FUJITSU

Overview of Services/Solutions
RED TEAM - Learning & Exercise Platform (RLEP)

Powered by CTFd

Cyber security organization consists of blue team, red team and purple team. Each of organization having their own function to leverage the level of security profile
In most of cases these are the function of each role :

- Red Team
   Adversary their capability to find some weakness in specific target using a complex and combine technique and tools of penetration testing skills
- Blue Team
   Continue leverage to elevating the security posture profile of the environment under their responsible
- Purple Team
   A new term that will set the effectiveness of both blue team and red team

RED TEAM - Learning & Exercise Platform provides simple, effective and integrated solution to improve your plan, implement and assess a specific learning process. It is used for eLearning and realizes advanced operations for Challenges idea, concept, deployments under secured environment.

RLEP enables you to leverage the level of security profile and exercise to find some weakness rules for all organization members in order to improve capabilities in cyber attack prevention & penetration.

RED TEAM - Learning & Exercise Platform
- Customer Benefits
- What is RLEP?
- Server Configurations

Customer Benefits

In this case the benefit is to helps in facilitating competency Red Team enablement:
1. Zero competency development starts with information security awareness
2. Accreditation and computer security training
3. Penetration testing accreditation and training
4. Updated learning collateral
5. Playground testing environment

by providing a platform :

- **Learning Portal**

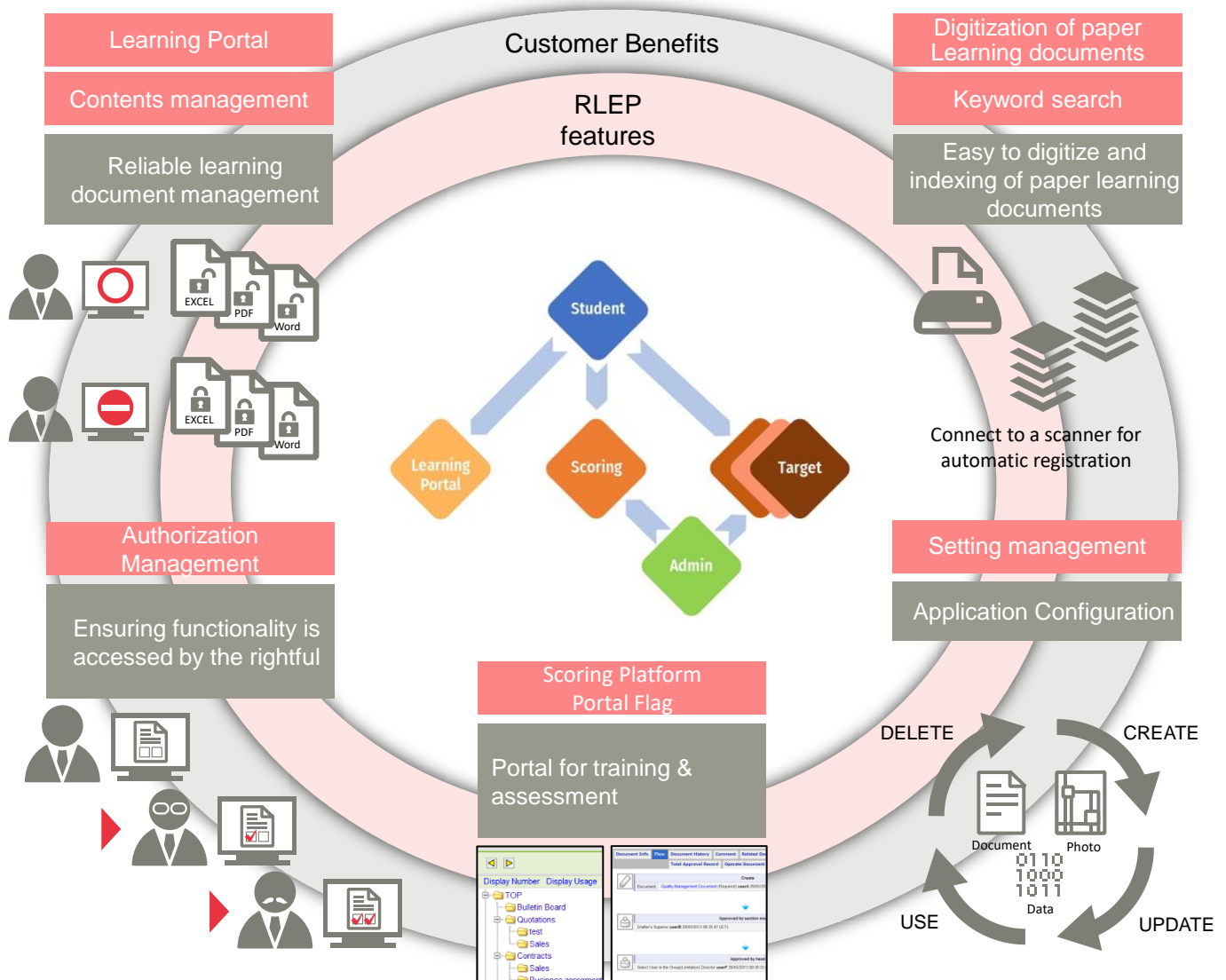 A platform of library ecosystem contains learning material.

- **Scoring Platform**

  A library ecosystem consist of latest resources of reference for student leverage their knowledge through reading material. It is a web base platform, The playground it self is consists of :
  - ✓ As student for accessing challenges and uploading the flag
  - ✓ As student can be use as well for warming up exercise through exercise iteration
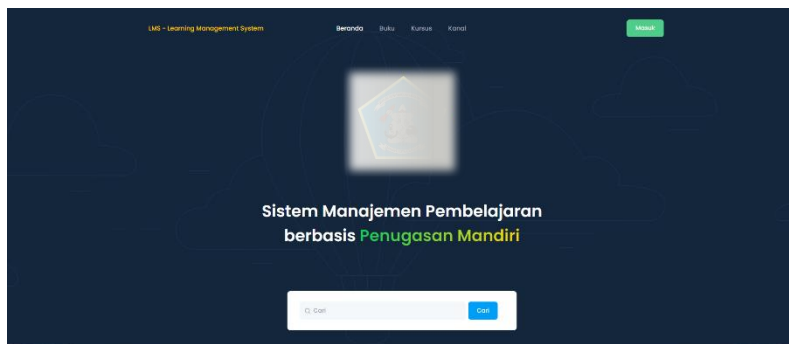 - ✓ As admin for composing the challenges score and monitor the scoring progress

What is RED TEAM - Learning & Exercise Platform?

RLEP is a facility to improve capabilities in cyber attack prevention & penetration exercises to achieve integrated management and provides a learning platform that enables all members to practice and improve capability for the future readiness.

Learning Portal

Contents management

Reliable learning document management

Authorization Management

Ensuring functionality is accessed by the rightful

Customer Benefits

RLEP features

Student

Learning Portal · Scoring · Target

Admin

Scoring Platform Portal Flag

Portal for training & assessment

Digitization of paper Learning documents

Keyword search

Easy to digitize and indexing of paper learning documents

Connect to a scanner for automatic registration

Setting management

Application Configuration

DELETE · CREATE

Document · Photo

Data

USE · UPDATE

Learning Management System

Main Page

- **Learning Portal**
  - ✓ A platform of library ecosystem contains learning material.

  - ✓ Provides Content Management System functionality
    - Application configuration
    - Database connection settings
    - Application access user settings
    - Data editing
    - Data search
    - Data filters

  - ✓ Provide search e-books using keyword searching, tagging searching methods Filters that can be used include:
    - Type
    - Subject
    - Content Source
    - Skill
    - Duration

  - ✓ Displays a list of Category E-Books Channel List is List of available channel content which can be selected by user

  - ✓ Provide feature tracking and reporting capabilities of student user activity
    - Assignments : Show task list and due date
    - Activity : Show user activity history. Notes can be downloaded as a CSV file
    - Digital Badges : ability to earn Digital Badges which are visual, verifiable records of achievements.
    - Playlists : Lists created by users, used to assist users in making lists of things the user wants to learn

Home Page

RED TEAM - Learning & Exercise Platform
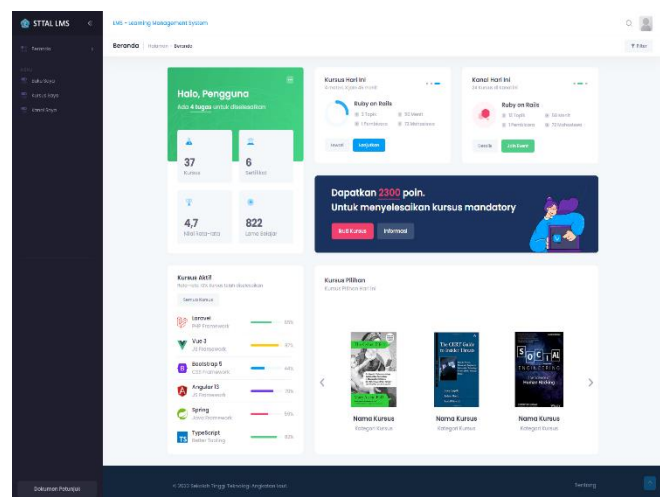
Learning Management System

List of Learning Management Features		

Category	Feature	Description
Login	Login	Users enter user IDs and passwords to log in to the system.
Document management	Document list display	Documents registered in folders are displayed in list. The filter feature enables uses to choose which items to display.
	Document registration	Documents are registered in designated folders. Users are able to set an group/classification per document.
	Document access	This feature provides access to information on registered documents and attached files. Users are also able to access authorization records.
	Document operation	Documents can be updated, invalidated, permitted to be accessed, deleted, restored, copied, and relocated. It is possible to set access controls per document.
	Document search	New document search, full-text search, category search, detailed document search, and synonym search are available.
Master maintenance	Private menu	Users are able to add shortcuts to features (e.g., category search or conditional search) in their private menus.
	Category management	Documents can be registered, copied, and deleted.
	Other master management	This feature provides tools for maintenance of user and group accounts, documents, and other masters.
Data operation	Import/export	This feature is used to import and export folder information, user and group information, and document masters.
Learning Experience features	Content Access	This feature is used to access learning material content.
	Learning User Profile	This feature is used to retrieve status, achievement, scoring of learning material.
	Tracking	Provide list assignments and its due date, show the activity history of the user and records of accomplishment.
Profile	Account Information	This feature enables users to manage detail user information (Password, Email Address, Notifications)
System administration	System information setting	Users can configure system information settings for Application.
Service features	Notification	Automated notifications (email)
	Dashboard	Visualization of learning achievements, grades

Server Configurations

We propose the following server configurations depending on the scale of use (the server models are examples).

Usage scale	No. of concurrent clients	No. of registered documents	Configuration sample	
Medium 1 to 50 users	50 or fewer	Approx. 1 million PDF file pages	AP/DB server FUJITSU Server PRIMERGY RX2530	1 to 50 PCs

Server/Client Environments	

Server software
  OS: Windows / Linux
  DB: SQL Server

Client software
  OS: Windows 10
  Browser: Internet Explorer 8.0/9.0
  Note:HDD: Approx. 1.5 TB (for 1 million PDF pages)

Scoring Platform Portal Flag (CTFd)

What is CTFd:

CTFd is a Capture The Flag framework focusing on ease of use and customizability,
It comes with everything you need to run a CTF and it's easy to customize with plugins and themes.

Feature packaged

CTFd has features designed to support organizers. Constant development efforts, opensource contributors, combined with plugins and themes give it the most flexibility of any CTF framework.

Visualize your Teams
With all the visualization in CTFd you'll know what's going on with just a glance.

Control Everything
All you need to use to run your very own Capture The Flag is a web browser. Just use the built in administration panel and say goodbye to database queries.

And save your CTF too
With the Import/Export feature, you can save your CTF and reuse all your hardwork.

Edit Everything
With its HTML editor, you can create entire pages in side of CTFd. Need to share lots of links? Make an FAQ? A contact page? No problem.
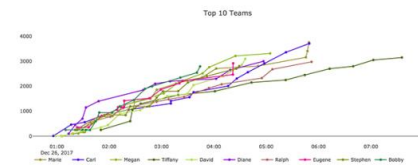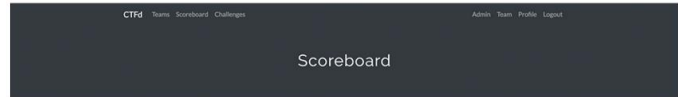
Add Hints for those hardtimes
Hacking is hardwork. If your users are stuck you can setup
hints for them to get unstuck.

Clean but Customizeable
No clutter makes the default theme of CTFd a beauty without being opinionated

Individualized Infrastructure
Unique isolated target servers for every user
No more users trampling over each other solving challenges

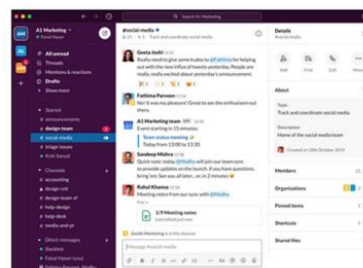**Improved User Authentication & Permissions**
Integrate with your LDAP, SAML, or SSO provider
Configure administrator permissions for content editors, judges, etc

All CTFd Cloud Features
All features, plugins, and themes available to you regardless of
hosting infrastructure

Unlimited users
Unique ctfd.io subdomain or your own domain
Secure TLS/SSL connection
Preconfigured Email Settings
3M monthly page views
30 container servers
Free access to our custom themes
SAML Authentication
IP Address Restrictions
Custom Theme Upload beta
Unlockable Challenges
Dynamic Value Challenges
Programming Challenges
Multiple Choice Questions
Manual Verification Questions
Webhooks (includes Slack & Discord Integration)

Direct Support

Engage with CTFd developers over a Slack Connect channel for rapid answers and issue resolution
Additional on call support for events and critical projects

support@ctfd.io | twitter/ctfdio | facebook/ctfdio | github/CTFd