i	Generate wordlist based on personal information (interactive mode).
cupp -w profiles.txt	Generate a wordlist from a predefined profile file.
cupp -l	Download popular password lists like rockyou.txt.

Password Policy Filtering

Password policies often dictate specific requirements for password strength, such as minimum length, inclusion of certain character types, or exclusion of common patterns. **grep** combined with regular expressions can be a powerful tool for filtering wordlists to identify passwords that adhere to a given policy. Below is a table summarizing common password policy requirements and the corresponding **grep** regex patterns to apply: