

CYBER RANGE

USER GUIDE

Document Control

Author	Silensec
Document Reference	Cyber Range User Guide
Document Version	1.0
Date	21/02/2020
Distribution	Silensec Aitonix

Revision History

Revision	Date	Description
1.0	20/02/2020	Cyber Range v1.2.8 User Guide

CONFIDENTIALITY

The content of this document is CONFIDENTIAL and property of Silensec. It contains confidential information that captures Silensec know how and expert knowledge. Any reproduction and/or circulation, either electronic or by any other means is forbidden without prior approval by Silensec. Circulation is STRICTLY limited to the stated recipients.

Copyright © 2020 Silensec Limited. All Rights Reserved

Table of Contents

Cyber Range User Guide	3
About Cyber Range	3
Getting Started	4
User Registration	5
Default Home Page	5
Homepage Overview	6
Menu	10
Dashboard	10
Library	10
My Events	15
Game Mode	18
Scheduling and reminders	19
User Settings	20
Review and Create	21
Team	23
Settings	30
Graphics	30
Gameplay	31
Audio	31
Account	31
Help	32

Cyber Range User Guide

This user guide is based on v1.2.8 of the Cyber Range Platform. It is intended to assist a user in navigating the platform.

About Cyber Range

Cyber Range (CR) is a gamified platform for cyber security professionals and cyber security enthusiasts. The development of CR is based on gamification principles so that players can develop cybersecurity competences while playing. CR is a state of the art scalable cloud-based cyber range supporting thousands of simultaneous users. The fundamental design principle behind cyber range is that each user should have access to a personalized environment. Just like with traditional physical ranges, each user has access to his/her own practice targets independently of other users. Conversely, traditional cyber ranges share their virtual environments and users contend available resources to practice their cybersecurity skills, which results in conflicting situations where virtual machines or often rebooted in the middle of an activity or where the user does not have full control of his/her learning environment.

Within CR each virtual environment is available to any user independently from one another and each user can interact with that environment at will without affecting other users!

Getting Started

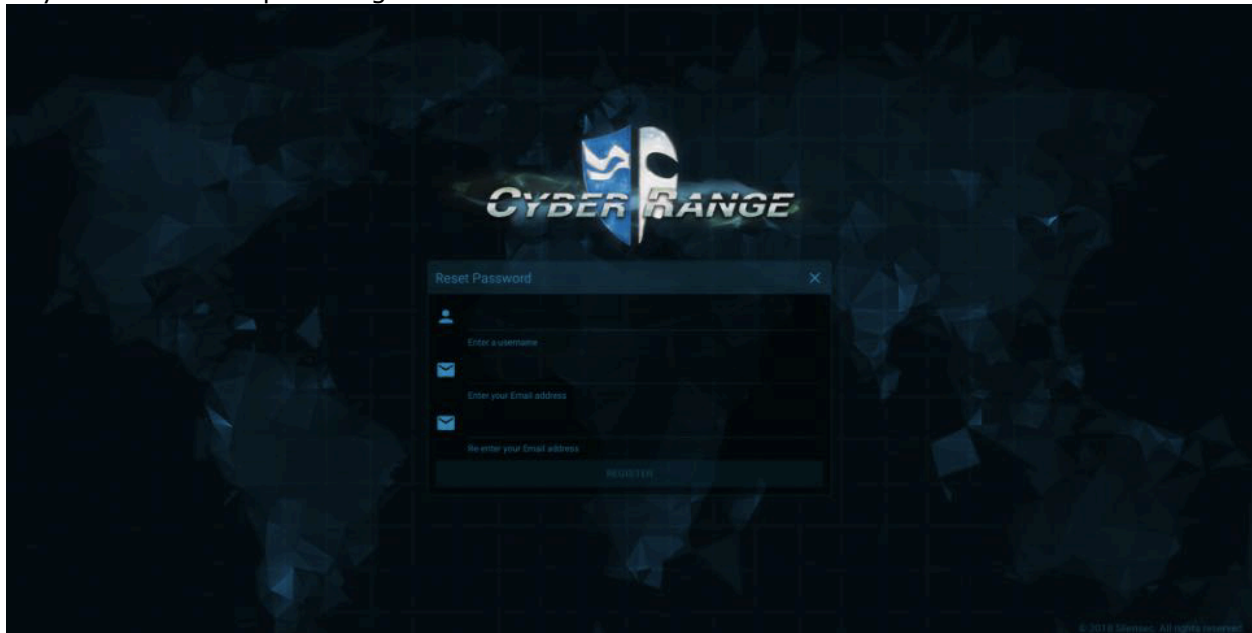
Cyberranges can be accessed on the following url [Cyber Range – The Ultimate Cyber Security Platform](https://cyberranges.com)

**NOTE:**

The current version of Cyber Range supports the Firefox browser.

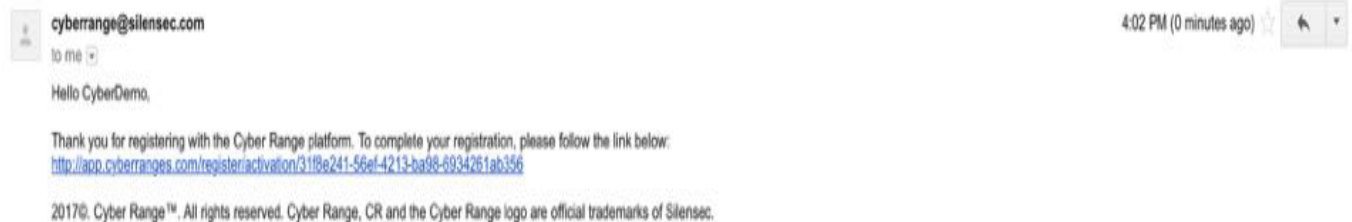
User Registration

The first step is to register on the platform by filling the registration form with a username of your choice and providing a valid email address.



Upon clicking the REGISTER button you will receive a validation email from cyberrange@silensec.com like the one shown below.

Cyber Range - User Registration



Click on the registration link in the email to complete the registration process.

Default Home Page

The default home page after launching cyberranges has several features at a glance as shown below:



Homepage Overview

The left tab has the following tabs:

1. Profile
2. Menu
 - Dashboard
 - Library
 - Compete
 - Team
 - Leaderboard
3. Tools
 - Settings
 - Help

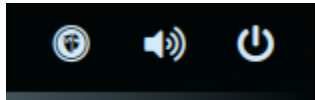
The Top Right Corner has the following Icons:

1. Crystals
2. Toggle Volume
3. Logout

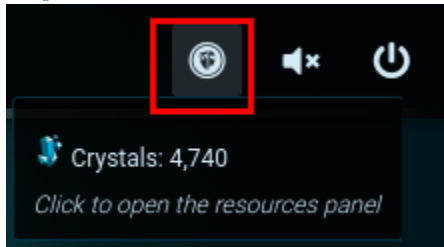
The dashboard displays a number of Cyber Range statistics:

1. Total Teams
2. Total Scenarios
3. Total VMs Started
4. Total Hours Played
5. New Releases
6. Scenarios In Progress if any.

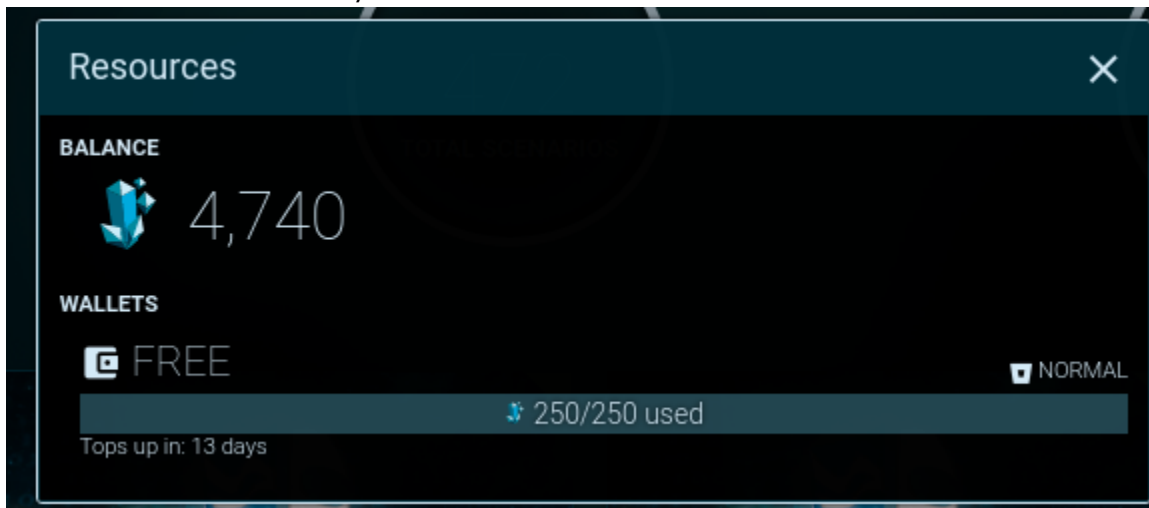
Top Right Corner



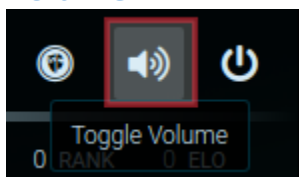
Crystals



Crystals icon shows the crystals balance of the user's account. Click on the icon to view detailed information on crystals.

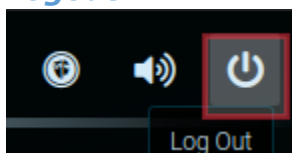


Volume

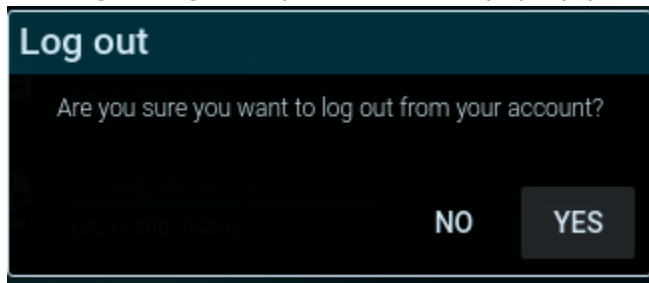


Toggling the Volume turns volume on or Off.

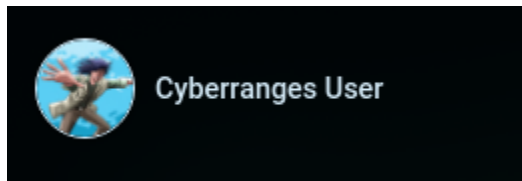
Logout



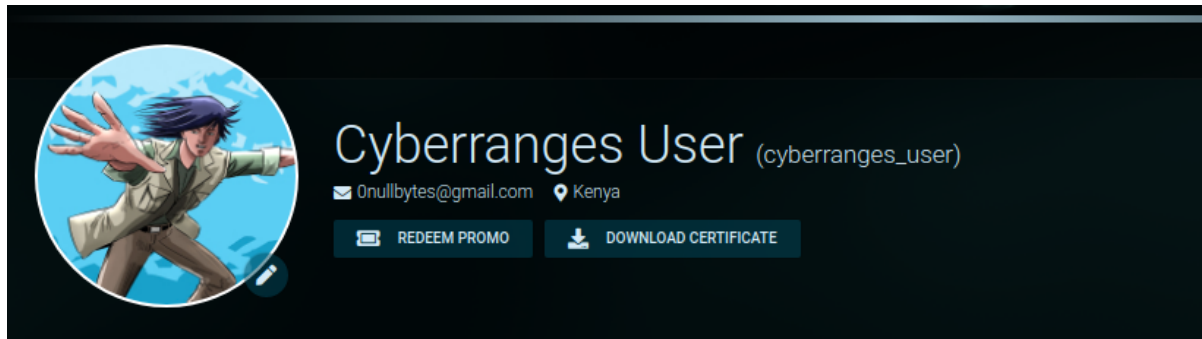
Clicking on log out option, shows a pop up prompting one to confirm the logout.




Profile

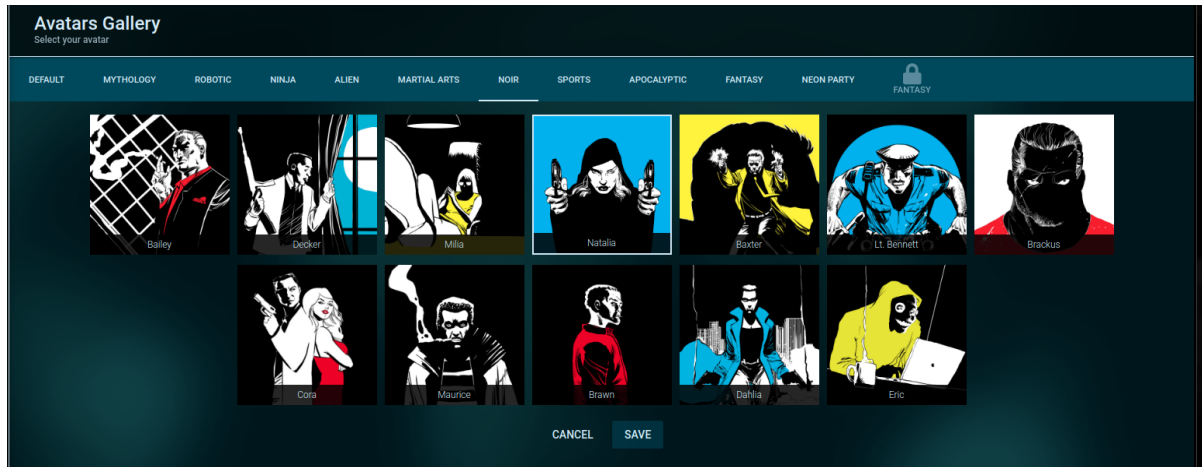


Clicking on the profile, shows the details of one's profile:



- Profile Name and User name
- Email associated with the account
- Location
- Option to redeem promotion
- Location
- Option to download VPN certificate

Clicking on the  icon next to the profile picture allows editing of the profile picture, where one can choose from different categories available on the Avatars Gallery.



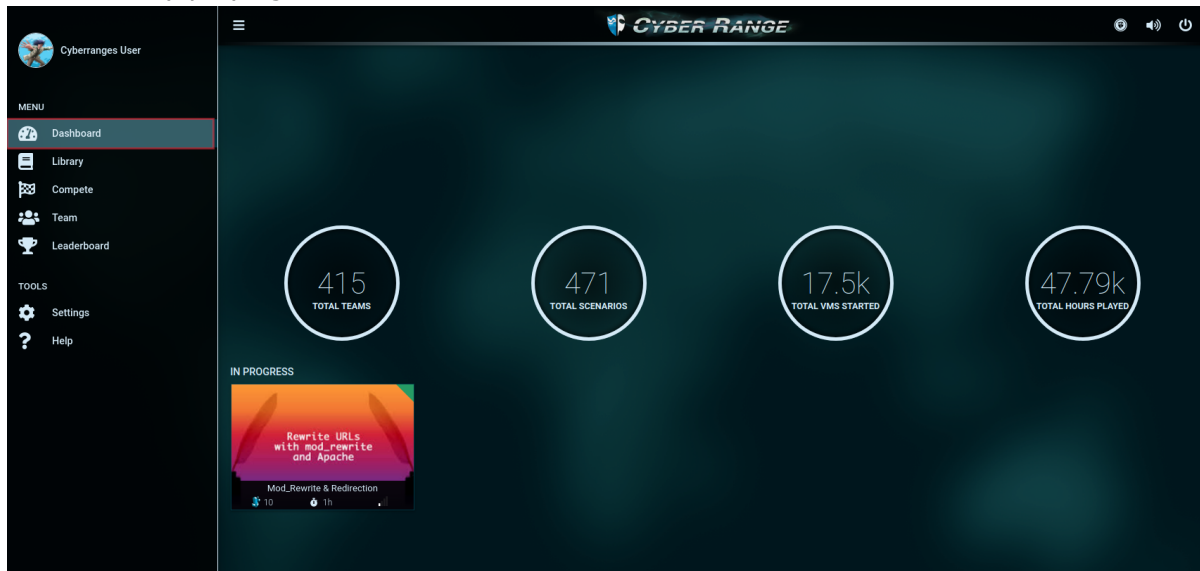
To edit account details click on Account settings, where you can edit your profile details or change your password.

The screenshot shows the 'ACCOUNT SETTINGS' page, which is highlighted with a red border in the top navigation bar. The page is divided into two main sections: 'PROFILE INFORMATION' and 'CREDENTIALS'.
PROFILE INFORMATION
First Name: Cyberranges
Last Name: User
Country: Kenya (with a search icon and dropdown)
A 'SAVE' button is located below the profile information fields.
CREDENTIALS
A 'CHANGE PASSWORD' button is located in this section.
At the bottom, there is a 'PRIVACY SETTINGS' section with the text 'Coming soon'.

Menu

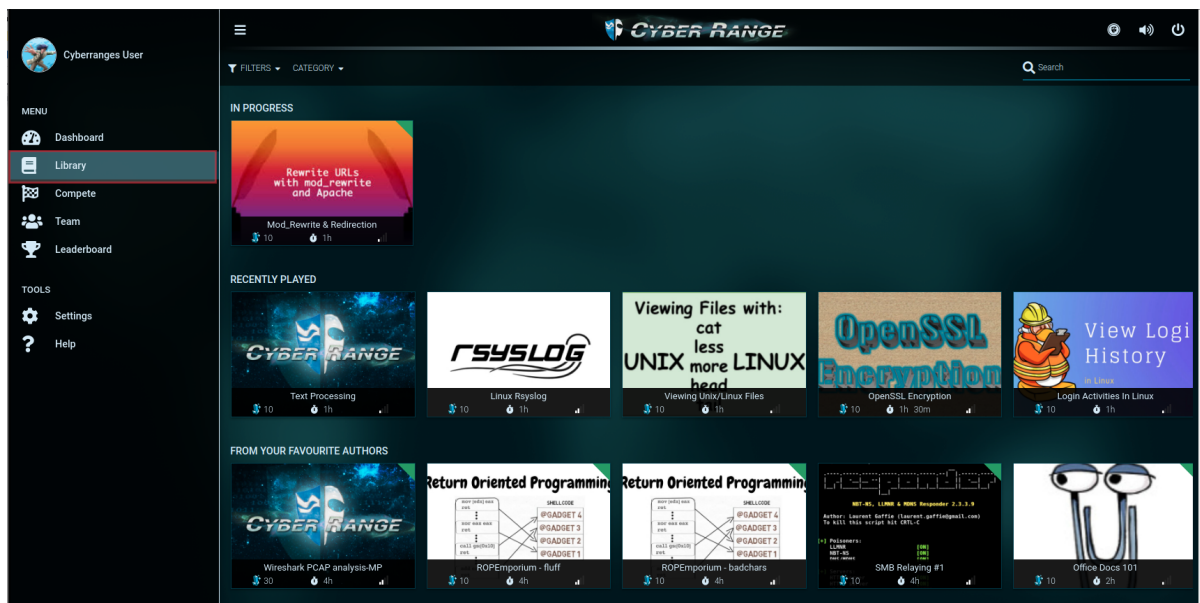
Dashboard

By default, when cyberranges is launched it opens the Dashboard page, which shows a number of Cyber Range statistics, and most importantly, shows a list of scenarios that you are currently playing.



Library

The Library has a conclusive list of scenarios that are single player by nature. A CR scenario is a game play which may include a number of components such as a storyline, some questions to answer or challenge to complete and a virtual environment for you to interact with, alone or with other players. Finally, some scenarios are single player while others are multiplayer.

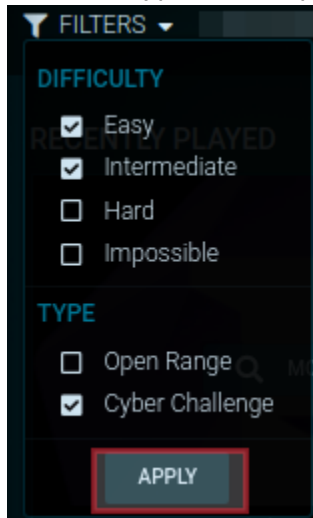


The default Library page has different sections to help in finding a scenario.

On the top Bar there is the Filter, Category and Search tabs.

i) Filters Tab

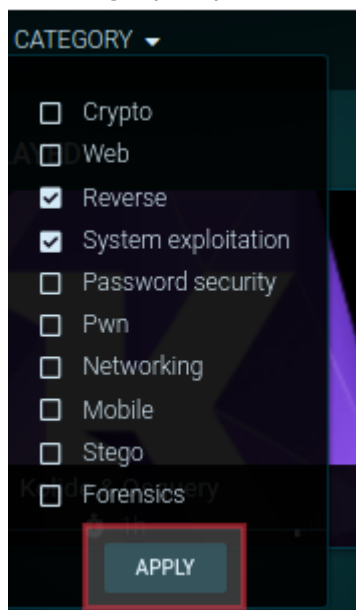
Clicking On the Filters Tab, one can filter for scenarios based on scenario *Difficulty level* or *scenario Type*. Click *Apply* for the filters to take effect.



ii) Category

CATEGORY ▼

One can choose scenario(s) to play based on their category. More than one category can be chosen. To select a category check its box and click apply to get a list of scenarios based on the category of your choice.



iii) Search

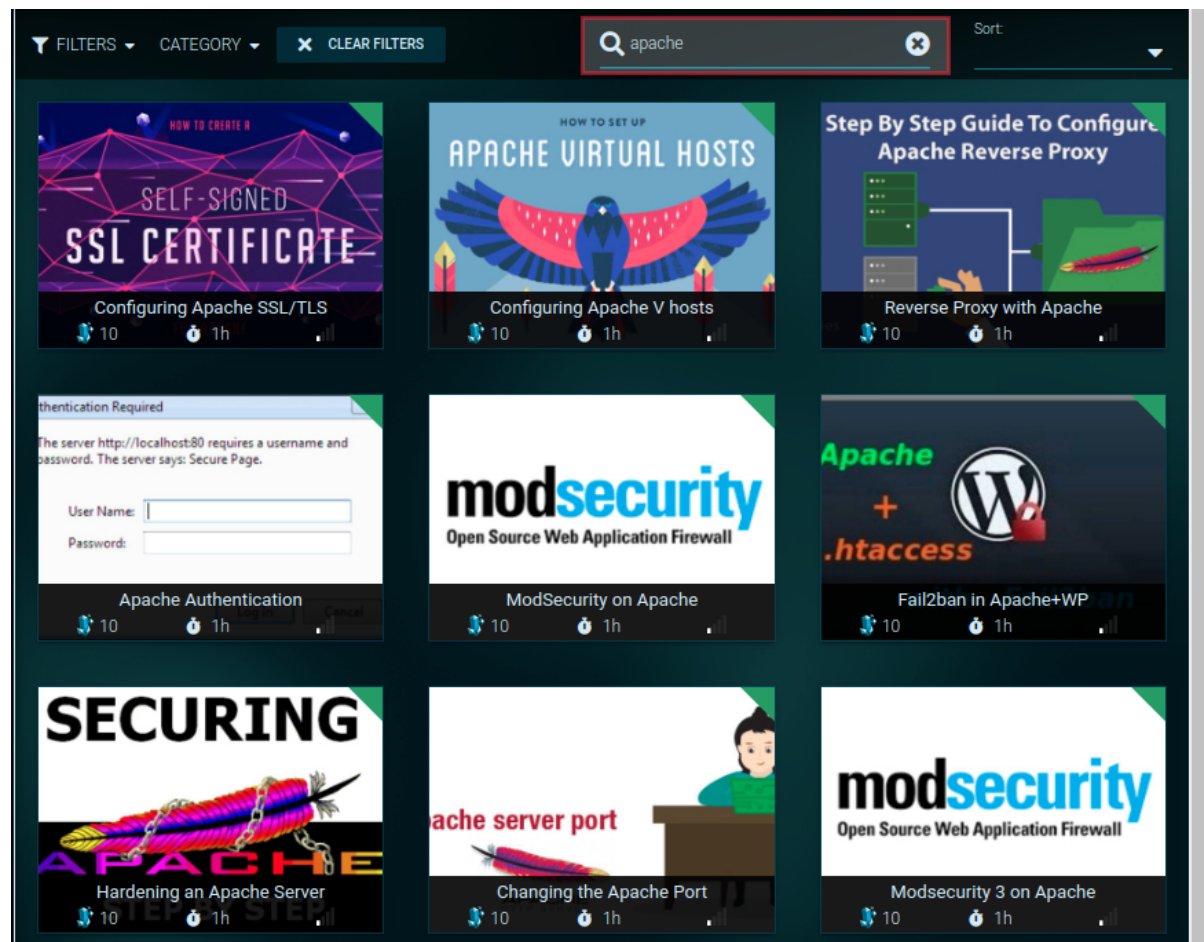


To play a scenario one can do a basic search with scenario name keywords, by entering the search at the search bar at the top far right:

E.g. to search for an apache related scenario:



This will return a list of scenarios that match the search criteria.



NOTE:

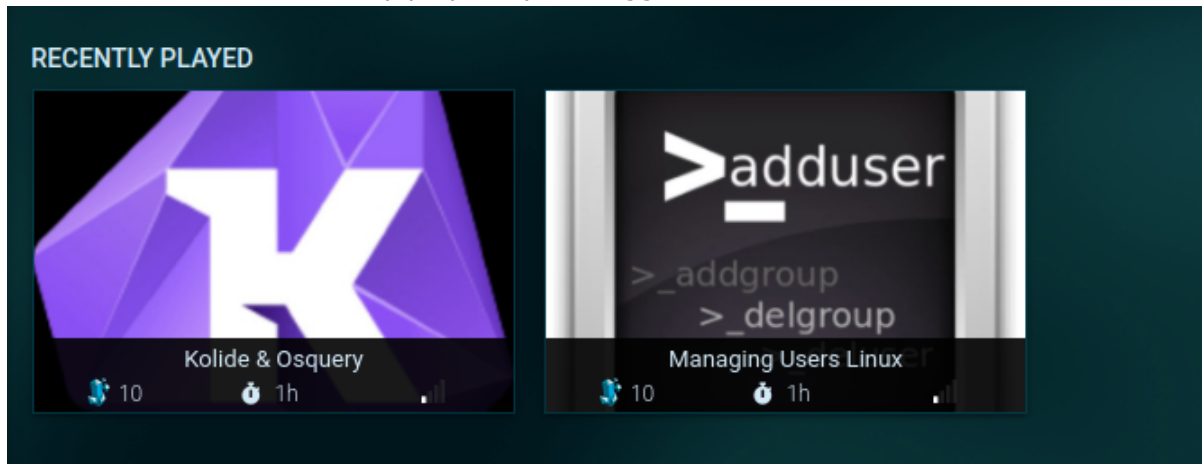
If filter(s) or category was set earlier, a search will be effective based on them. For a clean search throughout all scenarios clear existing the filters.



Back on the Default Library page sections, It has additional sections as follows:

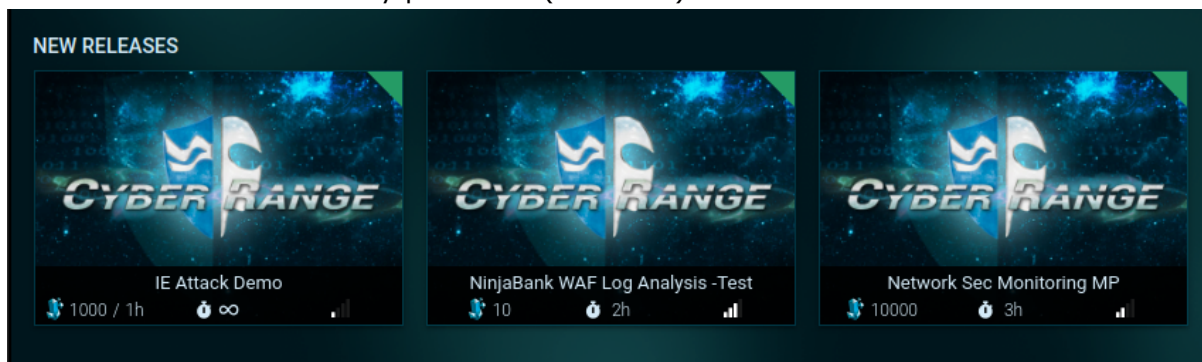
Recently Played

Shows the scenarios recently played by the logged in user.



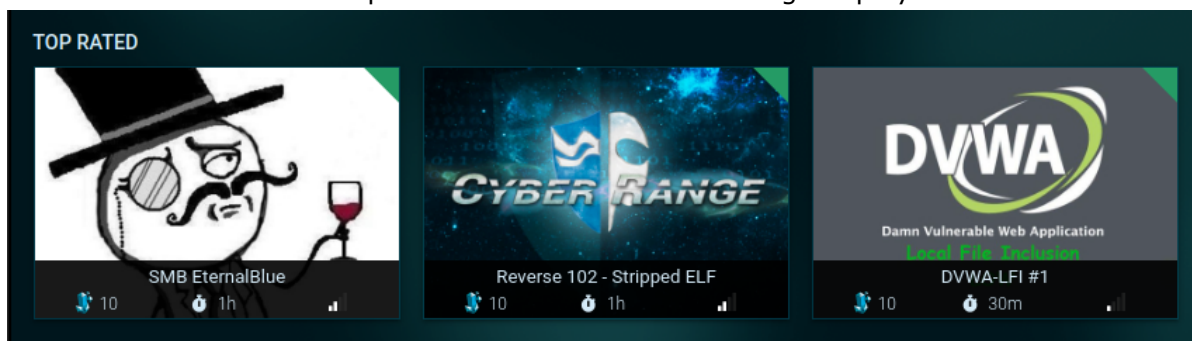
New Releases

Shows a list of most recently published (Released) scenarios.



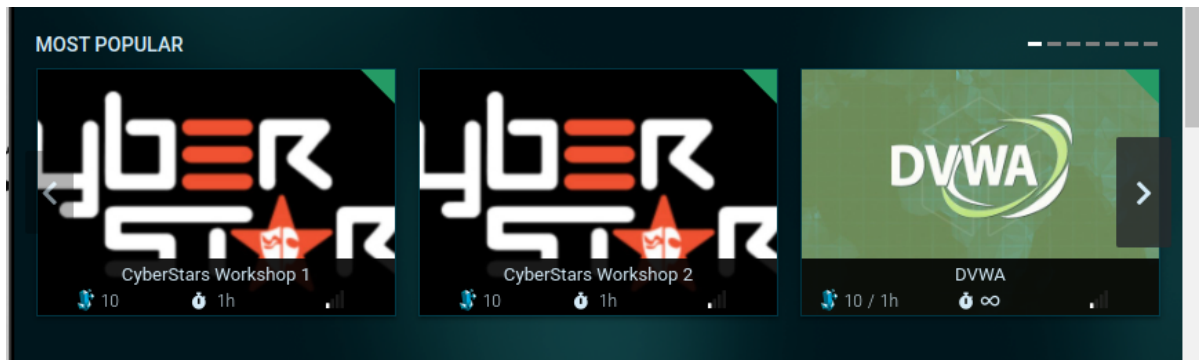
Top Rated

Shows a list of the most top rated scenario from the ratings of players.



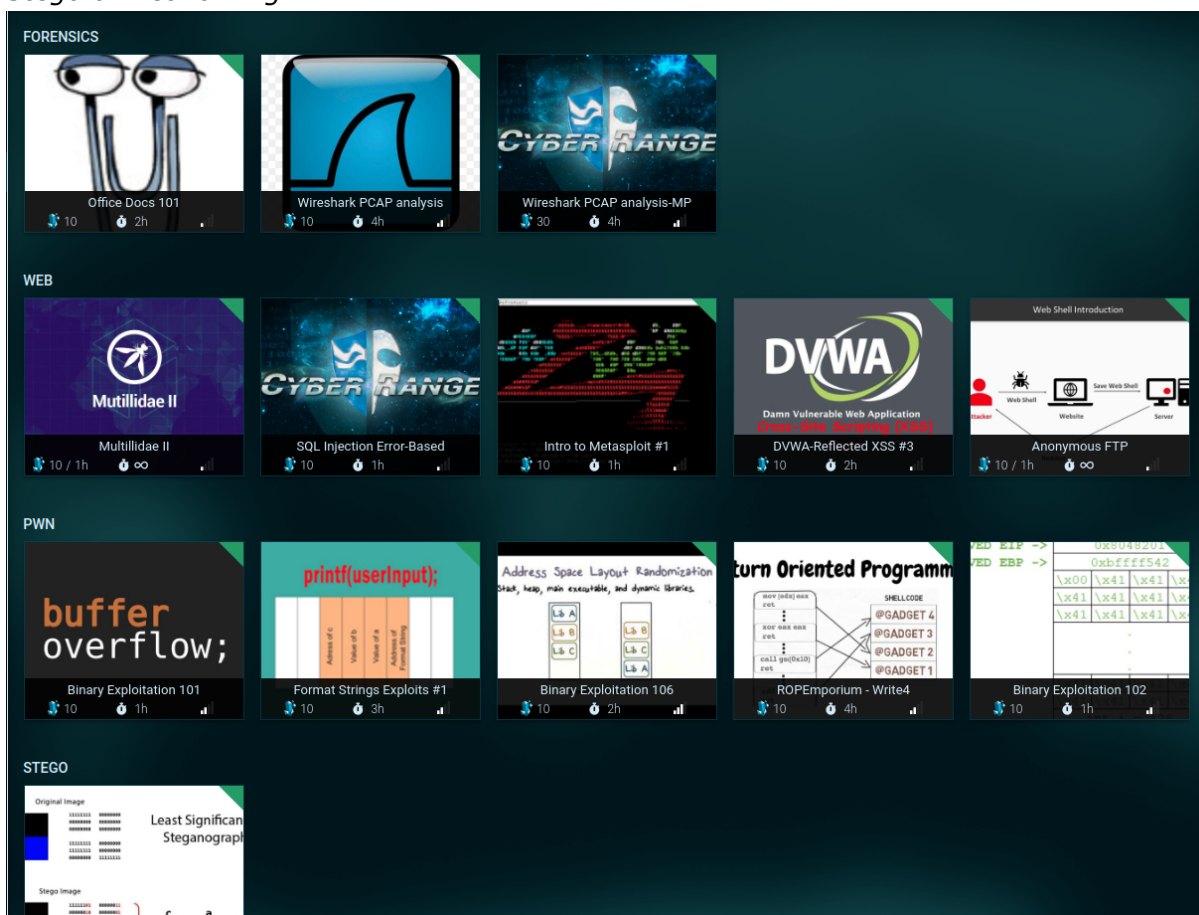
Most Popular


Shows most popular scenarios in cyberranges.



Categories

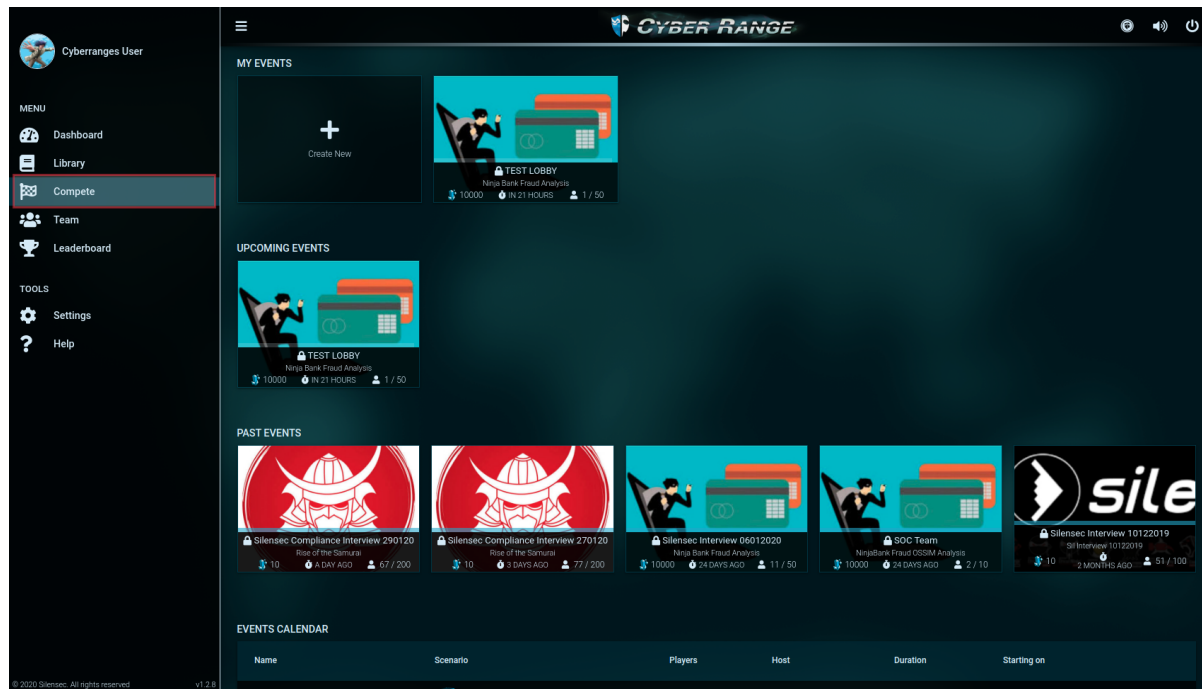
The next session usually shows scenarios based on different categories e.g. *Web*, *PWN*, *Stego* or *Networking*.



NOTE: The icon  On the scenario categories can be used to scroll, to view more scenarios on that category as they are seen in the main Library page.

Compete

The *Compete* tab is where you find scenarios for competing which involve competition, which can be players against each other or teams against teams.

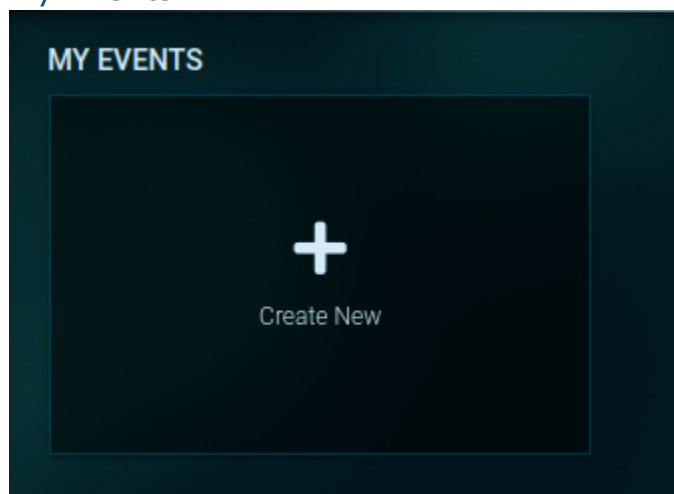


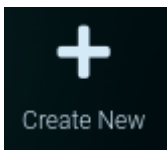
For people to compete, a lobby is created, and it is usually created by the person who created the challenge. So, most users will just need to join an already existing lobby, or create a new one when need be.

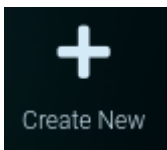
Compete page has the following sections:

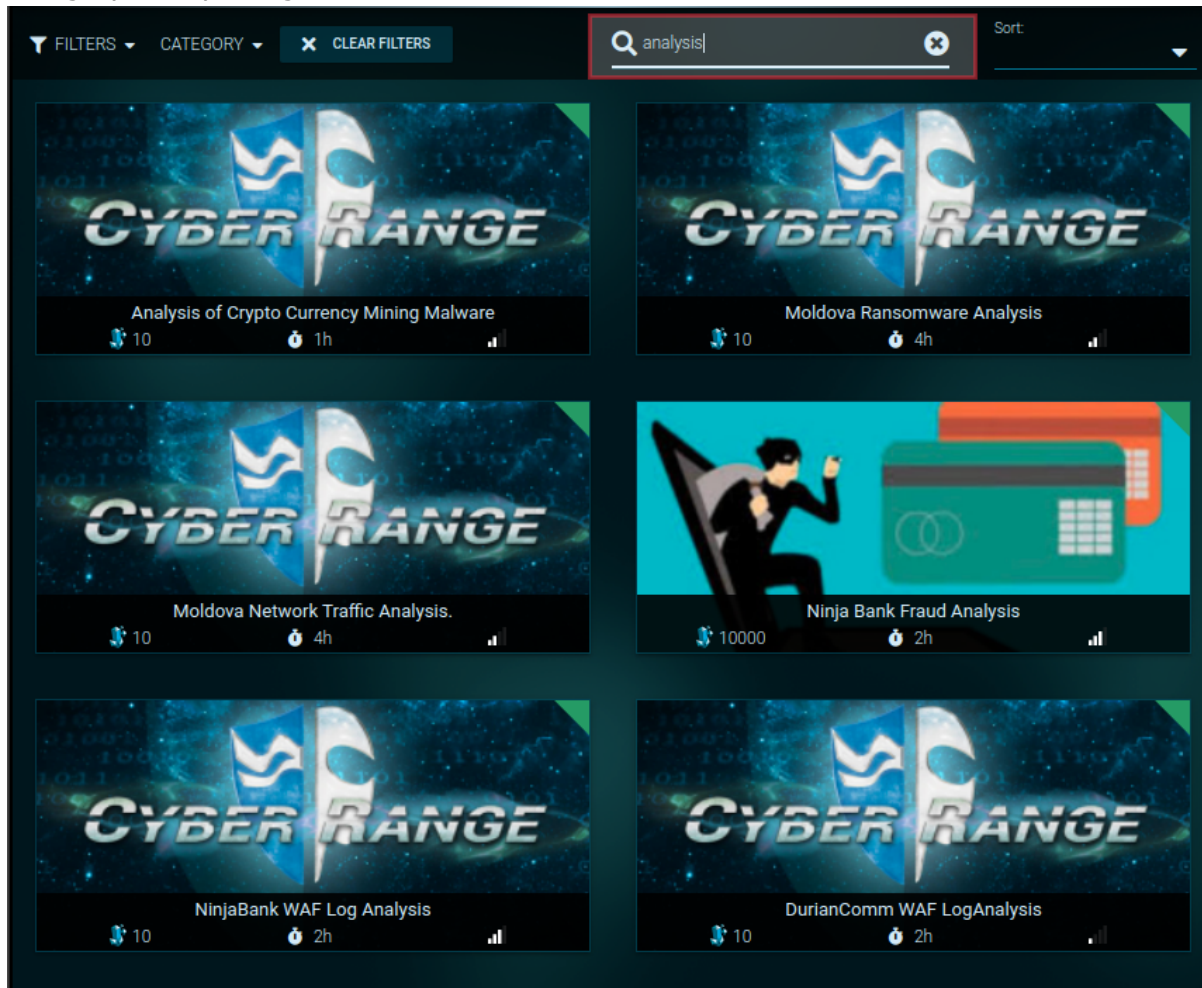
- My Events
- Past Events
- Events Calendar

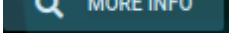
My Events

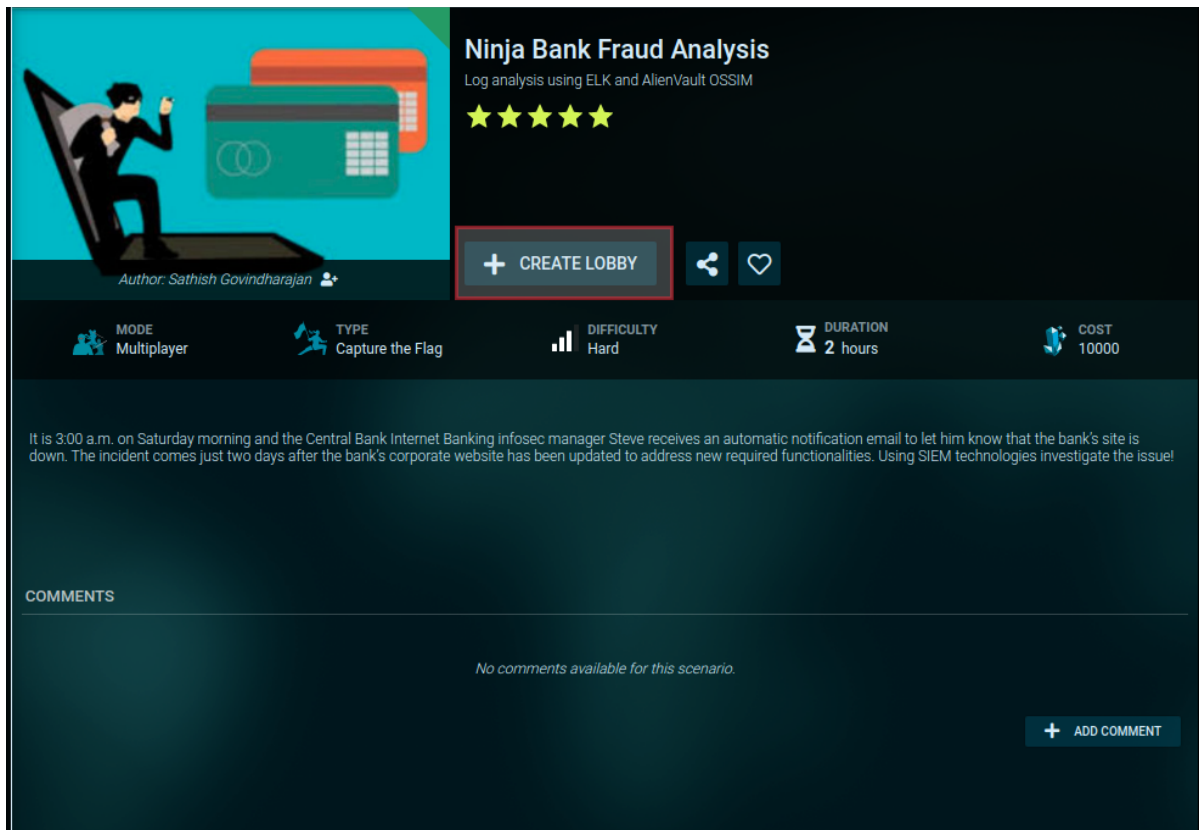


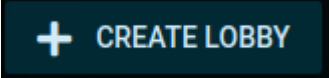


The  icon allows creation of a lobby. Once You click on it it gives a list of all multiplayer scenarios. Just Like in Library, one can choose scenarios based on *Filters*, *Category*, or by using the *search* field.

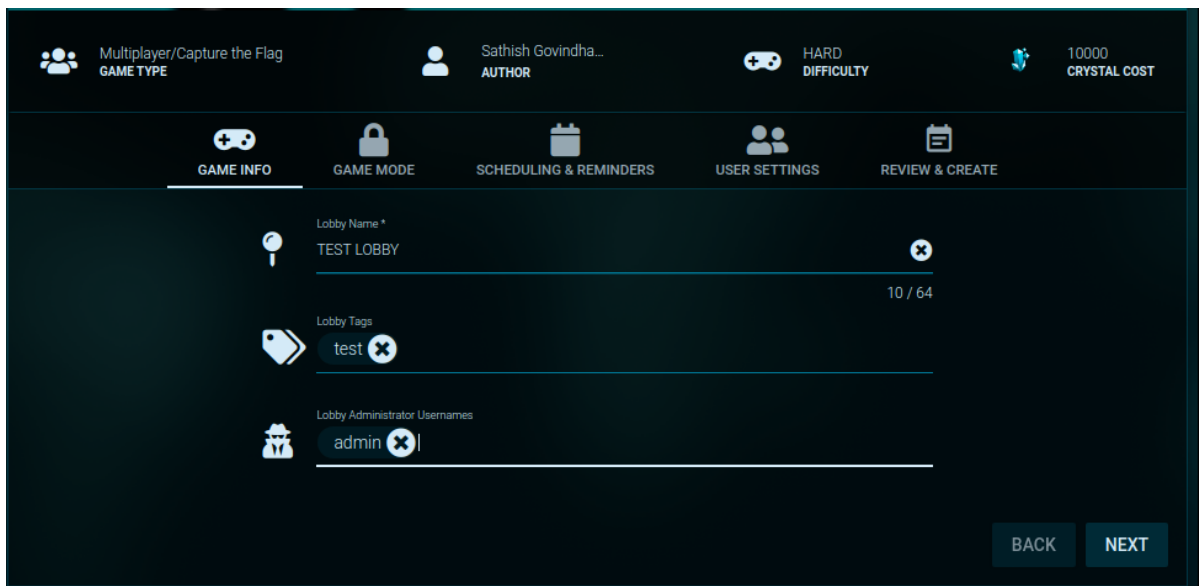


Once you find the scenario of your interest, Hover over it and click on  tab to go to lobby creation page.



Click on  icon to create the lobby and enter lobby details as per your preferences.

- Game Info



Enter Game information:

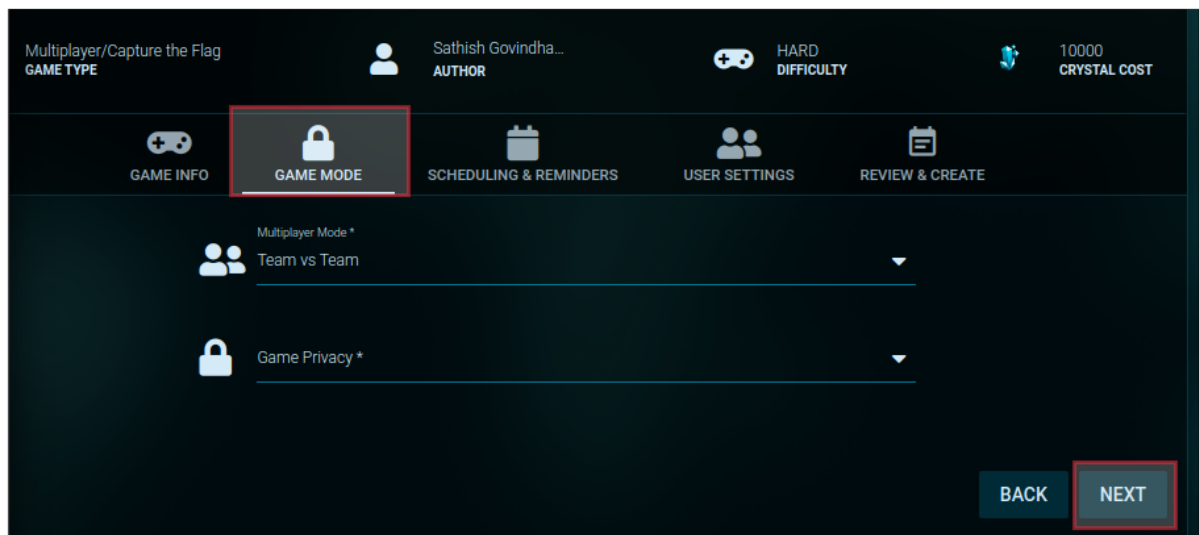
Lobby Name - The Name of the Lobby as it will appear at the events section of compete page.

Lobby Tags - Tags that will be associated with the lobby, Press *enter* after entering lobby tags so that they take effect as shown in the screenshot above.

Lobby administrator Usernames: Press *enter* after entering the username of people who you would want to be administrators in the lobby.

Click Next.

Game Mode



Multiplayer/Capture the Flag
GAME TYPE

Sathish Govindha...
AUTHOR

HARD
DIFFICULTY

10000
CRYSTAL COST

GAME INFO

GAME MODE

SCHEDULING & REMINDERS

USER SETTINGS

REVIEW & CREATE

Multiplayer Mode *

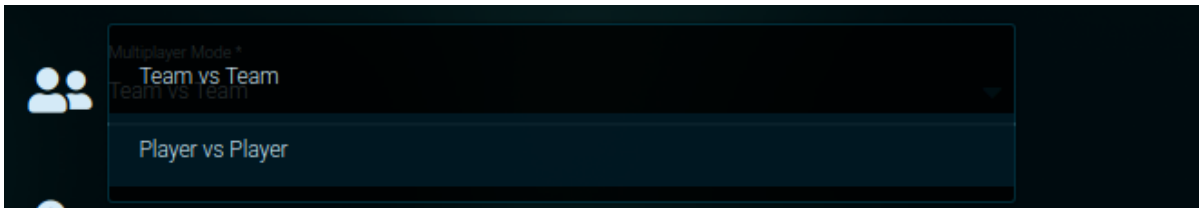
Team vs Team

Game Privacy *

BACK

NEXT

Choose the Multiplayer Mode:

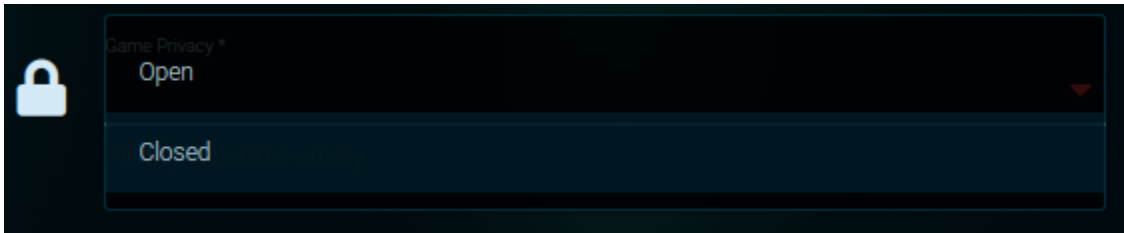


Multiplayer Mode *

Team vs Team

Player vs Player

Choose game Privacy:



Game Privacy *

Open

Closed

Where:

- **Open:** Anyone can join without use of a password.

- *Closed*: Set a password, so that to join the game one will require the password. If *closed* is the choice, you will be required to enter the password to be used.

GAME INFO GAME MODE SCHEDULING & REMINDERS USER SETTINGS REVIEW & CREATE

Multiplayer Mode *
Player vs Player

Game Privacy *
Closed

Lobby Password *
password

8 / 64

BACK NEXT

Click Next.

Scheduling and reminders

GAME INFO GAME MODE SCHEDULING & REMINDERS USER SETTINGS REVIEW & CREATE

Start Date *
2020/01/31 14:00:00

Game Duration
0 Days 2 Hours 0 Minutes

Notify Users

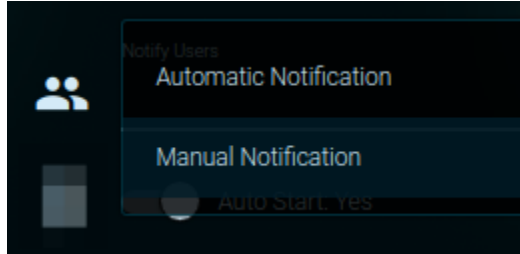
Auto Start: Yes

BACK NEXT

Set the start Date: Clicking on the Drop Down arrow will launch the calendar where you can choose the start date.

Game Duration is set during scenario creation and cannot be edited.

Notify users: Choose the mode of notifying users:



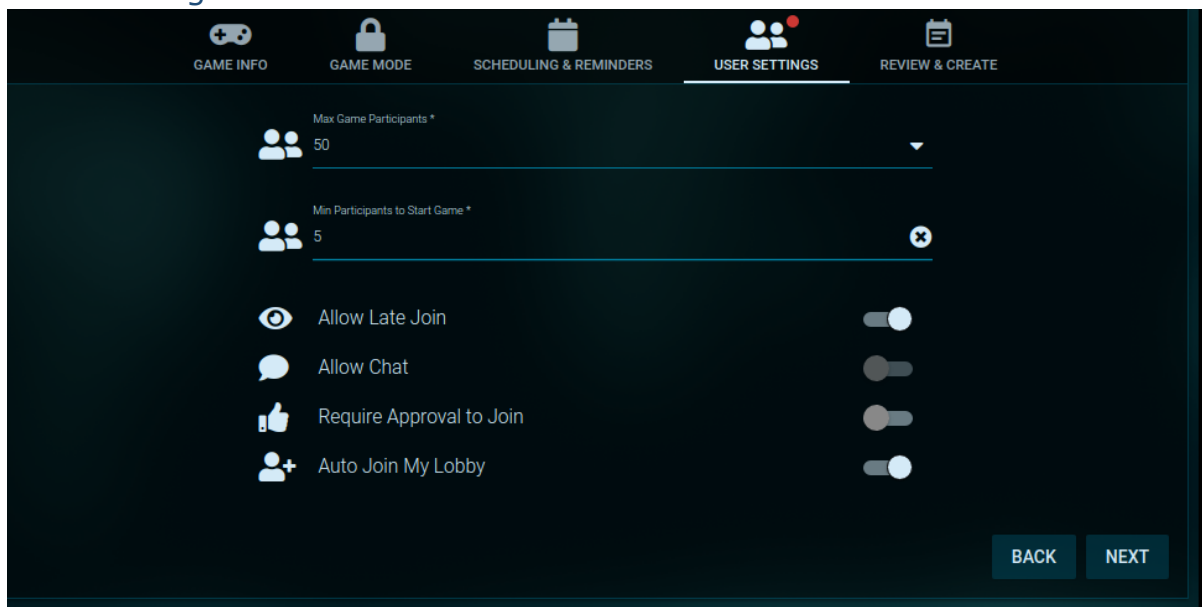
Auto Start: Choose whether to Auto Start or not by toggling the  Icon.

If set to *yes*: The scenario will automatically start at the set time and date.

If set to *No*: The admin will have to manually start the game.

Click Next.


User Settings



Play around with the user settings to set the game preferences as you need or wish.

Max Game Participants: Set the maximum number of participants who can participate in the lobby. (The field cannot be null)

Min Participants to start Game: Set the Minimum Number of participants required to start the Lobby. (Cannot be left empty and cannot be set to 0)

Allow Late Join: Toggle the  icon on whether to allow or not Late joining to the lobby.

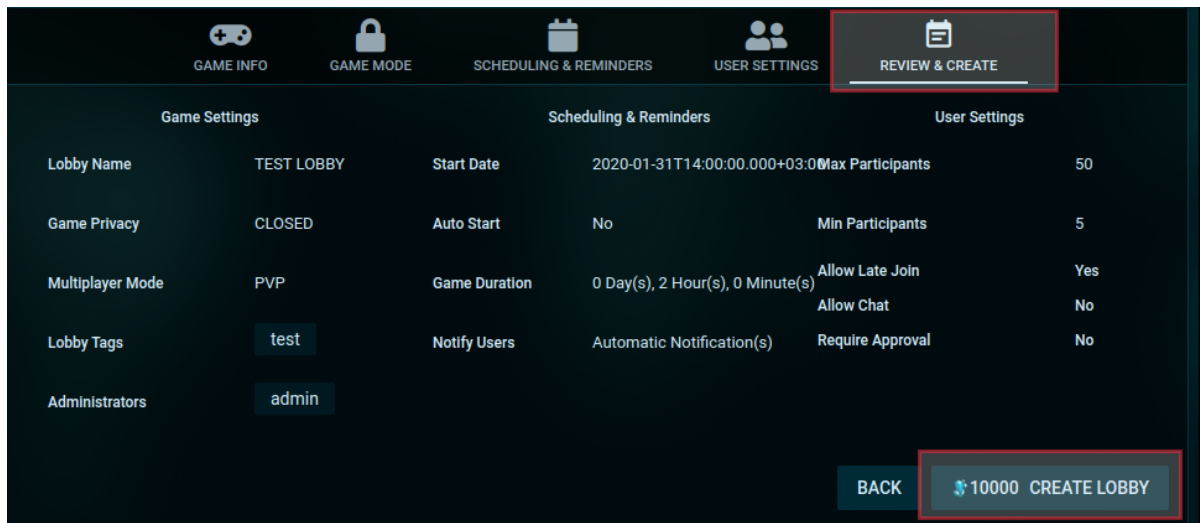
Allow Chat: This is not yet implemented at the time of writing.

Require Approval to Join: Toggle with  icon to choose whether as an admin to approve joining of participants to the Lobby or not.

Auto Join My Lobby: Toggle with  icon to allow auto joining to the lobby or not.

Click Next to Review the settings and create the lobby.

Review and Create




Game Settings		Scheduling & Reminders		User Settings	
Lobby Name	TEST LOBBY	Start Date	2020-01-31T14:00:00.000+03:00	Max Participants	50
Game Privacy	CLOSED	Auto Start	No	Min Participants	5
Multiplayer Mode	PVP	Game Duration	0 Day(s), 2 Hour(s), 0 Minute(s)	Allow Late Join	Yes
Lobby Tags	test	Notify Users	Automatic Notification(s)	Allow Chat	No
Administrators	admin			Require Approval	No

BACK 10000 CREATE LOBBY

Review and verify the settings and create the lobby. Ensure you have the required crystals to create the lobby.

Once Lobby is created, you will see the lobby details and status. As an admin you can share the lobby the link or it can be accessed on compete page under the *Upcoming Events* section.

 <https://app.cyberranges.com/scenarios/lobbies/5e32bc9d960f0320598d3db7>

Upcoming Events

Compete Page After Creating a Lobby

MY EVENTS

Create New

TEST LOBBY
Ninja Bank Fraud Analysis
10000 IN A DAY 1 / 50

UPCOMING EVENTS

TEST LOBBY
Ninja Bank Fraud Analysis
10000 IN A DAY 1 / 50

TCRA Day 4 NSM Lab
Network Sec Monitoring MP
10000 IN 2 HOURS 1 / 50

PAST EVENTS

Silensec Compliance Interview 290120
Rise of the Samurai
10 21 HOURS AGO 67 / 200

Silensec Compliance Interview 270120
Rise of the Samurai
10 3 DAYS AGO 77 / 200

Silensec Interview 06012020
Ninja Bank Fraud Analysis
10000 24 DAYS AGO 11 / 50

SOC Team
NinjaBank Fraud OSSIM Analysis
10000 24 DAYS AGO 2 / 10

Under *upcoming Events*, Shows upcoming Lobbies, Test Lobby created earlier can now be viewed.

Past Events

Past events show expired events, i.e. Lobbies that have already been played and cannot be played again cause the time set is in the past.

Events Calendar

The Events calendar shows upcoming Lobby events and ongoing ones.

EVENTS CALENDAR			
Name	Scenario	Players	Host
TCRA_Day_4_Ossec	OSSEC HIDS MP	35	merlin
TCRA Day 4 NSM Lab	Network Sec Monitoring MP	1	Amos_Mibey
TEST LOBBY	Ninja Bank Fraud Analysis	1	MercyMwikali

Events calendar shows the following details

Name: Lobby Name.

Scenario: Scenario being played in the lobby.

Players: Current number of players who have joined the lobby.

Host: Creator of the lobby.

Team

The team tab shows the teams a user is in. If not it offers the option of Joining a team or creating one.



How to join a team

Selecting Join Team, prompts with a page where it has a list of teams you can join.

Join a Team

Registration Status
Open
Country
Search

Team Name	Captain	Location	Members	Registrations	Score	
Strinlarides		Cyprus	11	Open	0	JOIN
Knight		Uruguay	20	Open	160	JOIN
ninja		Argentina	3	Open	0	JOIN
Atom		Argentina	7	Open	95	JOIN
Hazard		Argentina	5	Open	90	JOIN
GauchitoGil		Argentina	11	Open	165	JOIN
spider		Argentina	5	Open	160	JOIN
Bikers		Italy	4	Open	0	JOIN
CERTUNLP		Argentina	7	Open	165	JOIN
CYCTFTTest		Cyprus	3	Open	0	JOIN

Teams per page: 10
1-10 of 349

This page has some options:

Registration Status

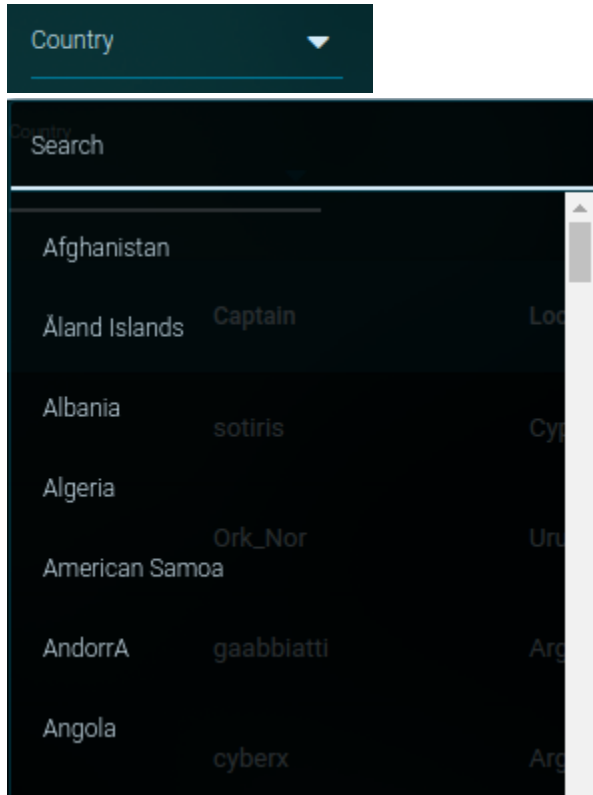
One can choose to filter through the teams to view based on the registration status, which is open, closed or all.

Registration Status
Open

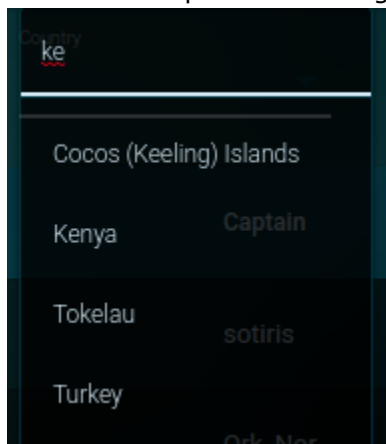
Registration Status
All
Open
Open
Closed

Country

One can choose to filter teams based on the country they are based on:



One has an option searching by country name too.




Search

You can search for a team if you know the name:




Registration Status: Open Country: Kenya

Search: valor

Team Name	Captain	Location	Members	Registrations	Score
 valor	3liud	Kenya	4	Open	0


Teams per page: 10 1-1 of 1

Once you find a team of your choice, click join:






Team Name	Captain	Location	Members	Registrations	Score
 valor	3liud	Kenya	4	Open	0

Once you join you will view the team statistics.

REGISTRATIONS OPEN MEMBERS 5 LEAVE TEAM

 valor
No one is safe
Kenya

0 TEAM SCORE

#	Member	Rank	Score
1		Captain	0
2		Recruit	0
3		Recruit	0
4		Recruit	0
5	 cyberranges_user	Recruit	0

Members per page: 10 1-5 of 5

At the far right corner there is an option of leaving the Team.

REGISTRATIONS OPEN	MEMBERS 5	LEAVE TEAM
--------------------	-----------	------------

One can only be a member of one Team. So to join or create a team, you have to leave the one you currently a member of.

Creating a Team

If you are not a member of any team, select Create team to create a team, if you are already a member of another team and you want to create your team, Leave the current team first.

Choose the Team Avatar of your choice from the provided List.



Edit team Details as shown Below:

TEAM INFORMATION

Team Name
Cyberranges Team

Team Motto
Cyberrangers

Country
Q Kenya

Registrations
Open

Team Description
Cyberranges Force

CANCEL CREATE

The Team details include:

- *Team Name*
- *Team Motto:*
- *Team Country:* Type the country name and select it from the list that appears
- *Registration:* set to open or closed. Open allows other users to join the team. If set to close other users will not be able to join the team.
- *Team Description:* a brief description of the Team.

Click Create once done:

REGISTRATIONS **OPEN** MEMBERS 1 **DISBAND TEAM**

Cyberranges_Team

Cyberrangers


📍 Kenya

Cyberranges Force!

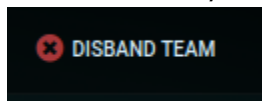
0
TEAM SCORE

#	Member	Rank	Score
1	cyberranges_user	Captain	0

Members per page: 10 ▼ 1 - 1 of 1 < 1 >

As the Captain of the Team you can still edit team name and avatar by clicking the  icon.

As the creator you have the option of disbanding the team.



Leaderboard

The Leaderboard tab shows the users rank and their team rank. It also shows other users and Teams ranks.

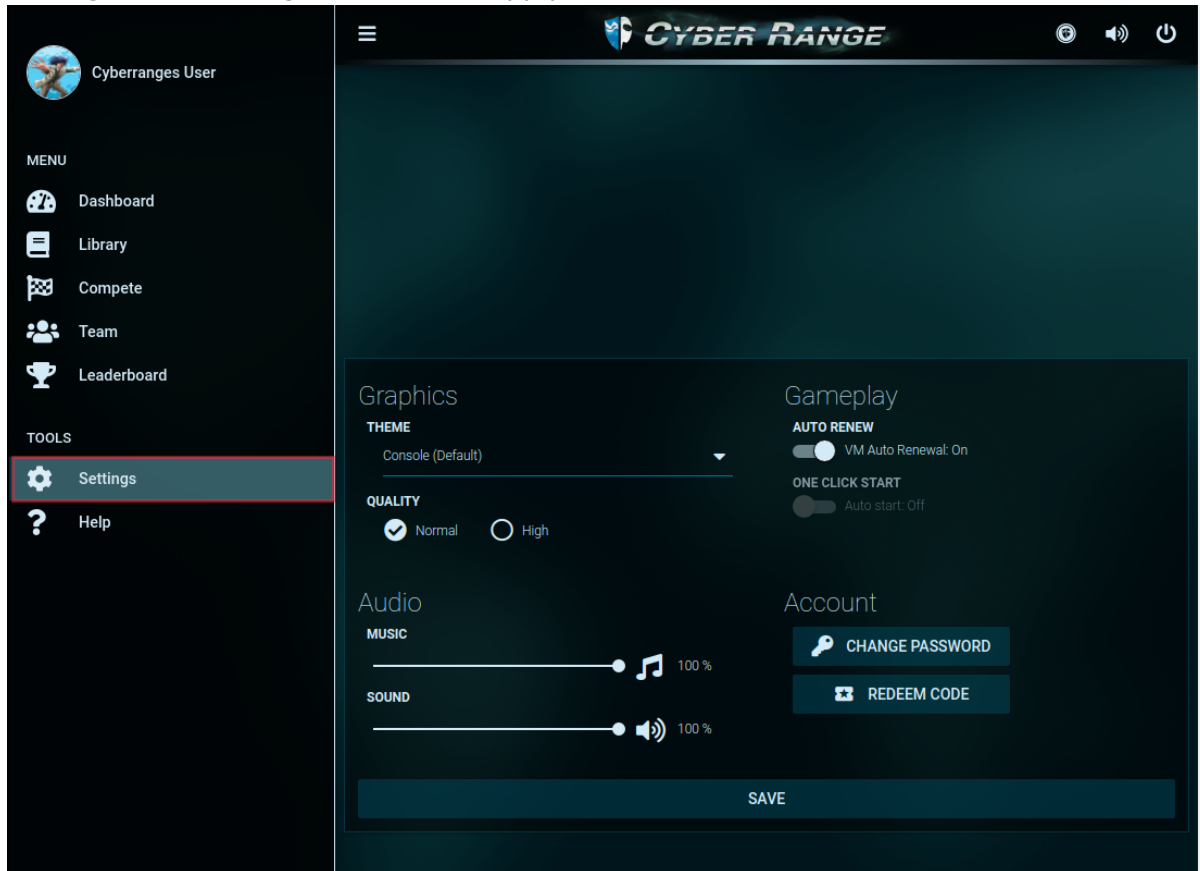
The screenshot displays the Cyber Range user interface. On the left is a dark sidebar with a user profile 'Cyber Range User' and a menu including Dashboard, Library, Compete, Team, and Leaderboard (which is highlighted). Below the menu are tools for Settings and Help. The main content area has a top header with the 'CYBER RANGE' logo and user controls. Below this, two boxes show 'N/A' for 'YOUR RANK' and 'YOUR TEAM RANK'. A tab bar below these shows 'USERS LEADERBOARD' (selected) and 'TEAMS LEADERBOARD'. The main area displays a table of user rankings.

Rank	Username	Score
1	[Profile Icon]	11805
2	[Profile Icon]	11140
3	[Profile Icon]	7780
4	[Profile Icon]	7435
5	[Profile Icon]	6261
6	[Profile Icon]	5600
7	[Profile Icon]	5535
8	[Profile Icon]	5360
9	[Profile Icon]	5076.5
10	[Profile Icon]	4900

At the bottom right of the table, there is a pagination control: 'Users per page: 10' and '1 - 10 of 100', with navigation arrows and page numbers 1, 2, 3, and 10.

Settings

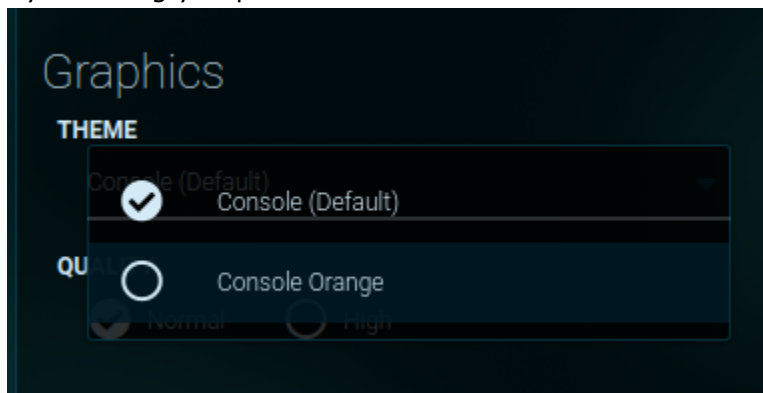
Settings allows configuration of the app preferences.




From Settings you can configure:

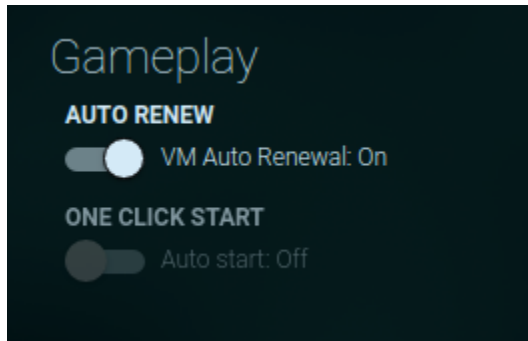
Graphics

By choosing your preference Theme:



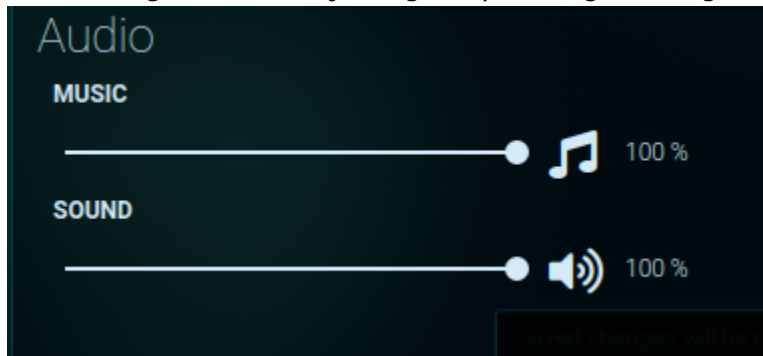
Gameplay

By Toggling  Auto renewal on and off will enable or disable automatic renewal of Virtual Machine Time.



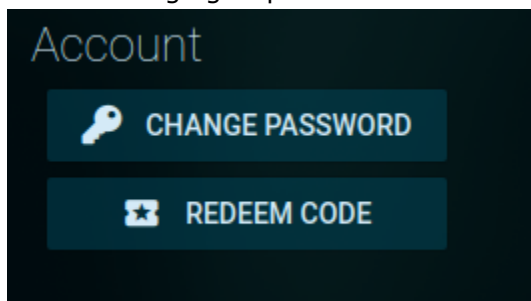
Audio

This settings enables adjusting of cyberranges background music and audio



Account

Allows changing of password and redeeming of Code.

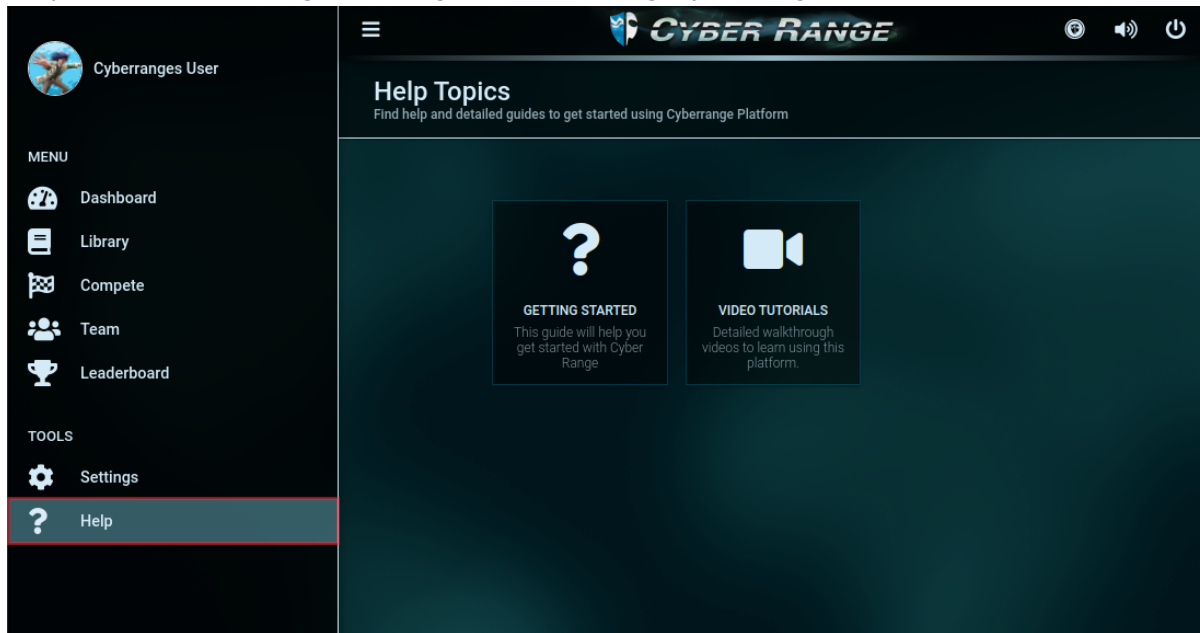


SAVE


Once done with the configurations, click  to save your changes.

Help

Help tab has detailed guides to get started using Cyberranges Platform.



NOTE:

After selecting the item of your preference you can collapse the panel by clicking the  icon at the top near Cyber Range Title.

In case you need more help, email support@cyberranges.com