Dreamhack

ENTERPRISE BROCHURE

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1. About Theori

1.1 Company Profile
1.2 Awards
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1.1 Company Profile

theori

Company	Theori
CEO	Brian Sejoon Pak
Established	January 2016
Employees	91 (as of March 2024)
Funding	15.5 million USD
Address	**US Office** Theori Inc. PO Box 40033 Austin, TX 78704 United States **Korea Office** Theori Korea 9F, 14, Teheran-ro 4-gil, Gangnam-gu, Seoul, Republic of Korea 06232
Website	theori.io
Media	**X:** twitter.com/theori_io **Facebook:** facebook.com/theori.io **LinkedIn:** linkedin.com/company/theori **YouTube:** youtube.com/@TheoriTV **Blog:** blog.theori.io

1.2 Awards

We hack hackers and lead at the forefront of cybersecurity.
Theori holds the world record for most wins at 'DEF CON CTF', the World Cup of hacking competitions.

2024

- DEF CON CTF 32
  Winner
- Pwn2Own 2024
  Winner
- LINE CTF 2024
  Winner
- ETH Denver
  Hack a Smart Contract
  Winner
- ARWeave Golden
  Floopy Disk
  Winner

2023

- DEF CON CTF 31
  Winner
- Pwn2Own 2023
  Winner
- Google CTF 2023
  Winner
- SECCON CTF 2023
  Winner
- Paradigm CTF 2023
  Winner

2022

- DEF CON CTF 30
  Winner
- Google CTF 2022
  Winner
- Paradigm CTF 2022
  Winner
- Samsung CTF 2022
  Winner
- CODEGATE 2022
  Winner

2021

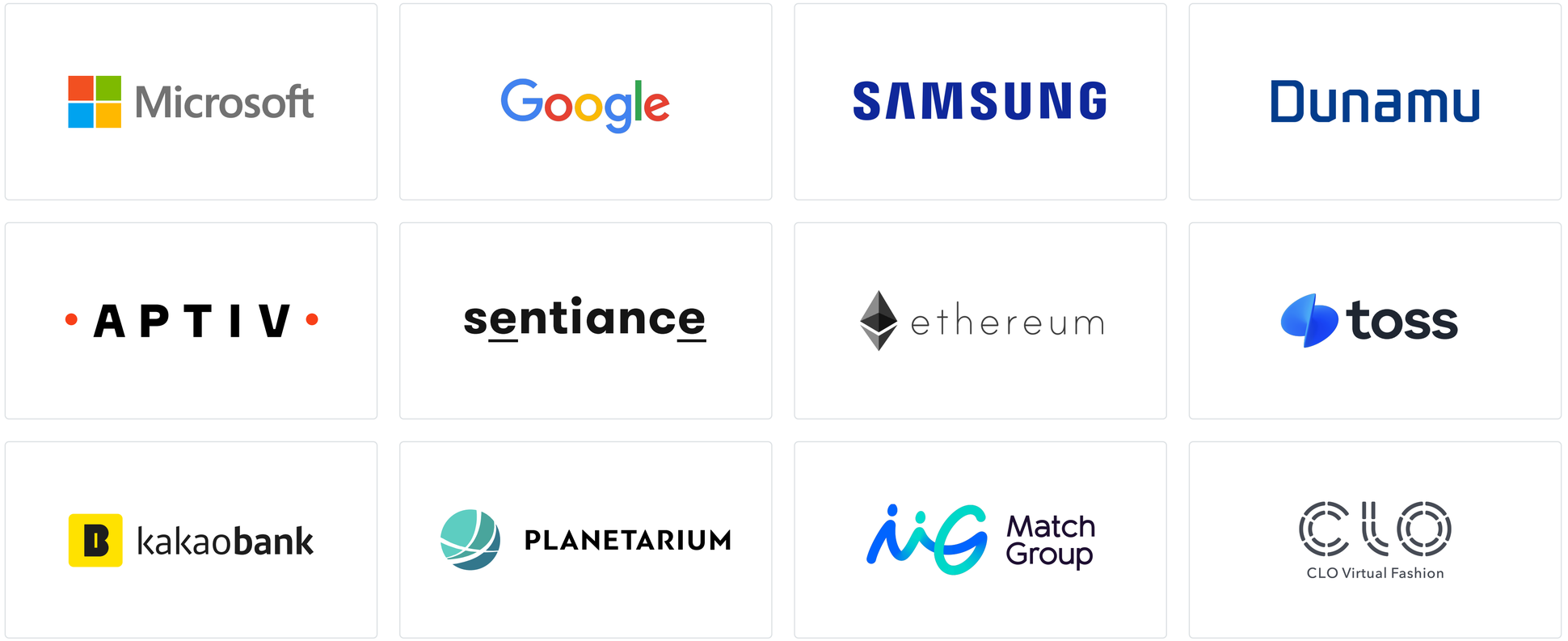
- DEF CON CTF 29
  Runner-up
- HITCON CTF 2021
  Winner
- Korea WhiteHat
  Contest 2021
  Winner
- Samsung CTF 2021
  Winner
- Real World CTF 2021
  Winner

~2020

- DEF CON CTF
  21, 22, 24, 25, 27
  Winner
- DEF CON CTF
  20, 23, 26, 28
  Runner-up
- CODEGATE CTF
  2020, 2019
  Winner
- Cyber Conflict
  Exercise 2019
  Winner

1.3 Clients

With Theori by your side, you're free to be at ease and innovate without fear.



...and many more global partners have chosen Theori.

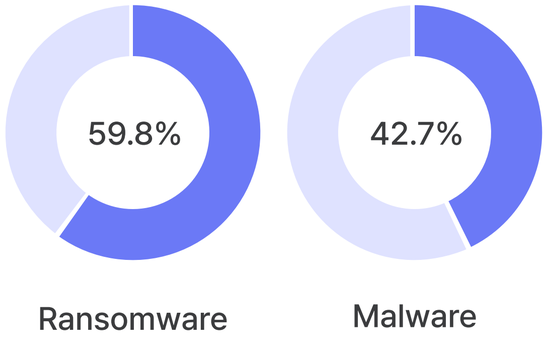
2. Cybersecurity Training Industry Trends

2.1 Increase in Security Incidents
2.2 Recent Security Incidents
2.3 Cybersecurity Training Trends
2.4 Limitations of Traditional Cybersecurity Training

2.1 Increase in Security Incidents

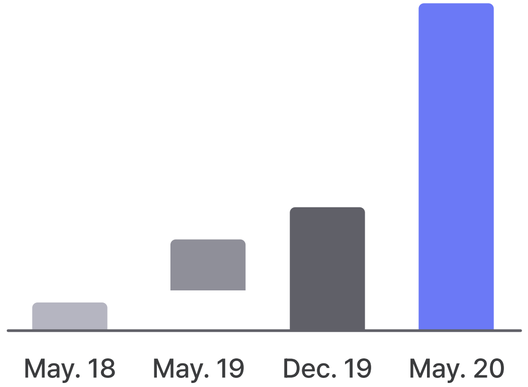
As society evolves and technology advances, cyber attacks are becoming more frequent and severe.
These trends underscore the critical need for robust security measures.

More than 50% of Korean companies have experienced a breach



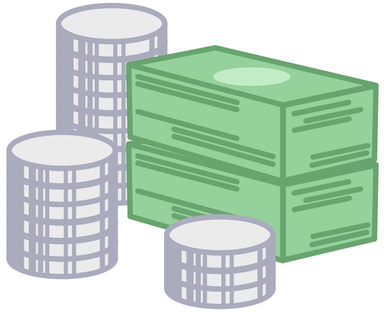
* 2021. 06. Cybercrime Magazine. RansomWare Attack

Attacks on open source SW projects are **increasing by 430%** annually



* See KISA 20th Annual Information Security Survey Results Analysis (Enterprise)

Global ransomware losses expected to reach **KRW 304 trillion** by 2031



* Sonatype. 2020 State of the Software Supply Chain Report

2.2 Recent Security Incidents

All business are potential targets for cyber attacks.
Robust cybersecurity measures are now not optional, but essential.

2022

03

- Hacking group Rapus steals 190GB of internal information from Company S
- Hacker steals $625 million in virtual assets from Axie Infinity

05

- Blockchain service "Harmony Horizon Bridge" hacked for $100M
- Private data of 1300 subscription platform M leaks data of over 13,000 customers.

11

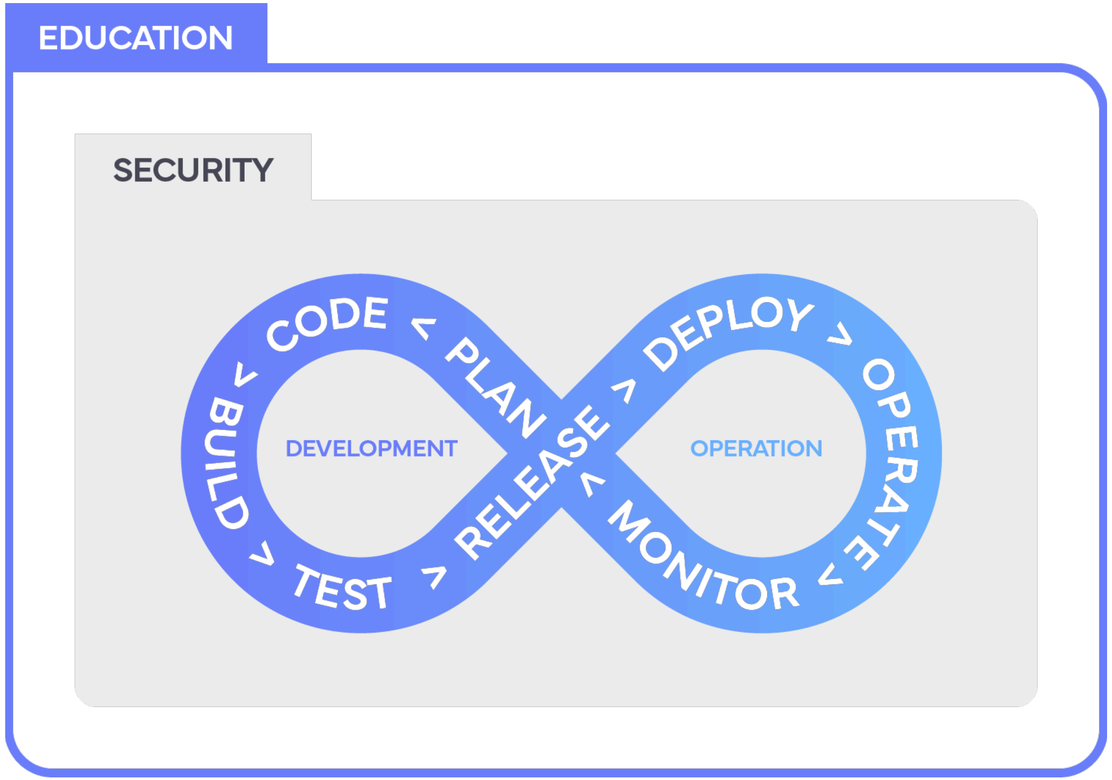
- Increased sale of hacked personal information, with blog accounts trading for $10K each
- Rise in phishing attacks and hacking emails exploiting social issues

2023

02

- User information leak incident at South Korean IT company 'K'
- South Korean telecom service company 'L' leaks over 290,000 user personal data

2.3 Cybersecurity Training Trends



Need for Cybersecurity Empowerment

To prevent security incidents, everyone in an organization must be security-conscious. Developers should integrate safety into their code, while security professionals proactively identify vulnerabilities.

Dreamhack Enterprise helps developers create secure applications and helps security professionals in detecting and addressing vulnerabilities, providing an effective way to safeguard against security threats.

2.4 Limitations of Traditional Cybersecurity Training

Lack of technical security training programs

“There’s a severe lack of practical and technical security training
that goes beyond mere theoretical knowledge, leaving businesses unprepared for real-world threats.”

Lack of training content customized for businesses

“Cybersecurity education is often too focused on theory, when the goal should be to equip businesses
with practical skills to tackle real-world threats.”

Challenges of designing a cybersecurity training curriculum

“Everyone knows cybersecurity is important, but knowing exactly which skills to train and how is another story.”

Challenges in assessing training effectiveness

"I can't tell if the training is effective for my employees.
I have no way to measure their progress before and after the training."

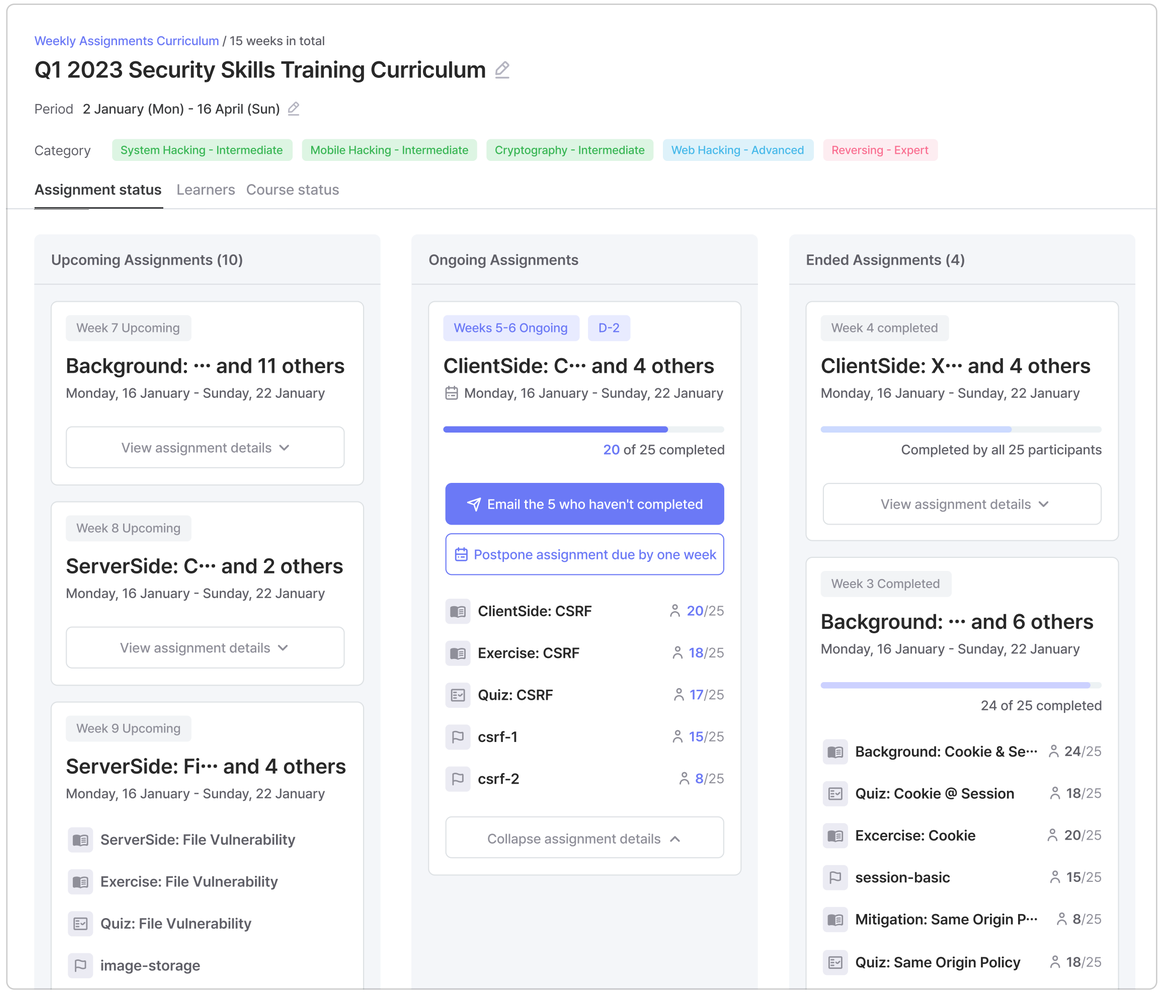
3. Service Overview

3.1 Key Value Proposition
3.2 Key Differentiators
3.3 Educational Features
3.4 Plans & Pricing

Dreamhack Enterprise

Business-focused security traning, management,
and evaluation—**all in one platform!**

3.1 Key Value Proposition



Quality Educational Training Content

Experience high-quality cybersecurity training with expertly crafted courses designed for real-world application.

Business-centered Cybersecurity Training

Acquire essential workplace security skills through lectures paired with practical challenges for deeper learning.

Curriculums Anyone Can Create

Create tailored curriculums with just a few clicks, effortless even for those without security expertise.

Actionable User Data Insights

Evaluate and compare user skills using objective, measurable data.

3.2 Key Differentiators

Objective Metrics for Cybersecurity Talent Development

- Internal Metrics: Evalute users based on course progression rates, test scores, and other key indicators.
- External Metrics: Leverage the largest pool of users in South Korea to objectively gauge skill levels and benchmark performance.

Misconduct Detection Features

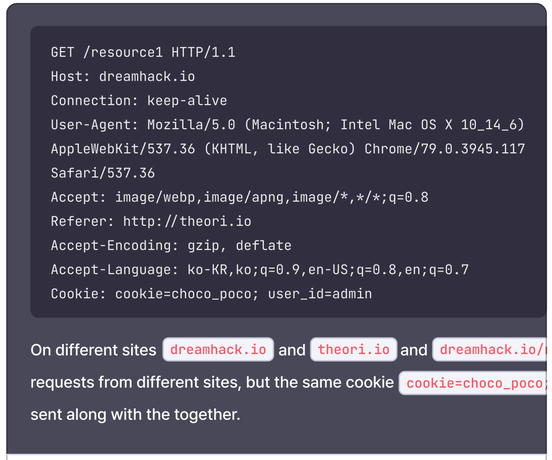
- Quickly identify cheating during challenges or competitions.
- Receive instant alerts and relevant data on any instances of misconduct.

Certified Excellence in Cybersecurity

- Dreamhack's courses have delivered results for thousands of hackers and contributed to South Korea’s largest security talent program, BoB (Best of the Best), for two consecutive years.
- As a pioneer in security education, we continually evolve to stay ahead of industry developments.

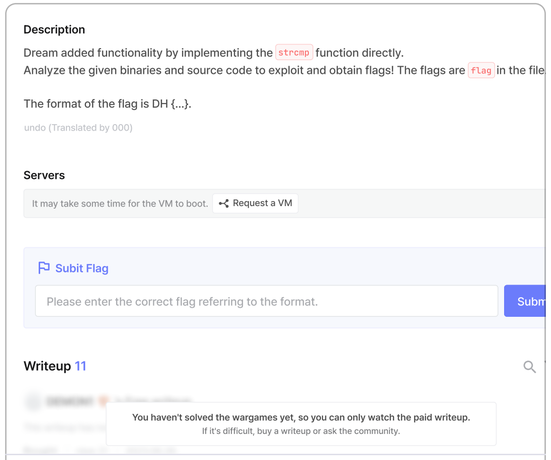
3.3 Educational Features

Dreamhack is a community dedicated to all facets of cybersecurity education, from training to management and everything in between.



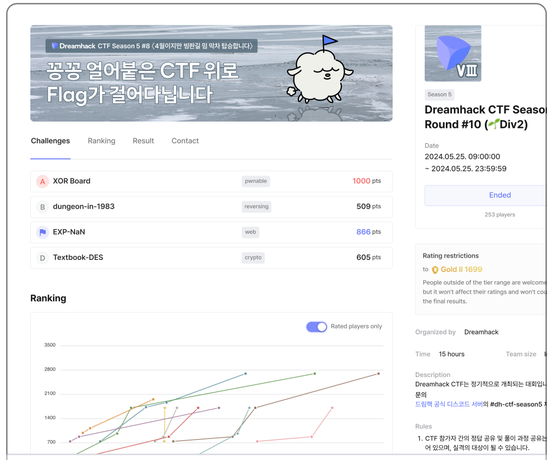
Lecture

Discover lectures ranging from beginner classes to specialized content for industry professionals.
Our courses cover a wide array of topics tailored to the needs of businesses and organizations.



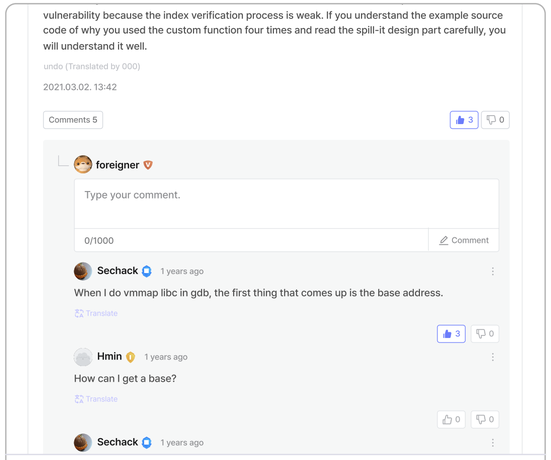
Wargames

Explore practical challenges that mirror the latest technological trends.
Gain hands-on experience in identifying vulnerabilities and executing attacks from an attacker's perspective, while also learning to implement security measures from a defender's viewpoint.



CTF

Users can participate in CTFs(Capture the Flag), hacking competitions, to apply their knowledge and objectively measure their achievements.



Forum

Dreamhack hosts South Korea's largest community for sharing insights on cybersecurity incidents, technical research, and more.

3.4 Plans & Pricing

Dreamhack Enterprise offers nine categories of affordable courses,
providing over 50 weeks of courses available throughout the entire subscription period.

Enterprise

- **Personal Q&A session with Dreamhack experts**
- **Enterprise-exclusive Roadmaps**
  - Cloud
  - Kubernetes
  - Secure Coding
- **Paid Roadmaps**
- **Early access to new courses**
- Enterprise-exclusive wargames
- Enterprise-exclusive community

- Request new courses $
- Exclusive live lecture session $
- Hiring CTF $
- Support for organizing offline competitions $

$ Available for additional purchase

Request a Quote

4. Key Features and Benefits

4.1 [Education] Courses for Both Offensive and Defensive Security
4.2 [Education] Enterprise-exclusive Wargames
4.3 [Management] Streamlined Curriculum Configuration
4.4 [Management] Effective Progress Management
4.5 [Management] Customized Assessment CTFs
4.6 Key Benefits

4.1 [Education] Courses for Both Offensive and Defensive Security

Dreamhack has a total of 13 educational curriculums in various categories, with more to come.

★ Lecture with practice challenges | Enrichment curriculum

Foundation Curriculum

Offensive Security

Dream Beginners	Introducing and using Dreamhack Basic environment configuration manual ★ Computer science fundamentals and Linux usage Subject-specific study guidelines ★ ssh, docker, regex, etc.
Web Hacking	★ HTTPS, Cookies, etc. ★ Introduction to attack techniques such as XSS, CSRF ★ How to use SQL Injection and attack techniques ★ Introduction to NoSQL, Linux, and Windows vulnerabilities and attack techniques ★ CSP Bypass Techniques & Defense Strategies ★ Learn various client-side and server-side vulnerabilities.
Reverse Engineering	Computer structure, x86-84, architecture SW dynamic analysis, static analysis concepts Introduction to x86-64 Assembly Language IDA installation methods and features ★ How to use Ghidra
System Hacking	Environment Setup and Tool Usage Linux architecture and memory structure ★ Stack, Heap-based attack techniques such as FSB, DFB, etc. ★ Attacks using Linux libraries ★ Specific Techniques (Heap, FSOP, IO, etc.)
Digital Forensic	★ Digital Evidence & File Systems ★ Windows Forensics ★ Linux Forensics

Specialized Curriculum

Offensive Security

Cryptography	★ Classical ciphers and modern ciphers ★ Block ciphers, such as AES, DES, etc. ★ Public-key ciphers, key exchange algorithms ★ Hash, digital signatures
Mobile Hacking	Building Android, iOS environments Frida features and how to use them ★ Bypass techniques for root detection and SSL/TLS pinning
Embedded Hacking	Embedded device architecture ★ ARM binary analysis and exploitation ★ Firmware analysis and emulation ★ Using hardware practice tools ★ Hardware hacking techniques (e.g., Fault Injection)
Linux Kernel Hacking	★ Kernel architecture and protection techniques ★ Types of kernel vulnerabilities ★ CVE-based challenges
Linux Kernel Hacking	Analyzing V8 engine internals Understanding V8 optimization techniques Understanding V8 memory structure ★ Browser vulnerability analysis and exploitation challenges

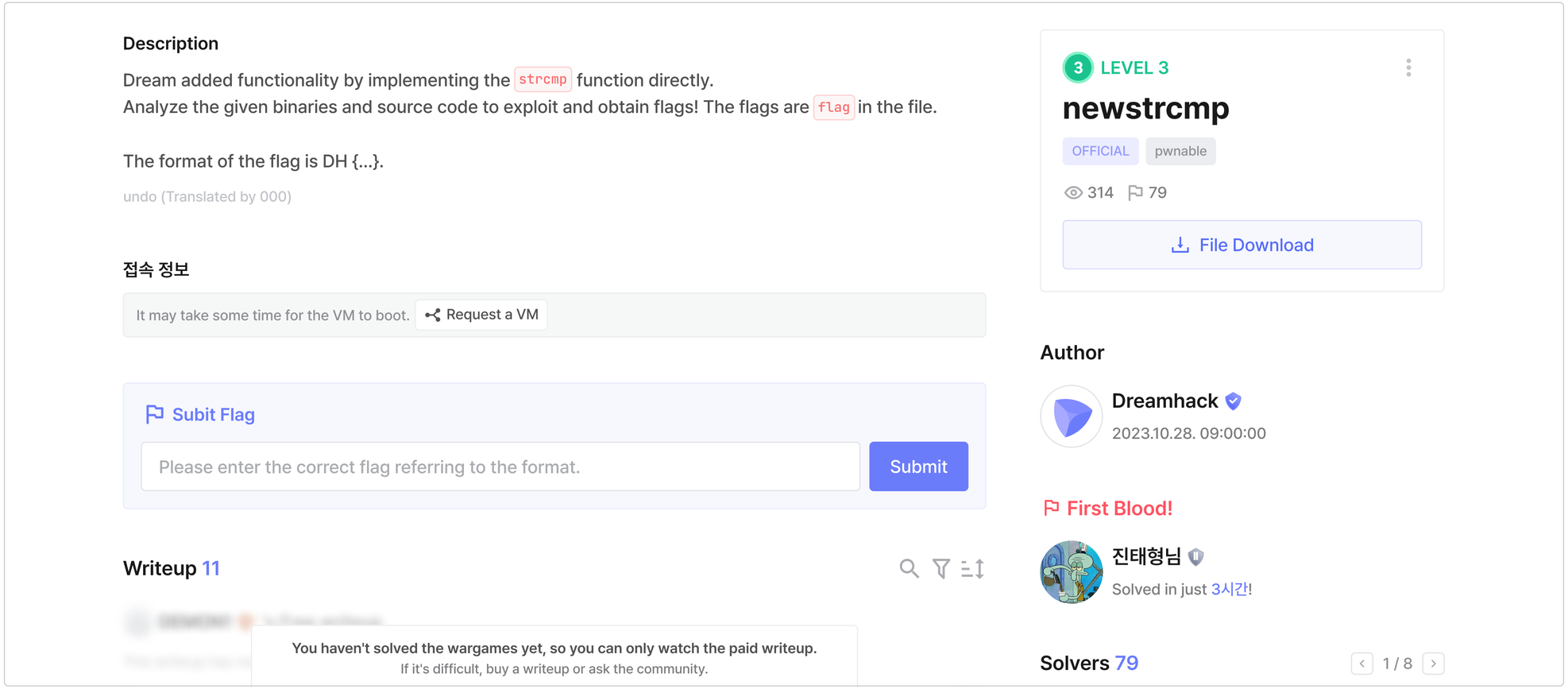
Multidisciplinar Curriculum

Defensive Security

Cloud Security DREAMHACK ENTERPRISE ONLY!	AWS, GCP, Azure security fundamentals Kubernetes environment challenges ★ Service inspection and vulnerability patching
Secure Coding DREAMHACK ENTERPRISE ONLY!	Kotilin Spring, C++, React ★ Vulnerability Types Case Study ★ JWT, Lock, CSP ★ Frontend vulnerability types ★ Issues caused by memory safety
Blockchain DREAMHACK ENTERPRISE ONLY!	★ Basics of EVM and Solidity ★ Introduction to smart contracts

4.2 [Education] Enterprise-exclusive Wargames (1/2)

Access nearly **500 enterprise-exclusive wargames** (practice challenges), categorized into 10 difficulty levels and 7 fields, allowing both beginners and experienced users to hone their skills.



4.2 [Education] Enterprise-exclusive Wargames (2/2)

Experience specialized challenges for enterprise users, featuring the latest cybersecurity technology trends and comprehensive write-ups.

```python
fIn = open("secretMessage.enc", "rb")
fOut = open("secretMessage.raw", "wb")
nowChar = prevChar = None

while True:
    nowChar = fIn.read(1)
    if nowChar == b"":
        break
    fOut.write(nowChar)
    if nowChar == prevChar:
        _count = fIn.read(1)
        if _count == b"":
            break
        count = ord(_count)
        for _ in range(count):
            fOut.write(nowChar)

    prevChar = nowChar
```

Write-up

When you run the question, you'll see a menu that looks like this.

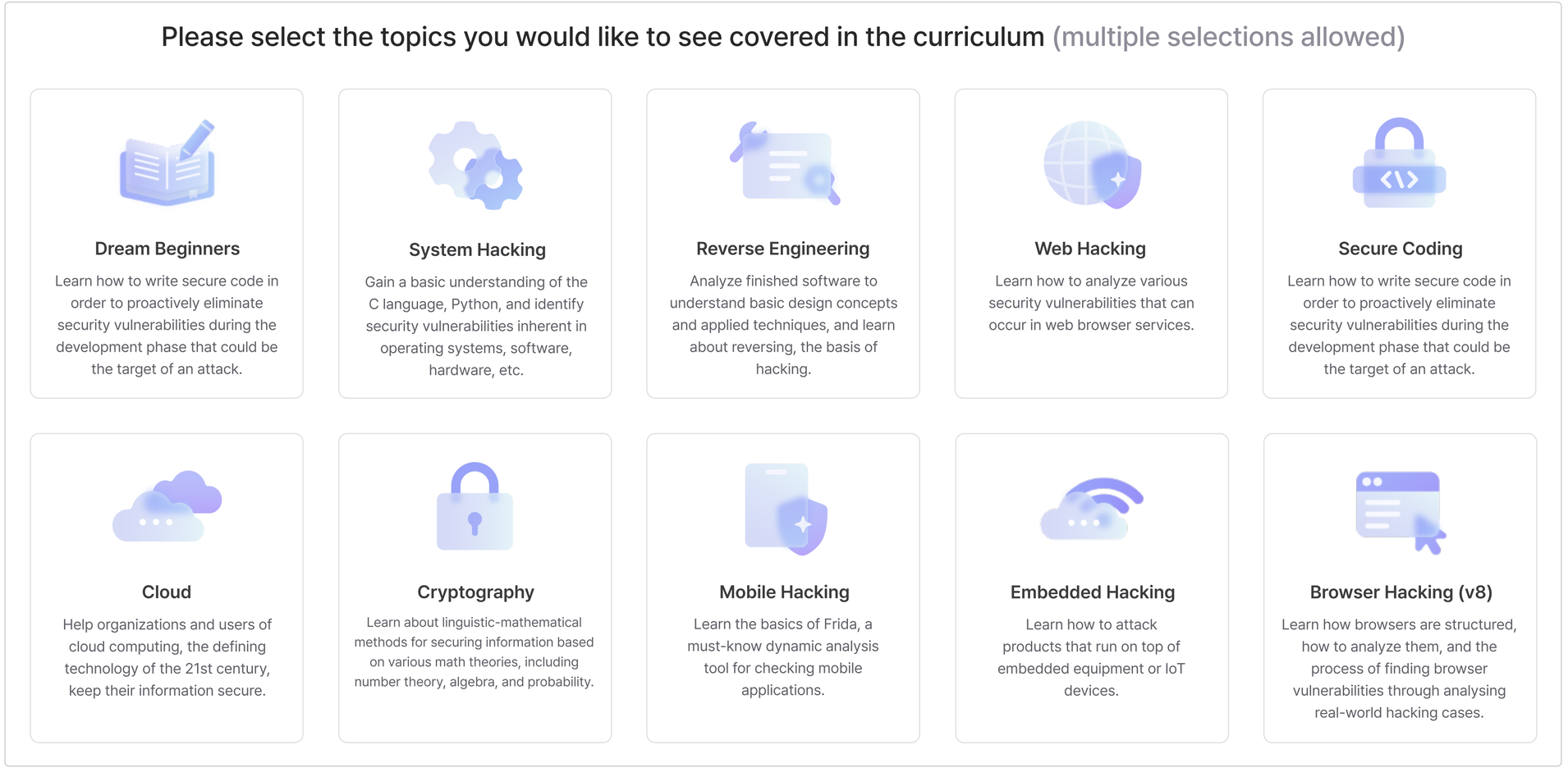
```
[Sane Env System]

operations:
1. set environment variable
2. unset environment variable
3. run hard-coded system()
4. exit
>
```

If you look at the decompilation of `main()`, which the IDA automatically analyzes for you, you can see that the main logic of the binary is all contained within the `switch` statement. Below is an excerpt of that part of the code.

```
switch ( v4 )
      {
        case 3:
          size = confstr(0, 0LL, 0LL);
          if ( !size )
          {
            puts("_CS_PATH invalid!");
            exit(-1);
          }
          buf = (char *)malloc(size);
```

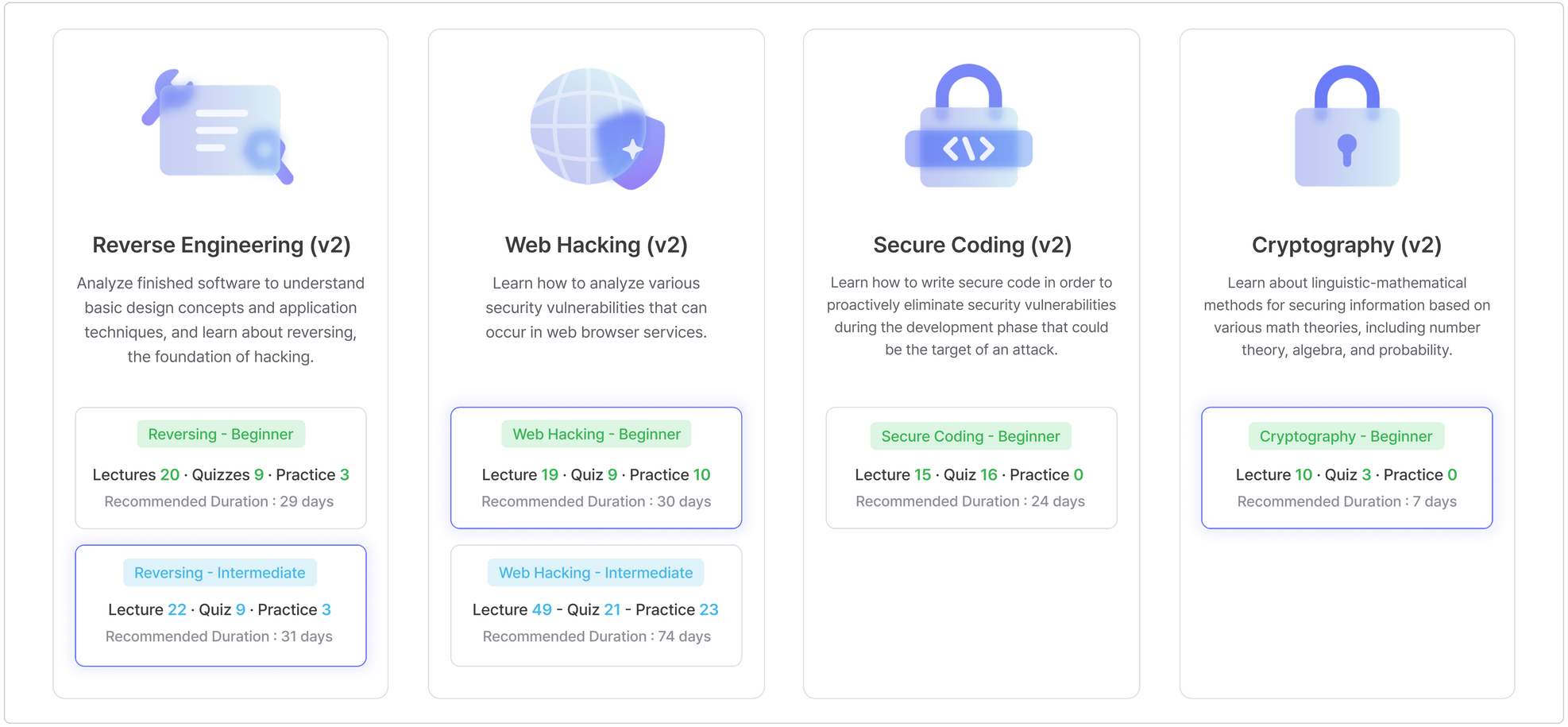
4.3 [Management] Streamlined Curriculum Configuration (1/3)

Admins can select appropriate lectures for their training needs based on category descriptions.
Wargames are generated automatically.



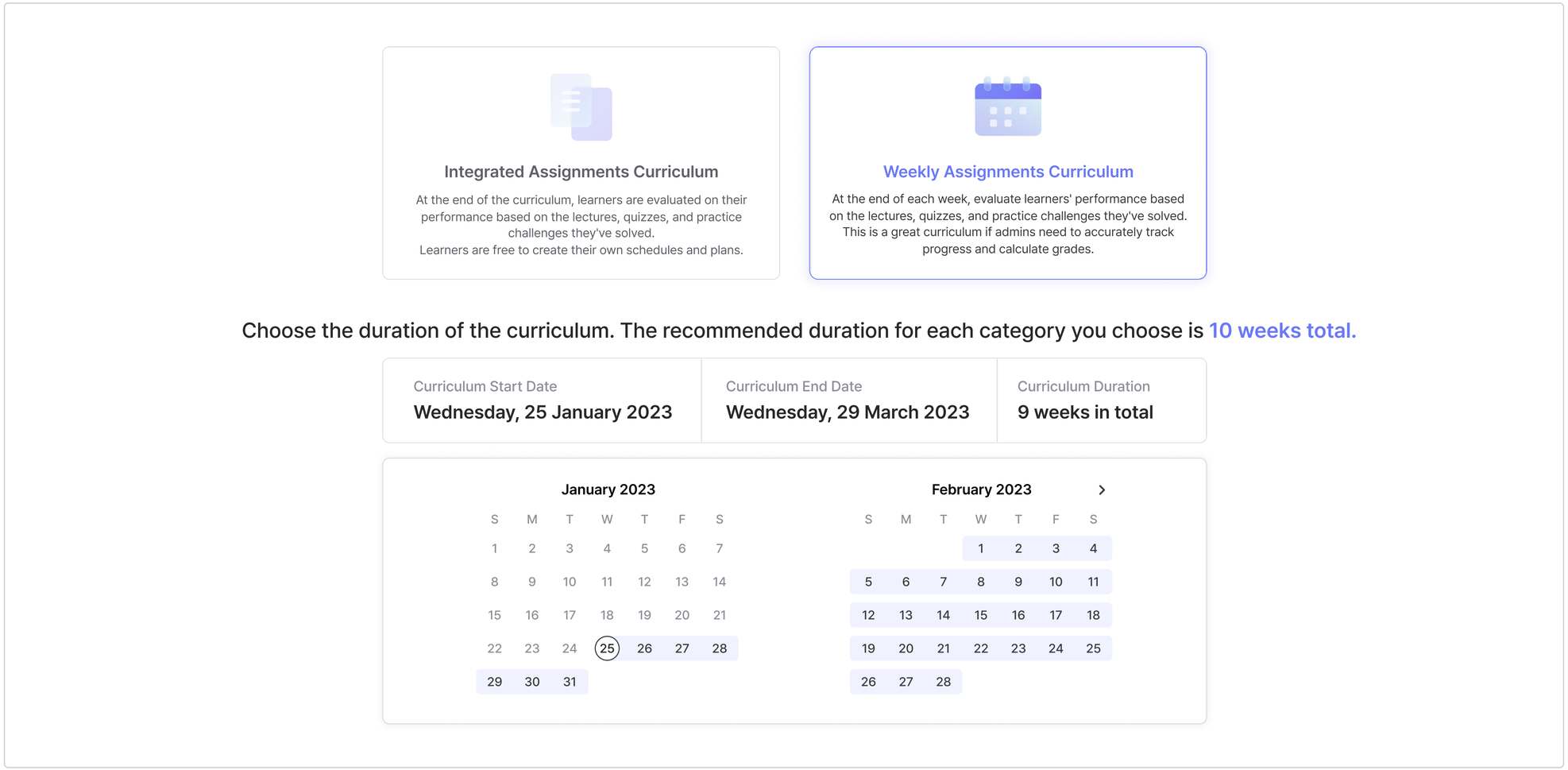
4.3 [Management] Streamlined Curriculum Configuration (2/3)

Admins can specify the difficulty level of the chosen category.
Dreamhack provides a detailed explanation of the difficulty level during the walkthrough.



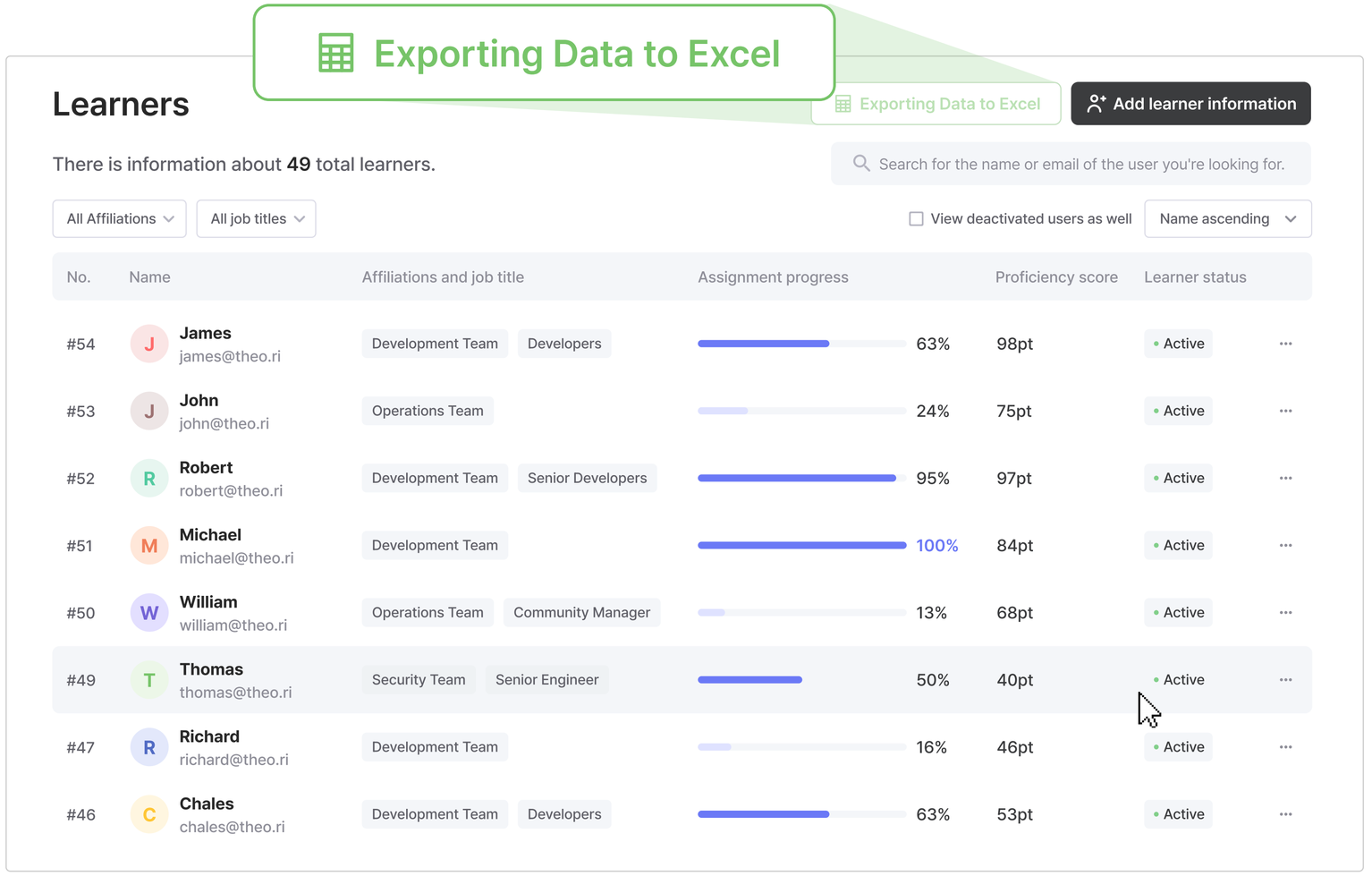
4.3 [Management] Streamlined Curriculum Configuration (3/3)

Admins receive automated suggestions for an appropriate timeframe to complete the chosen curriculum, with the option to set their own schedule.



4.4 [Management] Effective Progress Management (1/2)

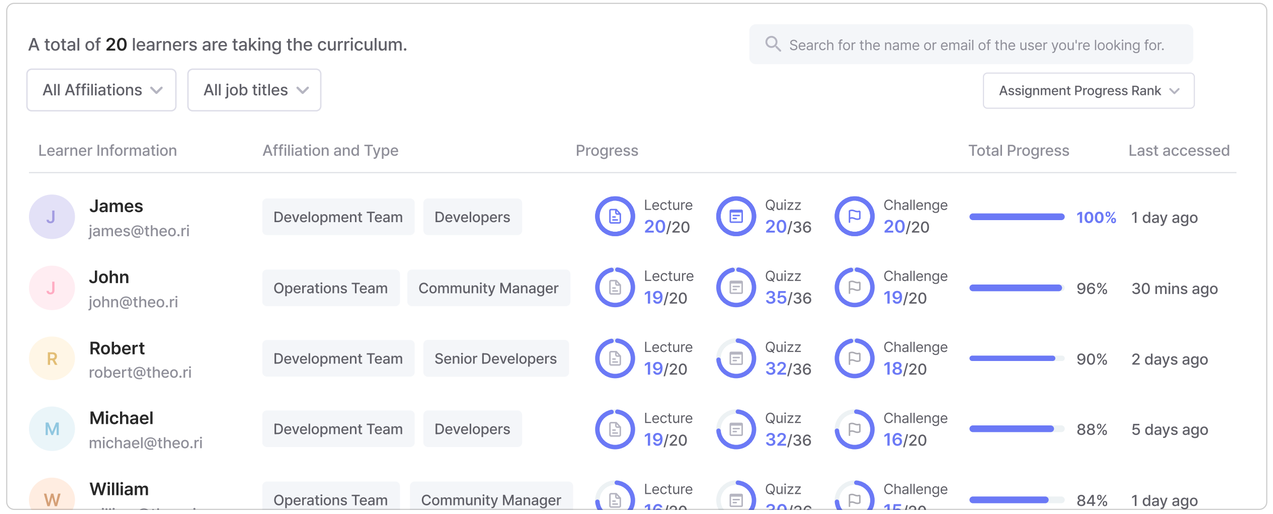
The platform offers an admin page for an overview of user progress. Admins can **export user data to Excel** for detailed management and analysis.

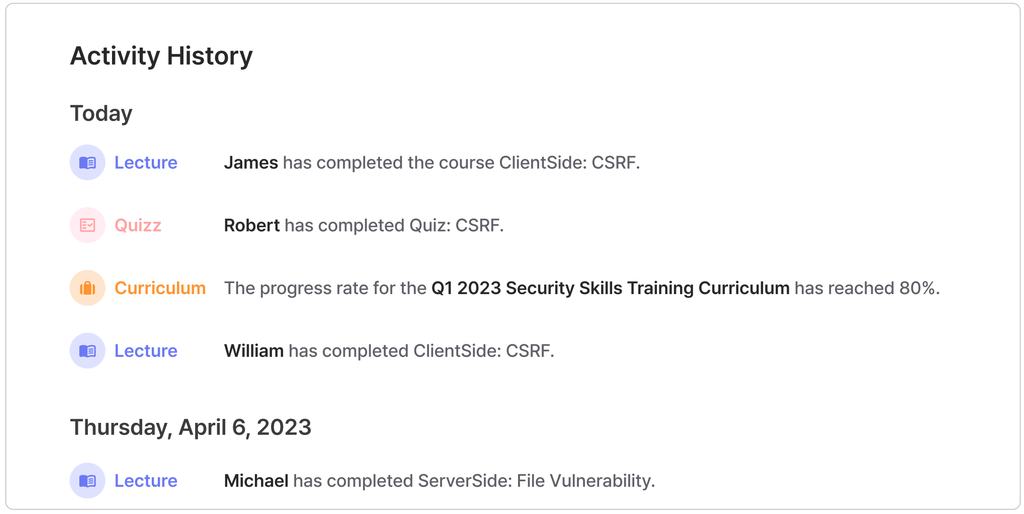


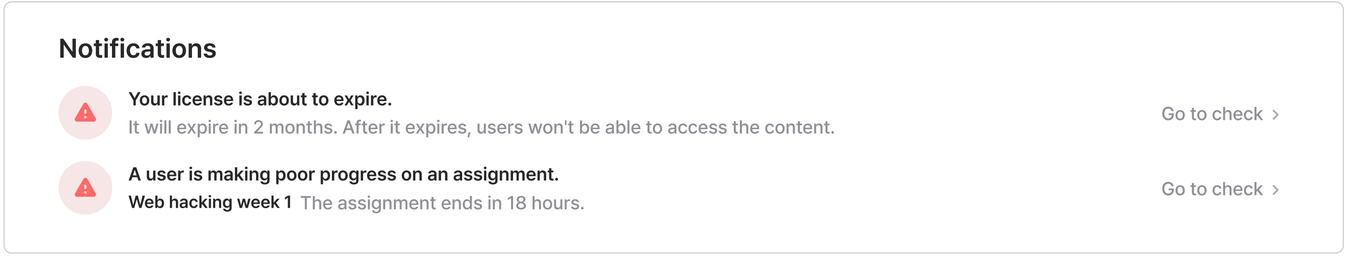
	A	B	C	D
1	Dreamhack Enterprise Assignment Achievements			
2	Name	Email	Affiliation	Ty
3	James	james@theo.ri	Development Team	Dev
4	John	john@theo.ri	Operations Team	Co
5	Robert	robert@theo.ri	Development Team	Sen
6	Michael	michael@theo.ri	Development Team	Dev
7	William	william@theo.ri	Operations Team	Co
8	Thomas	thomas@theo.ri	Security Team	Sen
9	Richard	richard@theo.ri	Development Team	Dev
10	Charles	charles@theo.ri	Development Team	Dev

4.4 [Management] Effective Progress Management (2/2)

Monitor user information with real-time activity tracking and receive alerts for users who are not progressing on assignments.







4.5 [Management] Customized Assessment CTFs (1/2)

Experience CTF scenarios that simulate real-world security challenges, equipping users with **rapid response skills essential in the workplace.** Admins can host private CTF events at any time during their Enterprise Plan subscription.

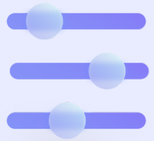
There are two types of CTFs: **manual CTFs**, which allow admins to customize challenges in detail, and **one-touch CTFs**, which are quick and easy to set up with just a few clicks.

One-touch CTF

Easily create a CTF with pre-made wargame challenges

Host One-touch CTF >

1. Accessible to any admin manager, even without prior knowledge of CTF (Capture The Flag) structures.
2. Simple to organize - just set the duration, category, and number of wargames.
3. Wargames are automatically chosen from the Dreamhack wargame pool.



Manual CTF

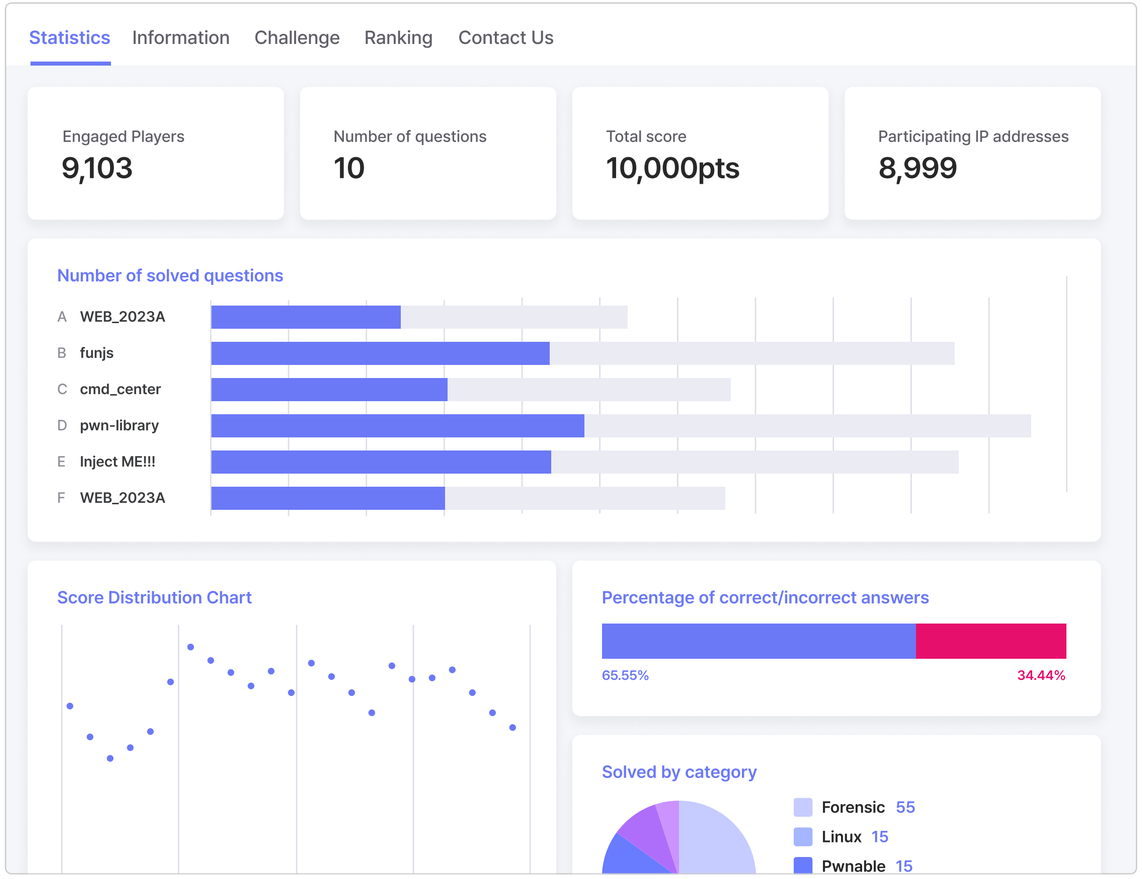
Customize engagement, rewards, rules, and more to create the perfect CTF for your learners

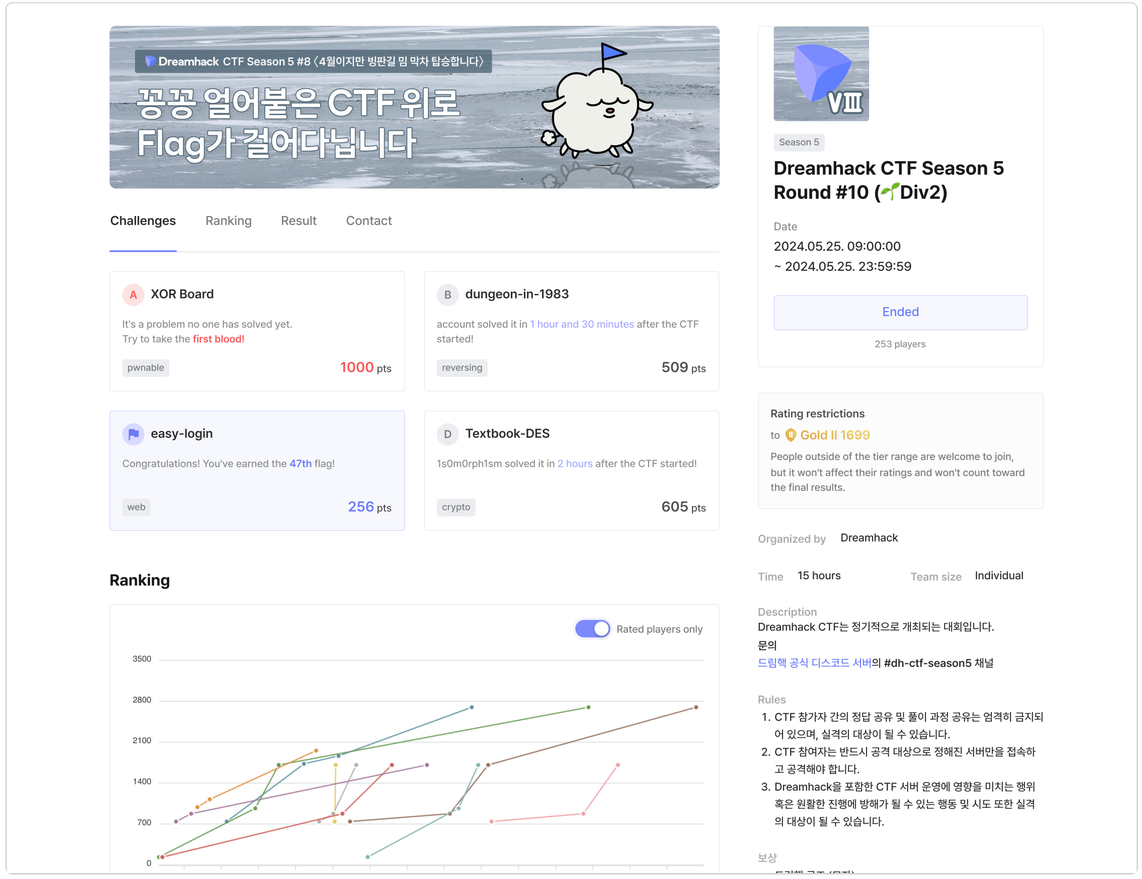
Host Manual CTF >

1. Offers more detailed settings compared to the One-touch CTF.
2. Admins can customize participation types, rewards, rules, flag formats, submission limits, and more.
3. Businesses can create their own wargames in addition to Dreamhack wargames.

4.5 [Management] Customized Assessment CTFs (2/2)

CTF results, including metrics such as the number of attempts and solutions per challenge and score distribution, offer an objective view of each user's strengths and weaknesses in various areas.





4.6 Key Benefits

With Dreamhack Enterprise, businesses can achieve a competitive edge in security, build user trust, raise security awareness, and enhance security training for long-term success.

Quality cybersecurity training content

Develop security talent to proactively address vulnerabilities

COMPETITIVE EDGE IN SECURITY

Tailored content and hands-on experiences

Demonstrate your business' investment in cybersecurity training

BUILD USER TRUST

Courses that can be easily created and managed by anyone

Provide security training with minimal operational resources.

RAISE SECURITY AWARENESS

Access to detailed user data

Leverage accumulated user data to plan for future courses

ENHANCE SECURITY EDUCATION

5. Adoption Guide

5.1 Partners
5.2 Customer Stories
5.3 Adoption Process
5.4 Customer Benefits

5.1 Partners

Public organizations, educational institutions, and various businesses have all chosen Dreamhack as their partner to enhance their cybersecurity capabilities.

LG Electronics
금융보안원 FINANCIAL SECURITY INSTITUTE
NAVER
우아한형제들
Dunamu
LG CNS
POSTECH
KAIST
dongguk UNIVERSITY
고려대학교 공과대학 Korea University College of Engineering
육군사관학교
선린인터넷고등학교 SUNRIN INTERNET HIGH SCHOOL
한국디지털미디어고등학교 KOREA DIGITAL MEDIA HIGH SCHOOL
multicampus

5.2 Customer stories

All our partners have successfully cultivated essential workplace cybersecurity talent with Dreamhack.

Security Engineer, P

It was great to be able to apply the things I learned and test my skills through a variety of wargame challenges.

Security Engineer, U

It was enlightening to see firsthand how a real vulnerability can pose a security risk. I appreciated how the course was structured to explain the ways systems can be vulnerable even with additional security measures.

Security Engineer, K

Experiencing actual hands-on security challenges and CTFs definitely improved my cybersecurity skills.

Security Training Manager, J

Our users have shared that they learned a great deal from Dreamhack Enterprise. They also reported having a deep level of engagement with the material.

5.3 Adoption process

Adopting Dreamhack is a simple process.

1. Contact us

Send us any questions you have about Dreamhack Enterprise and determine which plan is best for your business.

2. Request a demo

Experience key features of the Enterprise Plan on our free demo page.
If you want to sign a contract right away, you can skip it!

3. Contracting

Finalize terms, appoint admin managers, and handle all other details with us online.

4. Guided meetings

Get a detailed walkthrough during online meeting and customize settings according to your needs.

5. All done!

Enjoy full access to Dreamhack throughout your subscription.
We'll maintain constant communication with your admin to ensure everything runs smoothly!

5.4 Customer benefits

Dreamhack Enterprise Plan customers are eligible for
special pricing offer on Hiring CTFs.

What is Hiring CTF?

A hacking competition utilizing Dreamhack's platform and operational support, featuring wargames designed by world-class cybersecurity researchers to help businesses hire the security talent they need.

Key features of a Hiring CTF

CTF Platform Support

Open and manage a CTF page that details information about the competition and the status of applicants.

Wargames

Provide business-specific challenges that are customized by category and difficulty level to verify the skills you business requires.

Detailed User Data Reports

Review comprehensive reports on applicants, detailing their wargame solve history, level of understanding, communication skills, and more.

ALPINELAB

Careers iOS / Safari Vulnerability Analysis Researcher
Participants **848**

"Dreamhack's CTF helped us hire someone with the skill set we needed, and he has been an excellent performer in the field.”

AlpineLab

GMDSOFT

Careers Android / iOS Kernel Vulnerability Analysis Researcher
Participants **567**

"The Hiring CTF is a very good system for companies to have an objective assessment of the best candidates and to reduce the effort required for assessment."

GMDSOFT

Dunamu

Careers Senior Penetration Hacking Manager
Participants **Private**

“It's been great to have a reliable filter for candidates, with Dreamhack as a trusted source of verification, to avoid difficult skills tests and cumbersome hiring processes.”

Dunamu

Learn more about Dreamhack

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dreamhack.io

Learn more about Dreamhack Enterprise
dreamhack.io/enterprise

Learn more about Theori
theori.io

Founded	2017.09.22
Address	9th floor, 14, Teheran-ro 4-gil, Gangnam-gu, Seoul, Republic of Korea
Website	dreamhack.io
Phone	+82 070-8864-1337
Email	dreamhack@dreamhack.io

Dreamhack