

Recon Ng Cheat Sheet

Recon-ng Cheat Sheet: Your Ultimate Guide to Efficient Reconnaissance

In the world of cybersecurity and ethical hacking, reconnaissance is the first and one of the most crucial phases in gathering information about a target. Recon-ng is a powerful open-source web reconnaissance framework that simplifies and automates much of this process. If you are diving into penetration testing or bug bounty hunting, having a comprehensive Recon-ng cheat sheet can significantly speed up your workflow and enhance your efficiency.

What is Recon-ng?

Recon-ng is a full-featured web reconnaissance framework written in Python. It provides a modular environment to conduct open-source web-based reconnaissance quickly and thoroughly. With its intuitive command-line interface and numerous modules, Recon-ng enables security professionals to gather intelligence, automate tasks, and integrate with various APIs seamlessly.

Why Use Recon-ng?

1. **Modular Design:** Easily load and unload modules tailored for specific tasks.
2. **Automation:** Automate repetitive reconnaissance tasks to save time.
3. **Integration:** Supports integration with APIs like Shodan, VirusTotal, and more.
4. **Data Management:** Stores gathered data in a structured database for easy access and reporting.

Recon-ng Basic Commands Cheat Sheet

Understanding the core commands is essential to effectively use Recon-ng. Here's a quick cheat sheet covering the fundamental commands:

1. `help` "Lists all available commands and modules."
2. `show modules` "Displays all reconnaissance modules you can use."
3. `use [module_name]` "Loads a specific module."
4. `show options` "Displays options for the selected module."
5. `set [option] [value]` "Sets a module option such as target domain."
6. `run` "Executes the loaded module."
7. `back` "Unloads the current module."
8. `show commands` "Shows all commands available in the current context."
9. `exit` "Exits the framework."

Common Recon-ng Modules to Know

Recon-ng comes packed with hundreds of modules. Here are a few essential ones that every beginner and intermediate user should familiarize themselves with:

Domain Information Modules

1. recon/domains-hosts/google_site_web â€” Gathers hosts from Google site search.
2. recon/domains-hosts/bing_domain_web â€” Fetches domain hosts using Bing search.
3. recon/domains-hosts/shodan_host â€” Retrieves host information from Shodan.

Whois Modules

1. recon/contacts-whois/whois_pocs â€” Collects points of contact from Whois data.
2. recon/domains-whois/whois â€” Retrieves Whois information about domains.

Vulnerability Modules

1. vuln/cve_2017_5638 â€” Checks for specific CVEs like Apache Struts vulnerability.
2. vuln/cve_2014_0160 â€” Tests for Heartbleed vulnerability.

Step-by-Step Recon-ng Workflow

To maximize the potential of Recon-ng, follow this typical workflow:

1. Initialize and Setup Workspace

Start Recon-ng and create a workspace to organize your data:

```
workspaces create target_name
```

2. Add Target Domain

Set your target domain for the modules to use:

```
set domain example.com
```

3. Select and Configure Modules

Choose modules based on your reconnaissance goals and configure their options:

```
use recon/domains-hosts/google_site_web
show options
set source example.com
```

4. Run Modules

Execute the modules to gather information:

```
run
```

5. Analyze and Export Data

Review collected data, and export reports as needed using commands like:

```
show hosts
```

```
export csv /path/to/output.csv
```

Tips for Effective Use of Recon-ng

1. **Update Regularly:** Recon-ng is continuously updated; keep your installation current for the latest modules and features.
2. **API Keys:** Many modules require API keys (e.g., Shodan, VirusTotal). Obtain and configure these keys in the keys interface.
3. **Combine Modules:** Chain multiple modules for comprehensive reconnaissance.
4. **Use Workspaces:** Organize your engagement data with workspaces to keep targets separate.

Additional Resources and Help

Use the help command inside Recon-ng to explore commands or visit the official [Recon-ng GitHub repository](#) for documentation and community support.

Conclusion

Recon-ng is a versatile and powerful tool that can streamline and enhance your reconnaissance efforts. By mastering its commands, modules, and workflows, you can gather valuable intelligence efficiently and effectively. This Recon-ng cheat sheet serves as a handy reference to get you started and keep you productive in your security assessments.

Recon-ng Cheat Sheet: The Ultimate Guide for Information Gathering

In the realm of cybersecurity, information gathering is a crucial first step in any penetration test or security assessment. Recon-ng, a powerful web reconnaissance framework, is a go-to tool for many security professionals. This Recon-ng cheat sheet will guide you through the essential commands and functionalities of this versatile tool, helping you streamline your reconnaissance process.

Getting Started with Recon-ng

Recon-ng is a must-have tool in any security professional's arsenal. It is designed to automate the process of gathering information about a target, making it an invaluable asset for both offensive and defensive security tasks. Whether you are a seasoned penetration tester or just starting out, this cheat sheet will provide you with the necessary commands to effectively use Recon-ng.

Basic Commands

To get started with Recon-ng, you need to understand the basic commands that will help you navigate and utilize the tool effectively.

1. Starting Recon-ng:

To launch Recon-ng, simply type `recon-ng` in your terminal. This will start the Recon-ng framework and present you with the command prompt.

2. Listing Modules:

To list all available modules, use the command `show modules`. This will display a list of modules categorized by their functionality.

3. Loading a Module:

To load a specific module, use the command `use module_name`. Replace `module_name` with the name of the module you wish to use.

4. Setting Options:

Once a module is loaded, you can set the required options using the `set` command. For example, `set source example.com` sets the source domain for the module.

5. Running a Module:

To execute the loaded module, use the command `run`. This will start the information gathering process based on the options you have set.

Advanced Commands

For more advanced users, Recon-ng offers a range of commands that can enhance your reconnaissance capabilities.

1. Workspaces:

Workspaces allow you to manage different projects and targets efficiently. To create a new workspace, use the command `workspace create workspace_name`. To switch between workspaces, use `workspace workspace_name`.

2. Marketplace:

The marketplace in Recon-ng allows you to install additional modules and scripts. To list available modules, use `marketplace search`. To install a module, use `marketplace install`.

module_name.

3. Database Interaction:

Recon-ng uses a database to store gathered information. To view the contents of the database, use the command `db connect`. To query the database, use `db query` followed by your SQL query.

Common Modules

Recon-ng comes with a variety of modules that cater to different aspects of information gathering. Here are some commonly used modules:

1. Recon/Domain-Profiles/LinkedIn:

This module gathers information about a domain's LinkedIn profiles. It can be useful for identifying key personnel and their roles within the organization.

2. Recon/Domain-Hosts/Google Site Search:

This module uses Google's site search to find hosts associated with a domain. It is a quick way to discover subdomains and other related hosts.

3. Recon/Domain-Contacts/WHOIS:

This module retrieves WHOIS information for a domain, providing details about the domain's registration, including contact information and registration dates.

4. Recon/Domain-Domain/Subdomains:

This module enumerates subdomains for a given domain. It uses various techniques to discover subdomains that may not be publicly listed.

5. Recon/Hosts-Hosts/Google:

This module searches Google for hosts associated with a given domain. It can be useful for discovering additional hosts that may not be directly linked to the domain.

Conclusion

Recon-ng is a powerful tool that can significantly enhance your information gathering capabilities. By mastering the commands and modules outlined in this cheat sheet, you can streamline your reconnaissance process and gather valuable intelligence efficiently. Whether you are conducting a penetration test or a security assessment, Recon-ng is an indispensable tool that should be in every security professional's toolkit.

Recon-ng Cheat Sheet: An Analytical Overview of a Reconnaissance Powerhouse

Recon-ng is increasingly recognized as a crucial tool in the arsenal of cybersecurity

professionals focused on open-source intelligence gathering (OSINT). This analytical article delves into the capabilities, architecture, and practical use of Recon-ng, supported by a detailed cheat sheet to facilitate understanding and application.

The Architecture and Design Philosophy of Recon-ng

Modular Framework

At its core, Recon-ng is designed as a modular framework, allowing users to load discrete modules dedicated to specific reconnaissance tasks. This architecture fosters scalability and flexibility, enabling users to tailor their workflows based on the target and objectives.

Database-Driven Data Management

Recon-ng employs a robust SQLite database backend to systematically record and manage gathered intelligence. This structured approach enhances data accessibility and continuity, critical for multi-stage penetration tests.

Recon-ng in the Context of Modern OSINT Tools

Within the broader ecosystem of OSINT tools, Recon-ng distinguishes itself through automation, extensibility, and integration capabilities. Unlike traditional manual reconnaissance techniques, Recon-ng streamlines data collection via pre-built modules interfacing with APIs such as Shodan, VirusTotal, and Whois services.

Comparative Advantages

1. **Automation:** Reduces human error and expedites information gathering.
2. **Extensibility:** Users can develop custom modules to augment framework capabilities.
3. **Community Support:** An active open-source community contributes to module development and framework improvements.

Detailed Cheat Sheet for Recon-ng Usage

Initialization and Workspace Management

Upon launching, users can create and switch between workspaces, isolating data per engagement. Commands such as `workspaces create` and `workspaces select` are fundamental for organized operations.

Module Operations

Understanding module lifecycle commands is pivotal:

1. `show modules`: Lists all available modules categorized by functionality.
2. `use [module_name]`: Loads a specific module into the environment.

3. `show options`: Displays configurable parameters for the active module.
4. `set [option] [value]`: Assigns values such as target domains or API keys.
5. `run`: Executes the module's reconnaissance function.

Data Handling and Export

Recon-ng allows users to query collected data with commands like `show hosts` or `show contacts`. Export functionalities enable output in various formats including CSV and JSON, facilitating reporting and further analysis.

Analytical Insights on Recon-ng Modules

Domain and Host Reconnaissance

Modules designed for domain enumeration leverage search engines and internet-wide scanners. For example, `recon/domains-hosts/google_site_web` exploits Google site search to enumerate subdomains, while `recon/domains-hosts/shodan_host` taps into Shodan's database for exposed hosts.

Whois and Contact Information Retrieval

The Whois modules are integral for mapping ownership and administrative details. These modules systematically extract registrant data, which can be corroborated with other intelligence sources.

Vulnerability Identification Modules

Although Recon-ng primarily focuses on reconnaissance, certain modules assist in preliminary vulnerability assessments by checking for known CVEs against gathered hosts.

Challenges and Considerations

Despite its strengths, Recon-ng has limitations. The quality of intelligence is inherently tied to the availability and accuracy of external data sources. Additionally, legal and ethical considerations must guide the use of Recon-ng, ensuring compliance with laws and engagement scopes.

Future Prospects and Development

Ongoing development efforts aim to enhance Recon-ng's module library, improve API integrations, and incorporate machine learning for smarter data correlation. These advancements promise to maintain its relevance in the evolving cybersecurity landscape.

Conclusion

Recon-ng stands out as a sophisticated, extensible, and user-friendly framework for web reconnaissance. Its modular design, combined with automation and data management capabilities, makes it indispensable for penetration testers and OSINT practitioners. This cheat sheet encapsulates the essential commands and modules, enabling users to leverage Recon-ng effectively for comprehensive intelligence gathering.

The Anatomy of Recon-ng: An In-Depth Analysis

In the ever-evolving landscape of cybersecurity, information gathering remains a critical phase in any security assessment or penetration test. Recon-ng, a robust web reconnaissance framework, has emerged as a preferred tool for many security professionals. This article delves into the intricacies of Recon-ng, providing an analytical perspective on its functionality, modules, and practical applications.

The Evolution of Recon-ng

Recon-ng was developed as a response to the need for a more comprehensive and automated approach to web reconnaissance. Inspired by the Metasploit Framework, Recon-ng was designed to streamline the process of gathering information about a target, making it an invaluable asset for both offensive and defensive security tasks. Over the years, Recon-ng has evolved to include a wide range of modules and functionalities, catering to the diverse needs of security professionals.

Core Functionality

The core functionality of Recon-ng revolves around its modular architecture. This design allows users to easily extend and customize the tool to suit their specific needs. The modular approach also ensures that Recon-ng remains flexible and adaptable to the changing landscape of cybersecurity.

1. Modular Architecture:

The modular architecture of Recon-ng is one of its key strengths. Each module is designed to perform a specific task, such as gathering information about a domain, enumerating subdomains, or retrieving WHOIS information. This modular approach allows users to mix and match modules to create a customized reconnaissance process tailored to their specific needs.

2. Database Integration:

Recon-ng uses a database to store gathered information, allowing users to easily manage and query the data. This integration ensures that the information gathered during the reconnaissance process is easily accessible and can be used to inform subsequent stages of the security assessment.

3. Automation:

One of the key advantages of Recon-ng is its ability to automate the information gathering process. By automating repetitive tasks, Recon-ng allows security professionals to focus on the more complex aspects of their assessment, ultimately increasing efficiency and effectiveness.

Advanced Features

In addition to its core functionality, Recon-ng offers a range of advanced features that enhance its capabilities and versatility.

1. Marketplace:

The marketplace in Recon-ng allows users to install additional modules and scripts, further extending the tool's functionality. This feature ensures that Recon-ng remains up-to-date with the latest techniques and methodologies in web reconnaissance.

2. Workspaces:

Workspaces allow users to manage different projects and targets efficiently. By creating separate workspaces for each project, users can easily organize and track their reconnaissance efforts, ensuring that information is accurately attributed to the correct target.

3. API Integration:

Recon-ng supports API integration, allowing users to leverage external APIs to gather additional information. This feature enhances the tool's capabilities and ensures that users have access to the most comprehensive and up-to-date information available.

Practical Applications

Recon-ng is a versatile tool that can be used in a variety of contexts, from penetration testing to security assessments. Its modular architecture and advanced features make it an invaluable asset for security professionals tasked with gathering information about a target.

1. Penetration Testing:

In the context of penetration testing, Recon-ng can be used to gather information about a target's infrastructure, including domains, subdomains, and hosts. This information can be used to identify potential vulnerabilities and inform the subsequent stages of the penetration test.

2. Security Assessments:

Recon-ng can also be used in security assessments to gather information about a target's security posture. By identifying potential vulnerabilities and areas of concern, Recon-ng can help security professionals develop targeted recommendations for improving the target's security.

3. Threat Intelligence:

Recon-ng can be used to gather threat intelligence, providing valuable insights into the tactics, techniques, and procedures (TTPs) of potential adversaries. This information can be used to inform defensive strategies and enhance the target's overall security posture.

Conclusion

Recon-ng is a powerful and versatile tool that has become an essential part of the cybersecurity professional's toolkit. Its modular architecture, advanced features, and practical applications make it an invaluable asset for information gathering and security assessments. By mastering Recon-ng, security professionals can enhance their capabilities and better protect their organizations from potential threats.

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Portability is one of the most visible advantages. Carrying physical books has practical limits, but digital libraries do not. A single device can store an entire collection without added weight or space. This makes it easier for readers to switch between topics, revisit previous materials, or explore new interests without hesitation.

Digital reading is not just about convenience; it also reshapes how people interact with content. PDF and eBook formats preserve structure, layout, and visual elements, which is especially important for educational or reference materials. Tables, diagrams, and highlighted sections appear exactly as intended, supporting clarity and accuracy.

At the same time, digital tools add a new layer of engagement. Readers can highlight meaningful passages, write personal notes, bookmark important sections, and search for specific terms instantly. These features turn Recon Ng Cheat Sheet into an interactive workspace rather than a static document. Learning becomes active, reflective, and deeply personal.

Search functionality deserves special attention. When working with longer texts, the ability to locate information quickly can transform the reading experience. Instead of scanning page after page, readers can focus on understanding and analysis. This efficiency benefits students, researchers, and professionals who rely on precise information.

Cost is another factor that cannot be ignored. Digital access significantly reduces financial barriers to learning. Many downloadable books are available for free or at minimal cost, allowing readers to explore topics without hesitation. Access to Recon Ng Cheat Sheet no longer depends on budget, making knowledge more inclusive and widely available.

Of course, responsible access matters. Reputable platforms such as Project Gutenberg, Open Library, Internet Archive, and Free-Ebooks.net provide legal and ethical ways to download books. Academic platforms like Academia.edu offer scholarly resources that complement digital libraries. Choosing trusted sources protects both users and creators.

Ethical downloading supports the long-term sustainability of shared knowledge. It respects intellectual property while ensuring that content remains available for future readers. It also reduces exposure to cybersecurity risks often associated with unverified websites. When downloading Recon Ng Cheat Sheet from reliable platforms, readers gain confidence in both quality and safety.

Digital access also reflects a broader cultural shift toward lifelong learning. Education is no longer confined to formal classrooms or specific life stages. People learn continuously—out of curiosity, necessity, or personal interest. Having Recon Ng Cheat Sheet readily available supports this ongoing process, making learning feel natural rather than obligatory.

Self-directed learning thrives in this environment. Readers choose their pace, their focus, and their depth of engagement. Some may read cover to cover, while others return to specific sections as needed. This flexibility respects individual learning styles and encourages sustained interest over time.

Critical thinking also benefits from digital accessibility. When multiple resources are easily available, readers can compare ideas, question assumptions, and develop informed perspectives. Engaging with Recon Ng Cheat Sheet alongside other materials fosters analytical skills and deeper understanding, which are essential in both academic and professional contexts.

Digital formats encourage exploration across disciplines. A reader interested in one topic can quickly branch into related areas, discovering connections that might otherwise remain hidden. This freedom supports creativity and innovation, as ideas often emerge at the intersection of different fields.

For students, downloadable books provide practical advantages. Offline access ensures uninterrupted study, while annotation tools simplify note-taking and revision. Digital

organization makes it easier to manage multiple subjects and materials, reducing stress and improving focus.

Educators also benefit from digital availability. Sharing resources becomes simpler, and materials can be updated or supplemented without logistical challenges. Access to Recon Ng Cheat Sheet allows instructors to adapt content to different learning environments, including remote and hybrid settings.

Accessibility is another important consideration. Digital readers often include features such as adjustable text size, night mode, and text-to-speech options. These tools help accommodate diverse learning needs, ensuring that Recon Ng Cheat Sheet remains accessible to a broader audience.

Environmental impact adds another dimension to digital learning. While technology is not without cost, distributing content digitally often requires fewer physical resources than printing and shipping books. Over time, this approach contributes to more sustainable knowledge sharing.

Organization also improves with digital libraries. Files can be categorized, backed up, and retrieved instantly. Readers can build personal collections that grow without clutter, making it easier to revisit Recon Ng Cheat Sheet whenever needed.

Perhaps most importantly, digital access changes how people feel about learning. When information is easy to reach, curiosity feels welcome rather than inconvenient. Readers are more likely to explore new ideas, return to old interests, and continue learning simply because the barriers are low.

In the end, downloading Recon Ng Cheat Sheet represents more than a technological convenience. It reflects a shift toward accessible, flexible, and thoughtful learning. When used responsibly through trusted platforms, digital books become reliable companions—supporting curiosity, critical thinking, and continuous personal growth in a world that never stops changing.

Questions & Answers About recon ng cheat sheet

No	Question	Answer
1	What is Recon-ng and why is it important in cybersecurity?	Recon-ng is an open-source web reconnaissance framework that automates information gathering during the reconnaissance phase of penetration testing. It's important because it streamlines data collection, saving time and improving accuracy for security professionals.

2	Which basic commands should I know to get started with Recon-ng?	Key commands include 'show modules' to list modules, 'use [module_name]' to select a module, 'show options' to see module settings, 'set [option] [value]' to configure modules, and 'run' to execute them.
3	How does Recon-ng manage and store the data it collects?	Recon-ng uses a SQLite database to store gathered intelligence in a structured format, allowing easy querying, management, and export of data.
4	Can I add custom modules to Recon-ng?	Yes, Recon-ng is designed with extensibility in mind. Users can develop and integrate custom modules to suit specific reconnaissance needs.
5	What are some popular Recon-ng modules for domain reconnaissance?	Popular modules include 'recon/domains-hosts/google_site_web', 'recon/domains-hosts/bing_domain_web', and 'recon/domains-hosts/shodan_host' for collecting domain and host information.
6	Do I need API keys to use all Recon-ng modules?	Not all modules require API keys, but many do—for example, modules that interface with Shodan or VirusTotal need valid API keys to function properly.
7	Is Recon-ng suitable for beginners in penetration testing?	Yes, Recon-ng's modular and user-friendly interface makes it accessible for beginners, especially when using a cheat sheet to understand commands and modules.
8	What is Recon-ng and why is it important in cybersecurity?	Recon-ng is a web reconnaissance framework designed to automate the process of gathering information about a target. It is important in cybersecurity because it streamlines the information gathering phase, allowing security professionals to focus on identifying potential vulnerabilities and developing targeted recommendations for improving security.
9	How do I start using Recon-ng?	To start using Recon-ng, simply type recon-ng in your terminal. This will launch the Recon-ng framework and present you with the command prompt, where you can begin using the various commands and modules.
10	What are some common modules in Recon-ng?	Some common modules in Recon-ng include Recon/Domain-Profiles/LinkedIn, Recon/Domain-Hosts/Google Site Search, Recon/Domain-Contacts/WHOIS, Recon/Domain-Domain/Subdomains, and Recon/Hosts-Hosts/Google. These modules cater to different aspects of information gathering, such as identifying key personnel, discovering subdomains, and retrieving WHOIS information.
11	How can I manage different projects in Recon-ng?	You can manage different projects in Recon-ng using workspaces. To create a new workspace, use the command workspace create workspace_name. To switch between workspaces, use workspace workspace_name. This allows you to organize and track your reconnaissance efforts efficiently.

12	What is the marketplace in Recon-ng?	The marketplace in Recon-ng allows you to install additional modules and scripts, further extending the tool's functionality. To list available modules, use <code>marketplace search</code> . To install a module, use <code>marketplace install module_name</code> .
13	How does Recon-ng use a database?	Recon-ng uses a database to store gathered information, allowing you to easily manage and query the data. To view the contents of the database, use the command <code>db connect</code> . To query the database, use <code>db query</code> followed by your SQL query.
14	Can Recon-ng be used for threat intelligence?	Yes, Recon-ng can be used to gather threat intelligence, providing valuable insights into the tactics, techniques, and procedures (TTPs) of potential adversaries. This information can be used to inform defensive strategies and enhance the target's overall security posture.
15	What are the advanced features of Recon-ng?	Advanced features of Recon-ng include the marketplace for installing additional modules, workspaces for managing different projects, and API integration for leveraging external APIs to gather additional information. These features enhance the tool's capabilities and versatility.
16	How does Recon-ng support automation?	Recon-ng supports automation by allowing users to create scripts and workflows that automate repetitive tasks. This feature increases efficiency and effectiveness, allowing security professionals to focus on the more complex aspects of their assessment.
17	What are the practical applications of Recon-ng?	Practical applications of Recon-ng include penetration testing, security assessments, and threat intelligence. Its modular architecture and advanced features make it an invaluable asset for information gathering and security assessments in various contexts.

automated reconnaissance, cyber security reconnaissance, cybersecurity tools, information gathering, open source reconnaissance, penetration testing, reconnaissance tools, recon-ng commands, recon-ng framework, recon-ng guide, recon-ng modules, recon-ng tips, Recon-ng tutorial, recon-ng usage, security assessments, subdomain enumeration, threat intelligence, web reconnaissance

Recon Ng Cheat Sheet eBook

Resource

Recon Ng Cheat Sheet eBooks provide structured digital knowledge.

Core Discussion

Digital books help readers maintain productivity.

Practical Use

Recon Ng Cheat Sheet eBooks support consistent study routines.

Conclusion

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Recon Ng Cheat Sheet eBooks support diverse learning styles by combining structured text with optional multimedia references.

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Modern learners increasingly value flexibility, immediacy, and control over how they access educational materials.

Recon Ng Cheat Sheet eBooks are suitable for learners at different experience levels.

Searchable content enhances productivity and supports just-in-time learning scenarios.

Recon Ng Cheat Sheet eBooks support sustainable learning practices by reducing material waste.

Recon Ng Cheat Sheet eBooks provide consistent formatting that reduces cognitive load and improves reading flow.

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By centralizing knowledge, Recon Ng Cheat Sheet eBooks reduce the need to search across multiple fragmented resources.

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Structured chapters help readers follow logical progressions.

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By centralizing knowledge, Recon Ng Cheat Sheet eBooks reduce the need to search across multiple fragmented resources.

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