



## Stage 1 Briefing

Organised by



**iTrust**  
Centre for Research  
in Cyber Security

Supported by



# Agenda

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- Welcome address      ME6 William TEO, Ministry of Defence,  
Singapore
- Briefing                Francisco FURTADO, iTrust
- Q&A
- End

The SEVENTH INTERNATIONAL



# Opening Remarks

***ME6 William Teo, MINDEF***

CRITICAL INCIDENT STRESS SUPPORT  
SECURITY SHOWDOWN 2023

# CISS 2023 Organising Team

## Event Directing



Prof. Aditya MATHUR



Prof. Jianying ZHOU



Col. TAN Shengyang

## Judges



ME6 William TEO



Delaney NG



Matthias YEO

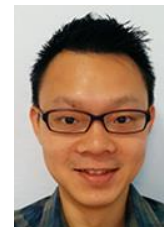


CHONG Rong Hwa

## Organising Secretariat



ME4 Benedict TAN



Mark GOH

# CISS 2023 Stage 1 Organising Team

**iTrust**  
Centre for Research  
in Cyber Security



## Stage 1 Team



Francisco FURTADO



Tiger LIM



TEO Xu Kai



TEO You Xiang



Andy TAY



Mavis ANG



LIU Yuencheng



Hannah OEI



Felix WONG

# Stage 1: Timeline

Day	Date	Time (GMT+8)	Event
Thu	06 Jul	1600	Stage 1 Briefing
Tue - Thu	11-13 Jul	48 hrs from 0800	Stage 1
Fri	TBC	TBC	Announcement of Stage 1 Results
Fri	21 Jul	1600 - 1700	Finals briefing

# Stage 1: Gather the Fellowship

## Scenario

- Join the Fellowship on their epic journey from the Shire to Rivendell, as they strive to destroy the One Ring and save Middle-earth to ***Let OT Reign***. Along the way, the Fellowship will encounter numerous challenges, and they will rely on your assistance to overcome them.
- If you prove successful in aiding them, the **top 10 Fellowships** will achieve victory and progress to greater challenges in the **Finals on 18, 21 - 24 Aug 2023**



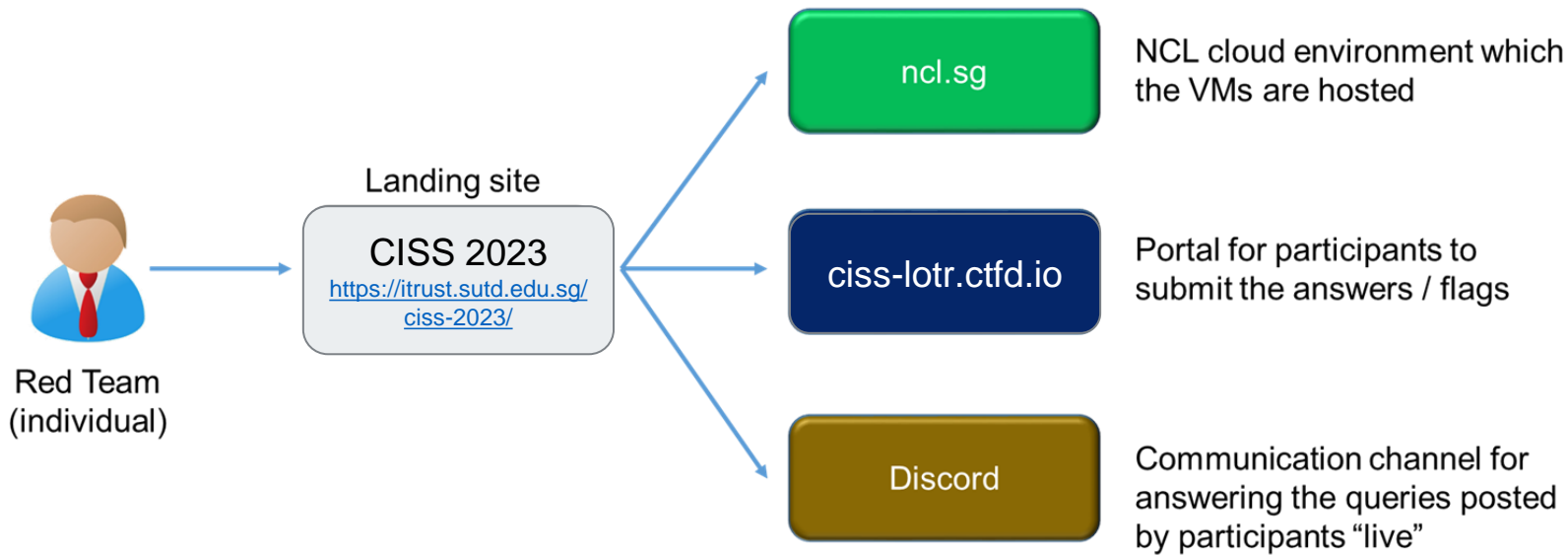
# Stage 1: Gather the Fellowship

## Format

- Tuesday, 11 July 0800 hrs to Thursday, 13 July 0759 hrs (GMT+8)
- 8 persons of concurrent playtime per team
- LOTR-FOTR themed Jeopardy CTF format
- CTF Platform (ctf.d) (<https://ciss-lotr.ctfd.io/>)
- Discord for communications (<https://discord.gg/XVZBz3rq4H>)
- Team are ranked by number of points (ties broken by time)
- The top 10 teams will take part in the Finals between 18-24 August
  - Organisations that have more than 1 qualifying team, only 1 enter the Finals



# Mode of Stage 1 Competition



# Ground Rules

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1. ALL flags in this are in the form of '**ciss23{.....}**' E.g. ciss23{read\_carefully\_here}
2. **Do not cheat.** This includes, but is not limited to:
  - a. Sharing of flags or solutions with other teams, Brute-forcing any flags, Seeking help from other parties beyond general internet research
3. **Do not engage in disruptive behaviour.** This includes, but is not limited to:
  - a. launching denial of service attacks or launching cyber attacks on other teams;
  - b. delete, modify, replace, or break the flags, services, and challenges (aside from the intended ones);
  - c. illegal, immoral or unethical conduct.
4. **Report any bugs found** on the CTFd platform via the contact email or Discord immediately.
5. If there are any suspicious activity, **teams will be requested for a video conference** to walkthrough the challenges.
6. Teams and participants found to be cheating **will be disqualified.**

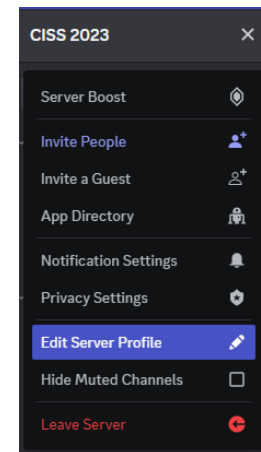
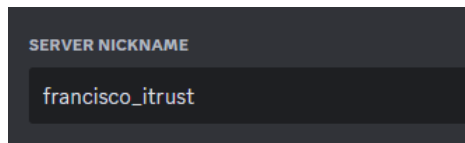
# Discord for Communication

1. Join the Discord for communications
2. Add your **team name as a suffix** to your server nickname  
(e.g. Francisco\_iTrust)
3. Each team will be given a channel to communicate with the admins
  - You are free to use this channel or any other platform for communication among members
4. Please join by the end of the day
5. If you face any issue in joining the Discord, please email

[cyberex@sutd.edu.sg](mailto:cyberex@sutd.edu.sg)



<https://discord.gg/XVZBz3rq4H>



# Ticketing System

CISS 2023

# ticketing-system

# welcome 🙌

HOME

# rules-of-the-rings 🚫

# ring-memes 🕒

# support 🆘

CTF-CATEGORY

# general **NEW**

# memes **NEW**

# ticketing-system 👤

## #

### Welcome to #ticketing-system!

This is the start of the #ticketing-system channel. Raise a ticket if you need help, and our friendly hobbits would get back to you soon! ⚡🛠️

June 26, 2023

**MEE6** **BOT** Yesterday at 11:30 AM

How can we help?

Welcome to our tickets channel. If you have any questions or inquiries, please click on the 'Open ticket' button below to contact the staff!

**Open ticket**

# Ticketing System

The screenshot displays a Discord channel named "#1-ifyouaretea" within the "CISS 2023" server. The channel header includes navigation icons for home, search, and help, along with a search bar. The left sidebar lists various channels: #welcome, #rules-of-the-rings, #ring-memes, #support, #general (NEW), #memes (NEW), #ticketing-system, and #1-ifyouaretea (CREATED TICKETS).

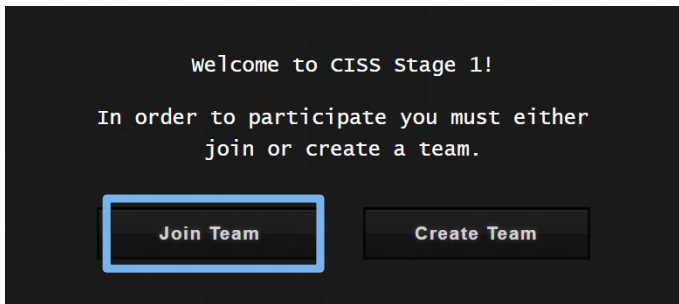
The main content area features a large "#1-ifyouaretea" header and a welcome message: "Welcome to #1-ifyouaretea! This is the start of the #1-ifyouaretea channel. Ticket #1 - Type: Open ticket - Created by: @ifyouaretea". A date separator for "June 27, 2023" is visible, followed by a "NEW" badge.

A message from the bot "MEE6" (BOT) is shown, stating: "Your ticket has been created. Please provide any additional info you deem relevant to help us answer faster." Below the message are four buttons: "Claim", "Close", "Reopen", and "Delete".

A pinned message from "MEE6" is also visible, stating: "MEE6 pinned a message to this channel. See all pinned messages." The timestamp for this message is "Today at 3:24 PM".

# CTF.D Platform

- Register on the CTF.D <https://ciss-lotr.ctfd.io/>
  - a. Use Registration Code: *Shire!Baggins!*
  - b. Create/Join a team
- Complete this by Mon, 10 July so that you will be ready for the CTF
- At Tue, 11 July 0800 (GMT+8), the challenges will be unlocked for you.



**Register**

**User Name**  
  
Your username on the site

**Email**  
  
Never shown to the public

**Password**  
  
Password used to log into your account

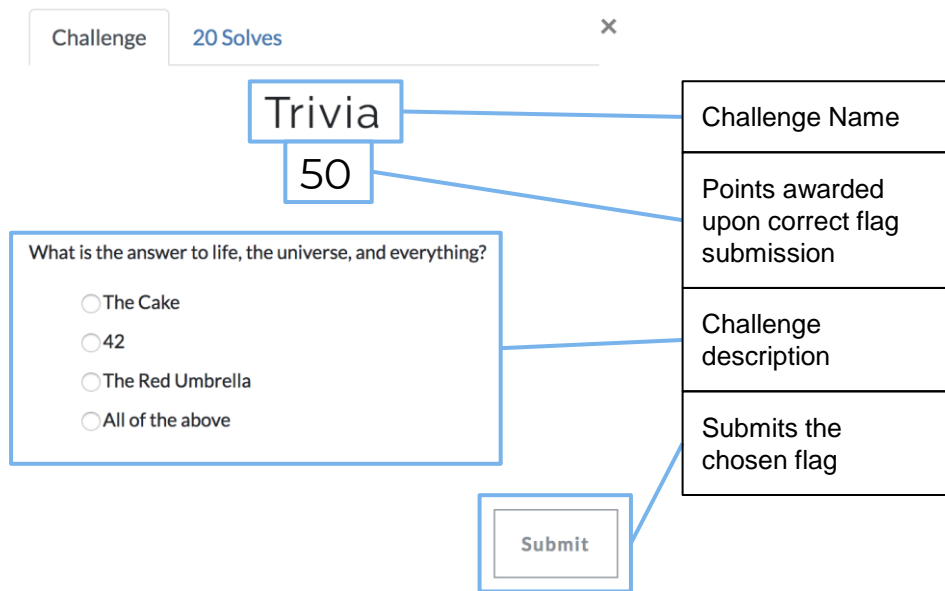
**Registration Code**  
  
Registration code required to create account

**Submit**

This image shows a registration form with a dark background. The title 'Register' is at the top. There are four input fields: 'User Name', 'Email', 'Password', and 'Registration Code'. The 'Registration Code' field contains the text 'Shire!Baggins!'. A 'Submit' button is at the bottom right, highlighted with a blue border. Navigation arrows are visible in the bottom right corner.

# Challenge Types

- Classic Multiple Choice Questions
- Max 2 attempts
- 2nd attempt is valued at 25 points



# Challenge Types

- Standard Questions
- Hints have been curated to be useful

The screenshot shows a challenge interface with the following elements:

- Challenge Title:** "Too Many Puppies" with a score of "100".
- Description:** "Here is a zip file full of just the finest little pippers. Can you find the hidden flag in the pile of pupper pictures?"
- Hint:** "The answer is `f1ag(0h_y0u've_found_me)`".
- Connection:** A text box containing "puppies-server".
- Unlock Hint:** A button labeled "Unlock Hint for 20 points".
- Download:** A button with a download icon and the text "puppy.zip".
- Flag:** An input field labeled "Flag".
- Submit:** A button labeled "Submit".

Annotations on the right side of the interface:

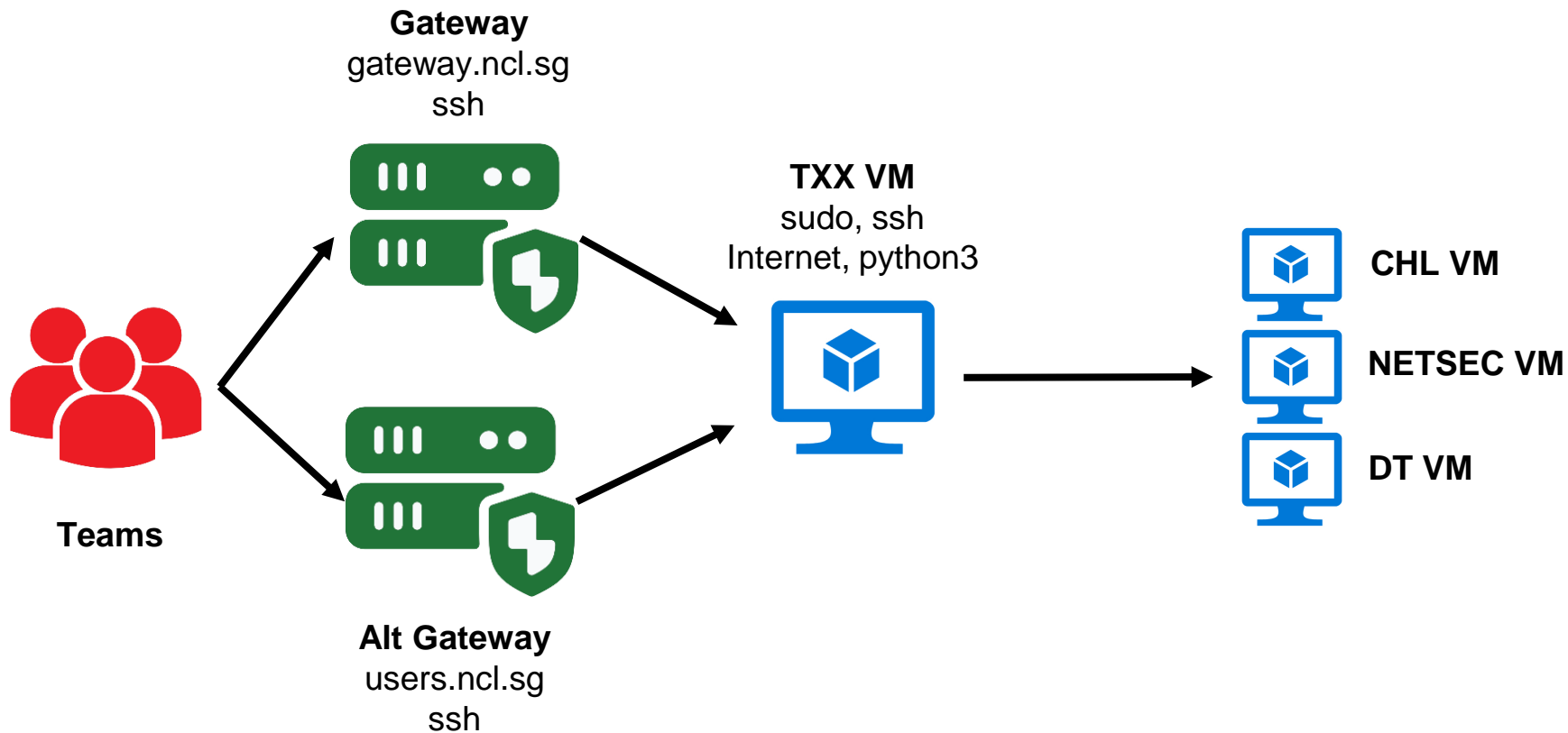
- Contains connection info (points to the Connection text box).
- Hints to unlock. Number is the cost of unlocking points (points to the Unlock Hint button).
- File to download (points to the puppy.zip button).
- Input field to enter the flag you've found. Usually case sensitive (points to the Flag input field).

# Stage 1: Challenges

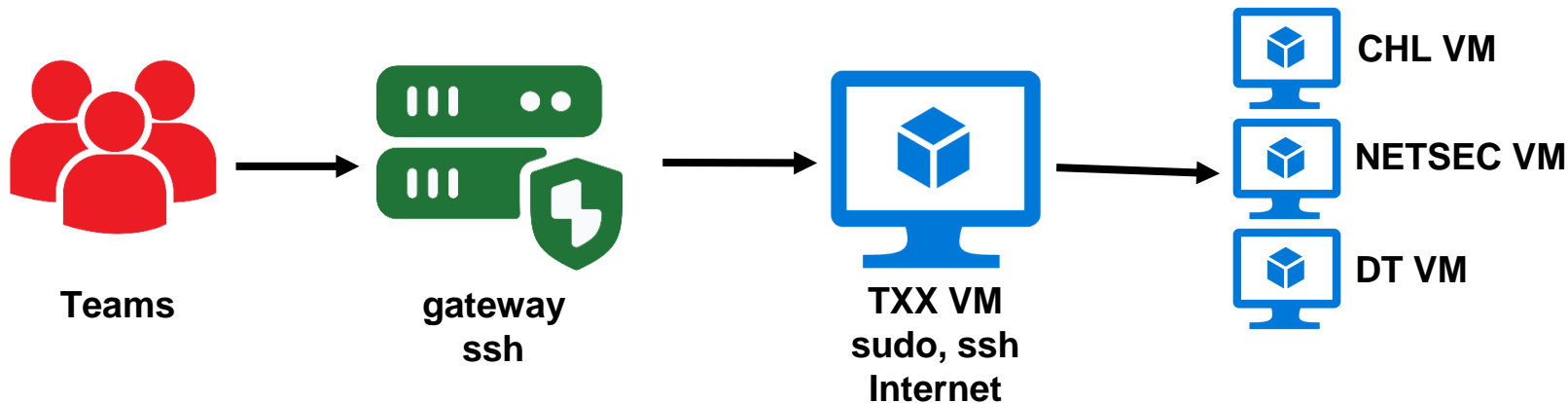
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- 10 MCQ
  - 1st attempt: 50 points
  - 2nd attempt: 25 points
- Standard Questions
  - 75 points - 250 points
- Total Points
  - Up to 3500 points

# Connection Details



# Connection Details



MobaXterm

Windows: Recommended to use [MobaXterm](#).

Mac/Linux: Recommended to use [RoyalTSX](#).

\*You are free to use any other ssh clients or native terminals.



royal ts

Set jumphost settings in Network settings of Session settings. Credentials will be sent in the Discord channel.

# Example

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**11 0750 HR: Credentials Shared**

**11 0800 HR: Challenges Opened**

## **Team 01 Connection Info**

### **# gateway**

Username: *[username]*

password: *[password]*

### **# TXX vm:**

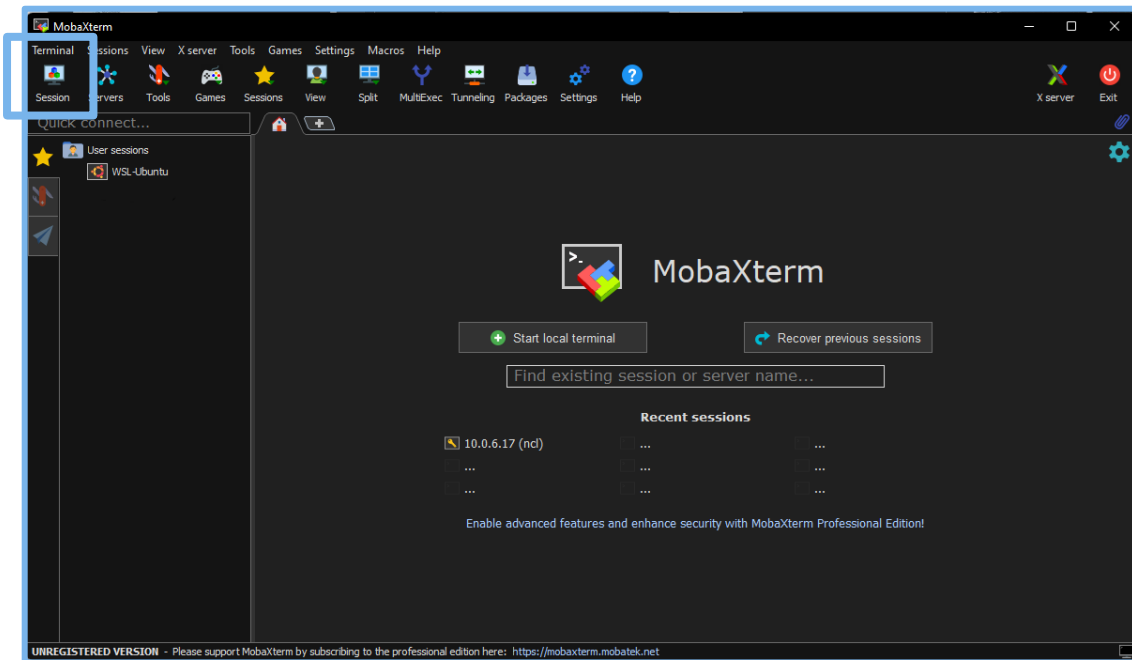
ssh -p 10001 -J *[username]*@gateway.ncl.sg cissred@172.18.178.10

# password: *[password]*

# Connection Details



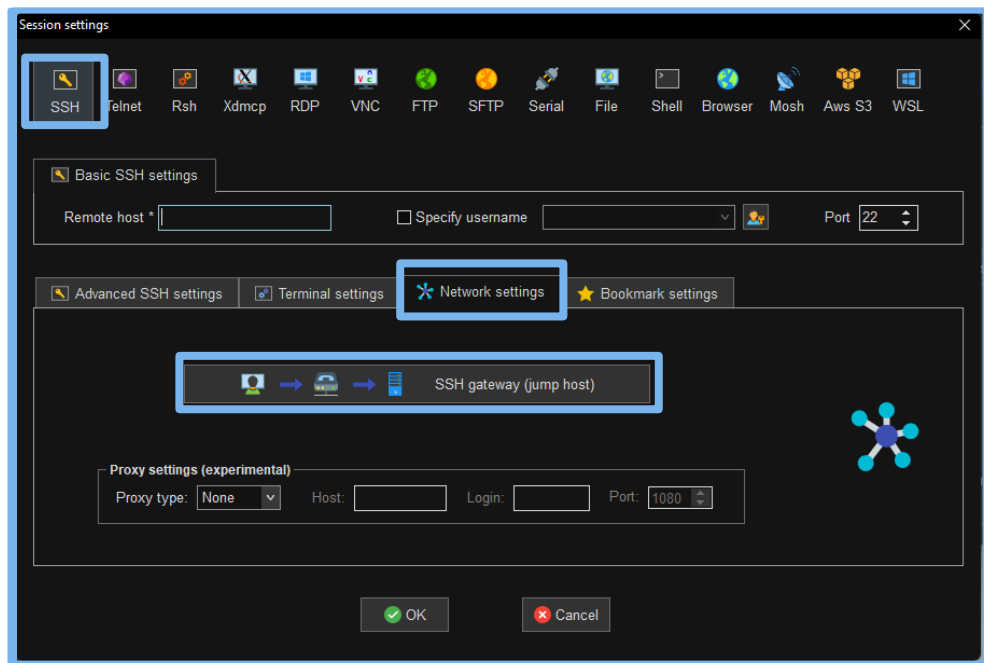
Recommended to use MobaXterm. Set jump host settings in Network settings of Session settings. Credentials will be sent to your channel.



# Connection Details



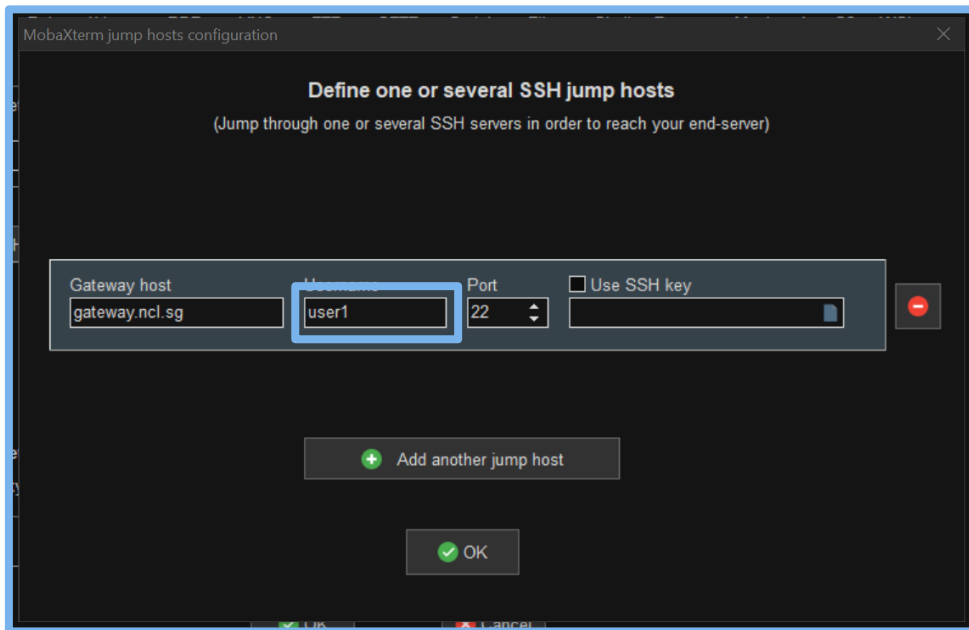
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# Connection Details



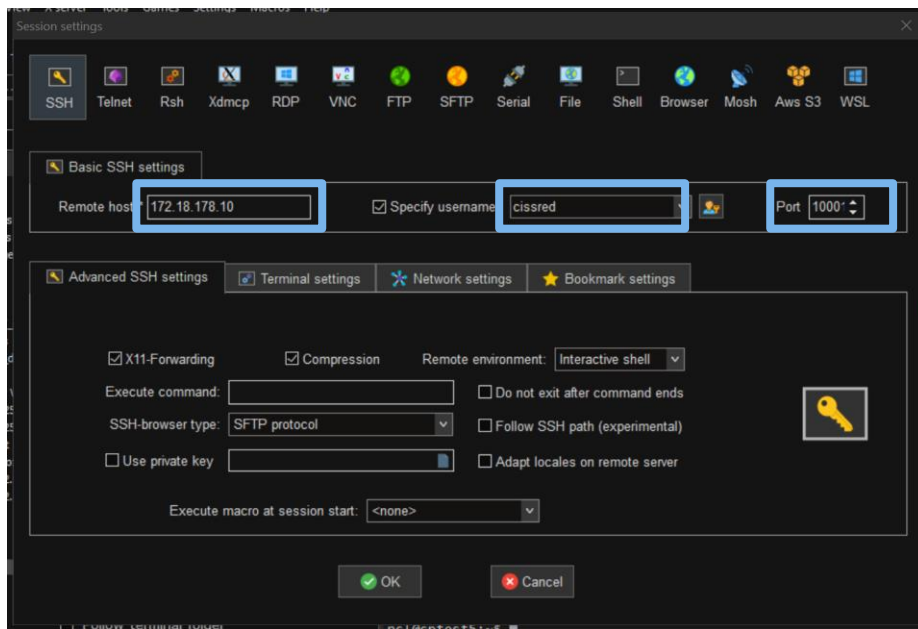
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# Connection Details



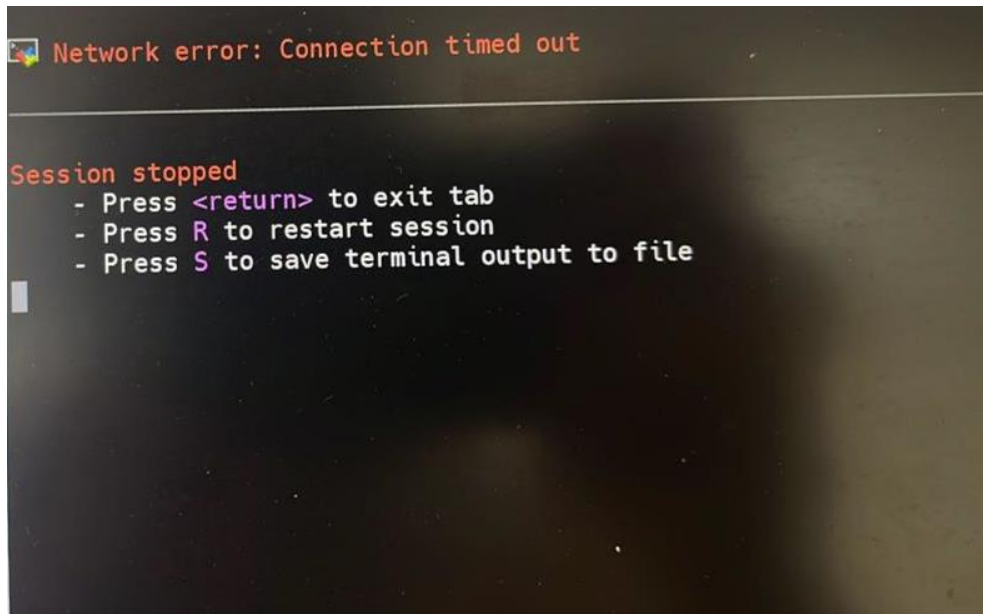
Recommended to use MobaXterm. Set jumphost settings in Network settings of Session settings. Credentials will be sent to your channel.



# Connection Issues

Connection issues may look like this:

Create a Discord ticket immediately



```
Network error: Connection timed out

Session stopped
- Press <return> to exit tab
- Press R to restart session
- Press S to save terminal output to file
```

# Summary

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1. Join the Discord. <https://discord.gg/XVZBz3rq4H>
  - a. Add your team name to your server nickname. (e.g. Francisco [iTrust])
2. Register on CTF.D using Registration Code: DIStesting
  - a. Create/Join a team with a password
3. Tue, 11 0750 (GMT+8), all teams will be given access to test connection
4. Tue, 11 0810 (GMT+8), challenges on CTF.D will open

# FAQ

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## **Q: What do I need to prepare? Recommended operating system or tools?**

A working laptop or desktop with any peripherals you require and Internet connection. All the challenges are OS agnostic but may be easier in a particular OS. Consider installing your favourite text editor, programming languages, IDE(s), reverse engineering tools and network analysis tools installed.

## **Q: Are any VMs provided with prepared tools?**

We only provide a VM (“TVM”) with Python3 installed to access the services required for the challenges. Teams may install the necessary tools/packages on the VM.

## **Q: Do you allow all team members use the same account/password to log in the jumphosts and TVMs?**

Yes, all 4 team members are allowed to use the same account to log in the host and TVMs at the same time, but one member’s action may make influence of other members work under this situation.

# FAQ

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## **Q: Do you allow all team members change account/password to log in the host and TVMs?**

Team's login account is not allowed to be changed. A random login password will be sent to each team at the beginning time, and you are allowed to change the password. But if you forget your password after changed it, we will not help you reset the password. A new TVMs will be created for you in the next hour. (If you changed your password and lost it, your work in the previous TVM will not be transferred to the new TVM)

## **Q: If I break the TVM or make it not ssh accessible, will my previous work be transfered the new TVM?**

No. If you shutdown the TVM, we will help you power up. But if you break the OS or disable the network manager which make the system not accessible, we will shutdown the old TVM and create a "empty" new one.

# FAQ

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**Q: Do all members need to register?**

A: Yes, all members should be registered in Discord and CTF.D

**Q: Can members of a team be changed after the registration cut off?**

A: No, once registration is closed, team composition should not change

**Q: Is there a winner for each challenge/category?**

A: No, winners are decided based on the overall score, subject to follow-on verification.

**Q: Can some members of a team leave the competition after a while?**

A: Yes but full attendance is encouraged.

# Q&A

# KEEP CALM AND CYBER EXERCISE

CISS 2023 Committee

