

SAIC

STE SMTP Kit

Step by Step setup guide

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Table of Contents

Step 1: Unpacking and Setup of Physical Components	2
Step 2: Laptop setup	4
Step 3: Meta Quest 3 Headset Setup	7
Step 3a: Entering the Meta Quest 3 Link Room	8
Step 4: Xbox Elite Controller Setup	10
Step 5: TP-Link Omada Network Switch Setup.....	10
Step 6: VBS4 Setup	12
Step 6a: Client Laptop Configuration (Basic Launch) (Default)	12
Step 6b: User Laptop with Meta Quest 3 HMD Configuration (Basic Launch) (Default) ..	14
Step 6c: Server Laptop Configuration (Admin).....	16
Step 7: Setting up the Battlespace.....	18
Step 8: Starting and connecting to VBS4 Session (User)	19
Step 9: Start the Battlespace Scenario after ALL users have joined	21
Step 10: Running VBS4 via Meta Quest 3.....	23
Step 11: Restart the Scenario from the Admin machine	23
Step 12: Change Battlespace from Admin Machine	25
Step 13: Close VBS4 and shut down laptops via software.....	27
Step 14: Importing Battlespace Scenario into VBS4 from Google Drive Link.....	28
Troubleshooting Common Issues	32
Appendix A: “Admin” profile settings	33
Appendix B: “User” profile settings	33
Appendix C: To update the Meta Quest 3 HMD.	33



Figure 1: STE SMPT Full Kit

Step 1: Unpacking and Setup of Physical Components

- 1.1 Open the lid by undoing the eight (8) clips that secure the kit box.
- 1.2 Remove the laptops. Position the three user laptops next to each other and the server laptop opposite them.



Figure 2: Laptop Location

*****Note: If the power strip shuts off repeatedly, move half the computers to the second included power strip plugged into a different wall outlet.

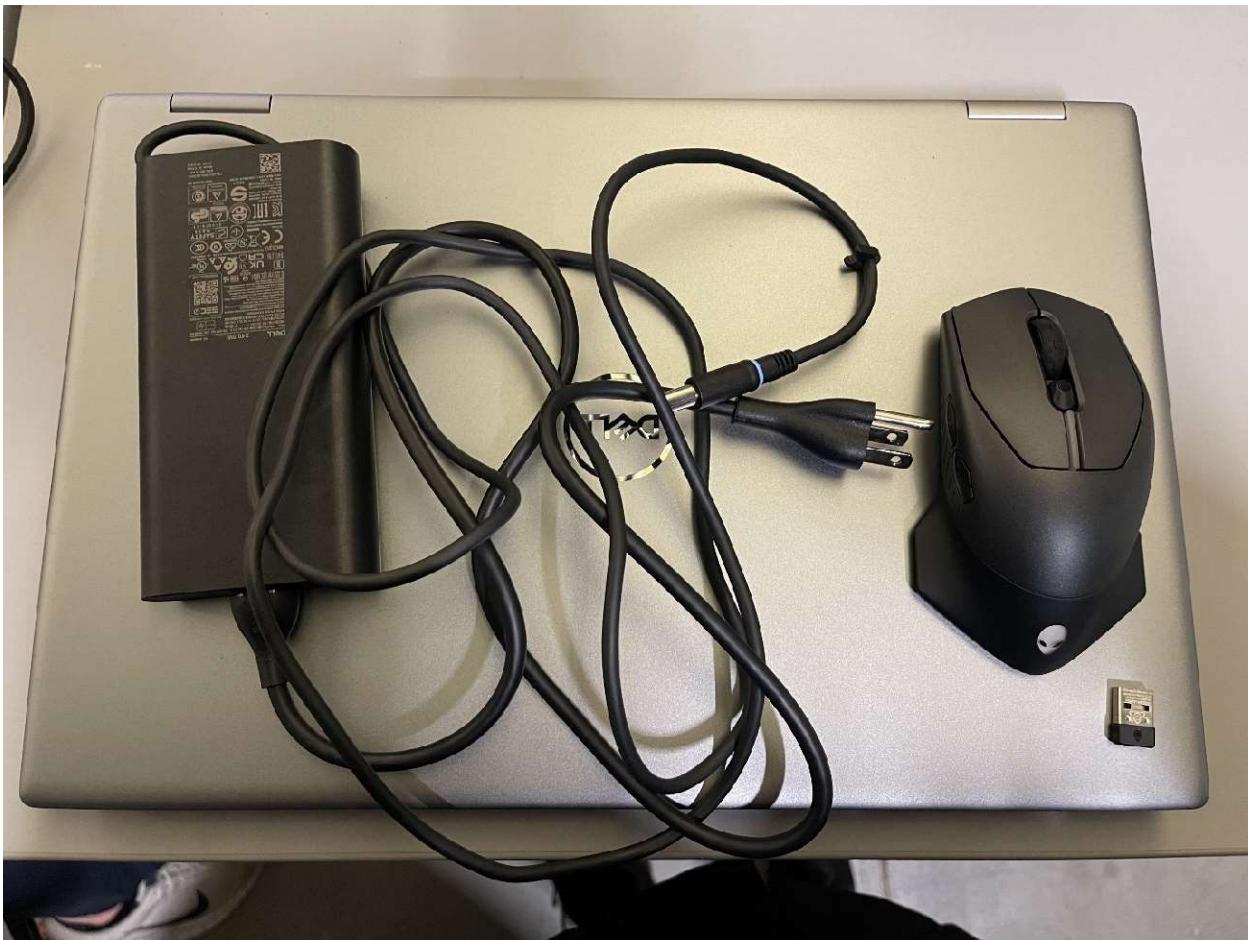


Figure 3: Laptop kit.

Step 2: Laptop setup

Laptop and peripheral setup for each laptop you will need:

- Laptop and charger
 - 1.3 Connect laptops to power using the provided power cables and one of the power strips.
- Alienware Wireless Mouse
 - Retrieve the four wireless mice from the kit and place one next to each laptop.



Figure 4: Alienware Mice Location

- Remove the wireless dongle from the mouse's bottom; plug it into the USB port.



Figure 5: Alienware Bluetooth Dongle

- Switch the mouse button on the bottom from RED to GREEN to turn on the mouse's power.



Figure 6: Alienware Power Button

- If the mouse battery is dead, connect via the included USB-A cable.
- Important: Always return the dongle to the mouse after use. A lost dongle renders the mouse "broken."

Step 3: Meta Quest 3 Headset Setup

3.1 Remove the Meta Quest 3 Head-Mounted Display (HMD), controllers, and USB-C cables and place one set of each next to the User laptops.

NOTE: There should only be 2 Meta Quest 3 headsets, so one player laptop will NOT have a Meta Quest 3 headset.

33.2 Connect one end of the Meta Link Cable to the USB-C port located on the left side of the Meta Quest 3 headset, just below the head strap adjustment area (when looking inside). Plug the other end into the first USB-C port located on the left side of the laptop.



Figure 8: MQ3 Link Cable unplugged.



Figure 9: MQ3 Link Cable Plugged In

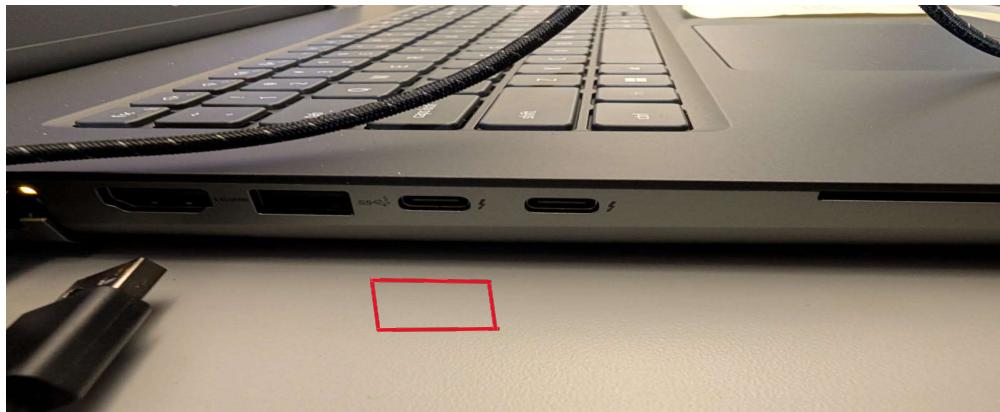


Figure 7: Laptop USB-C Port

3.3 Power on the headset using the small button on the left side. The Meta symbol and camera activation inside the headset indicate success.



Figure 10: MQ3 Power Button location.

(OPTIONAL) Update the headset software if prompted (Appendix C).

3.4 Log into a Meta account or contact the administrator for credentials. If your HMD has been factory reset, register a new Meta Quest account or log in to a Meta account.

Step 3a: Entering the Meta Quest 3 Link Room

3.1a After successfully turning on and logging into Meta Quest 3.

3.2a Put on the headset, grab the right Quest controller, and turn it on via the power button on the controller.



Figure 11: Quest Controller Power Button

3.3a Look at the bottom of the screen for the battery icon and your user picture; click on that small box

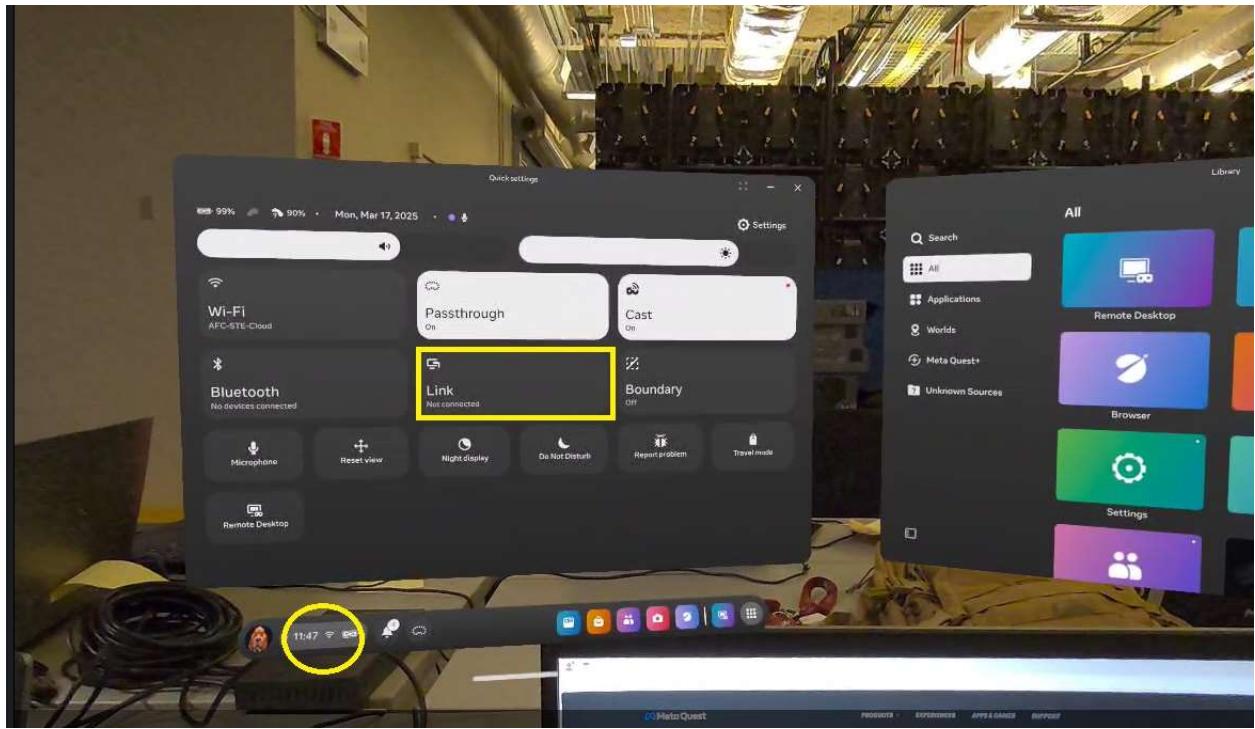


Figure 12: Quest Home example.

3.4a A window will open that has some user options to click. Find the “Link” button and click it

3.5a It will ask you which computer to connect to, make sure your HMD is plugged in, and press connect.

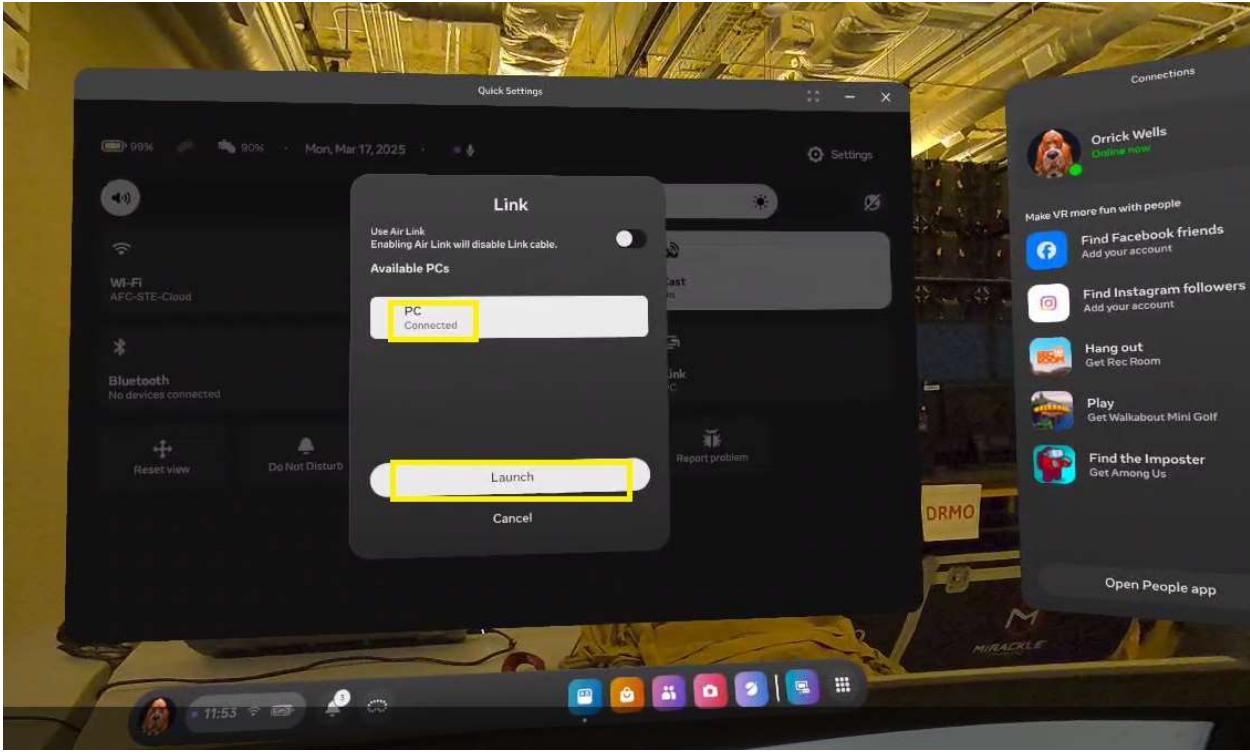


Figure 13: Quest Home Launch

Success looks like the link room opening allowing VBS4 to launch in HMD.

Place the HMD next to the computer until step 7.

Step 4: Xbox Elite Controller Setup

- 4.1 Place one Xbox Elite controller next to each user's laptop.
 - 4.2 Connect the controller to the laptop with the included USB-C cable.
 - 4.3 Press and hold the power button for 3 seconds until the controller powers up.
-

Step 5: TP-Link Omada Network Switch Setup

- 5.1 Connect the TP-Link Omada switch power block to the outlet.

5.2 Connect Model N261-015-BK ethernet cables from laptop ethernet ports to TP-Link switch ports 3, 4, 5, and 6.

5.2 Verify that “PWR” is solid green and “SYS” is blinking green. Portlights should flash green when transmitting data.

Step 6: VBS4 Setup

Step 6a: Client Laptop Configuration (Basic Launch) (Default)

Launch VBS4 via desktop shortcut.



6.1a Select the “Client” default preset.

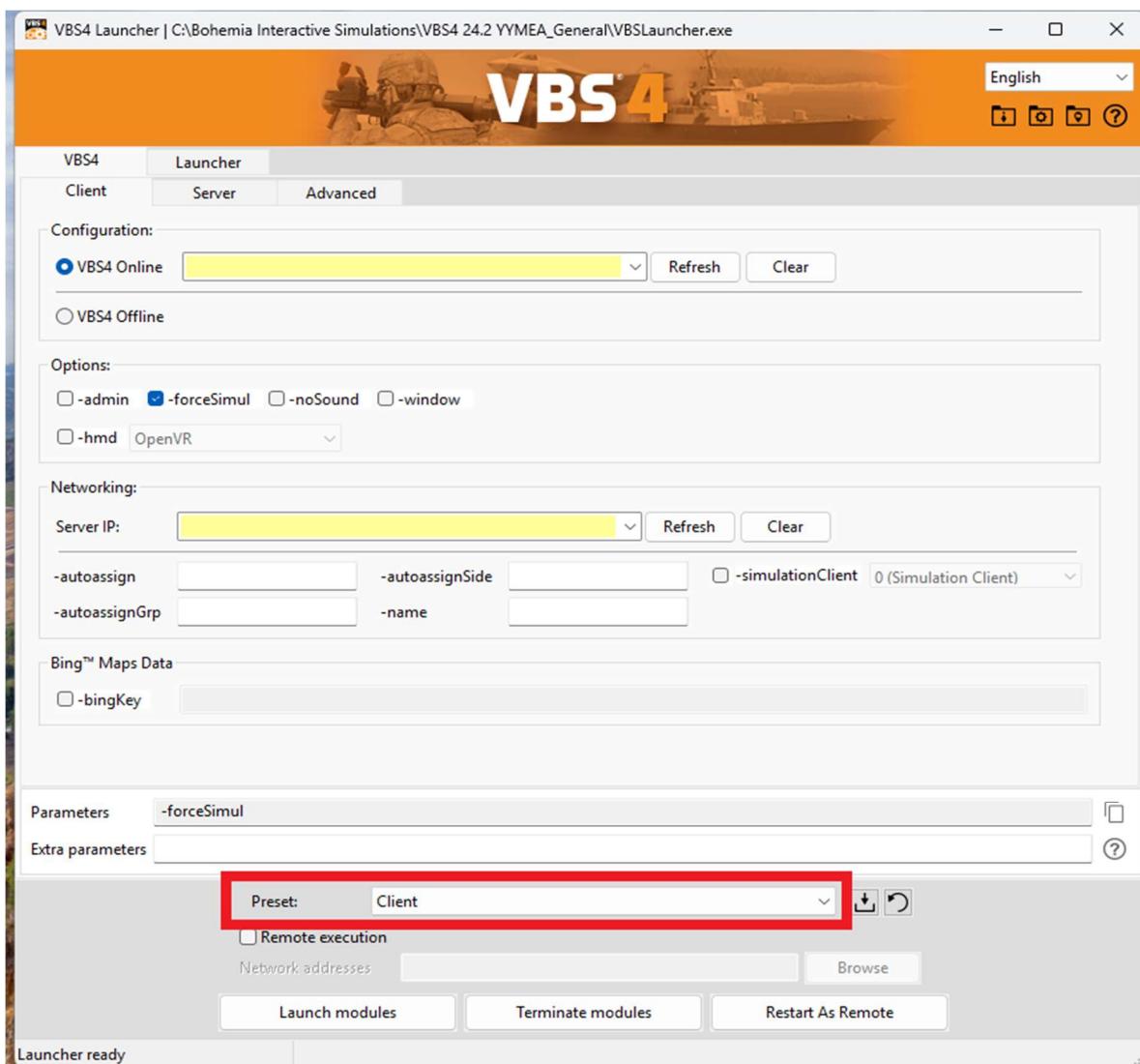


Figure 14: VBS4 "Client" Preset

6.2a Press the Launch Modules button at the bottom of the launcher.

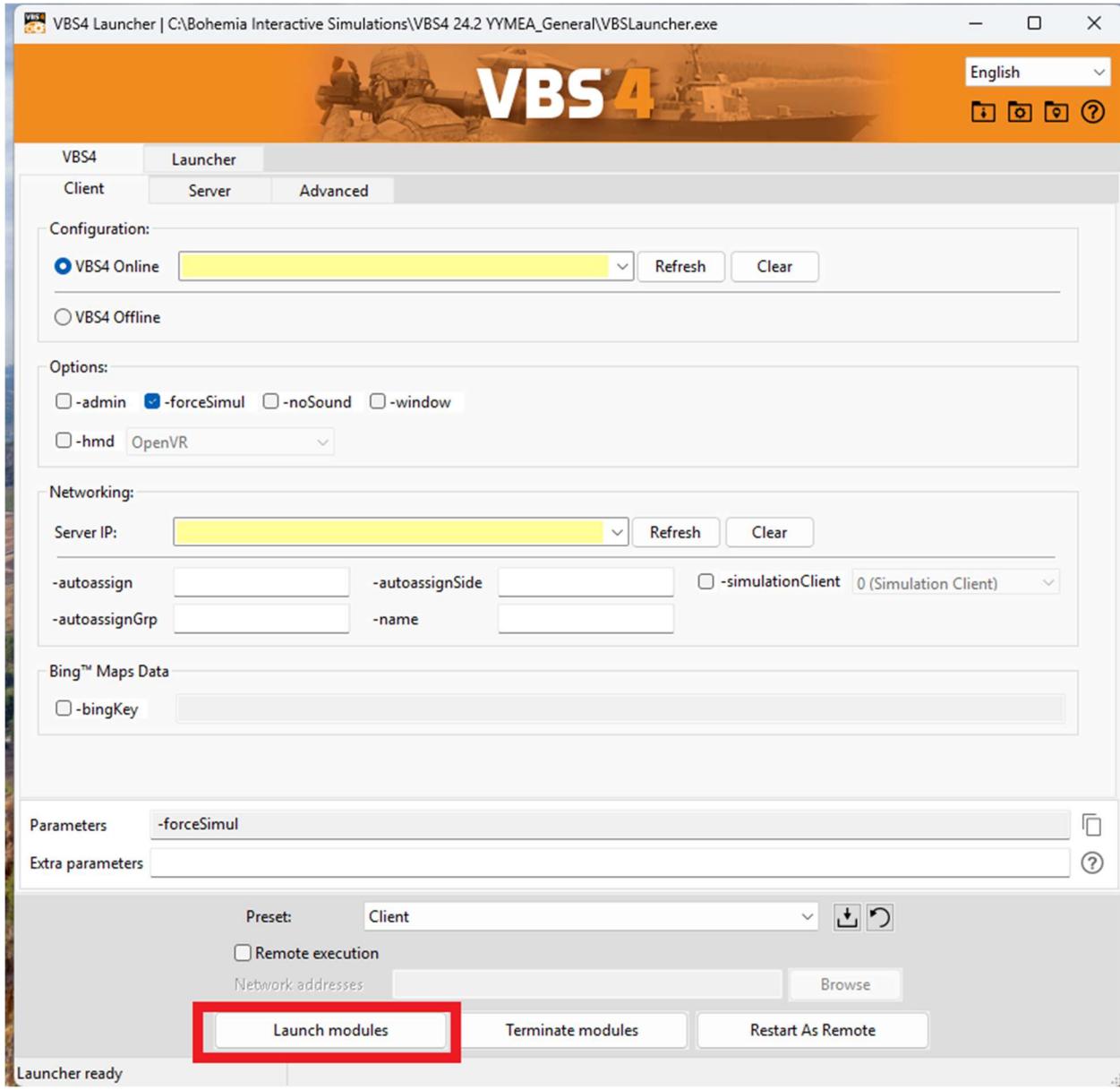


Figure 15: VBS4 "Client" Launch Modules button.

Step 6b: User Laptop with Meta Quest 3 HMD Configuration (Basic Launch) (Default)

You will first have to create the User profile in the launcher. See Appendix B: VBS4 User Profile Setup. Once the profile is set up, you can select it going forward. This is for the two computers with the Meta Quest 3 HMD hooked up.

Launch VBS4 via desktop shortcut.



6.1b Select the “User” preset. (If not available, see Appendix B: VBS4 User Profile Setup)

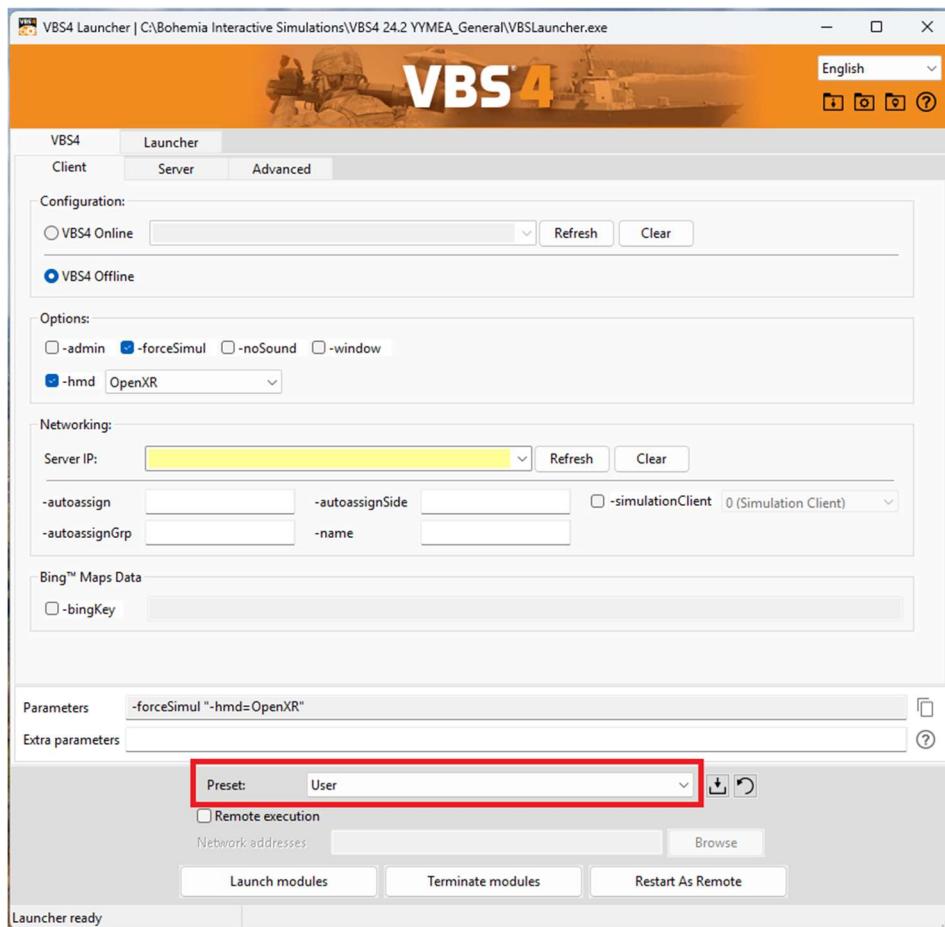


Figure 16: VBS4 Launcher "User" Preset, See Appendix B: User Profile Setup

6.2b Press the Launch Modules button at the bottom of the launcher.

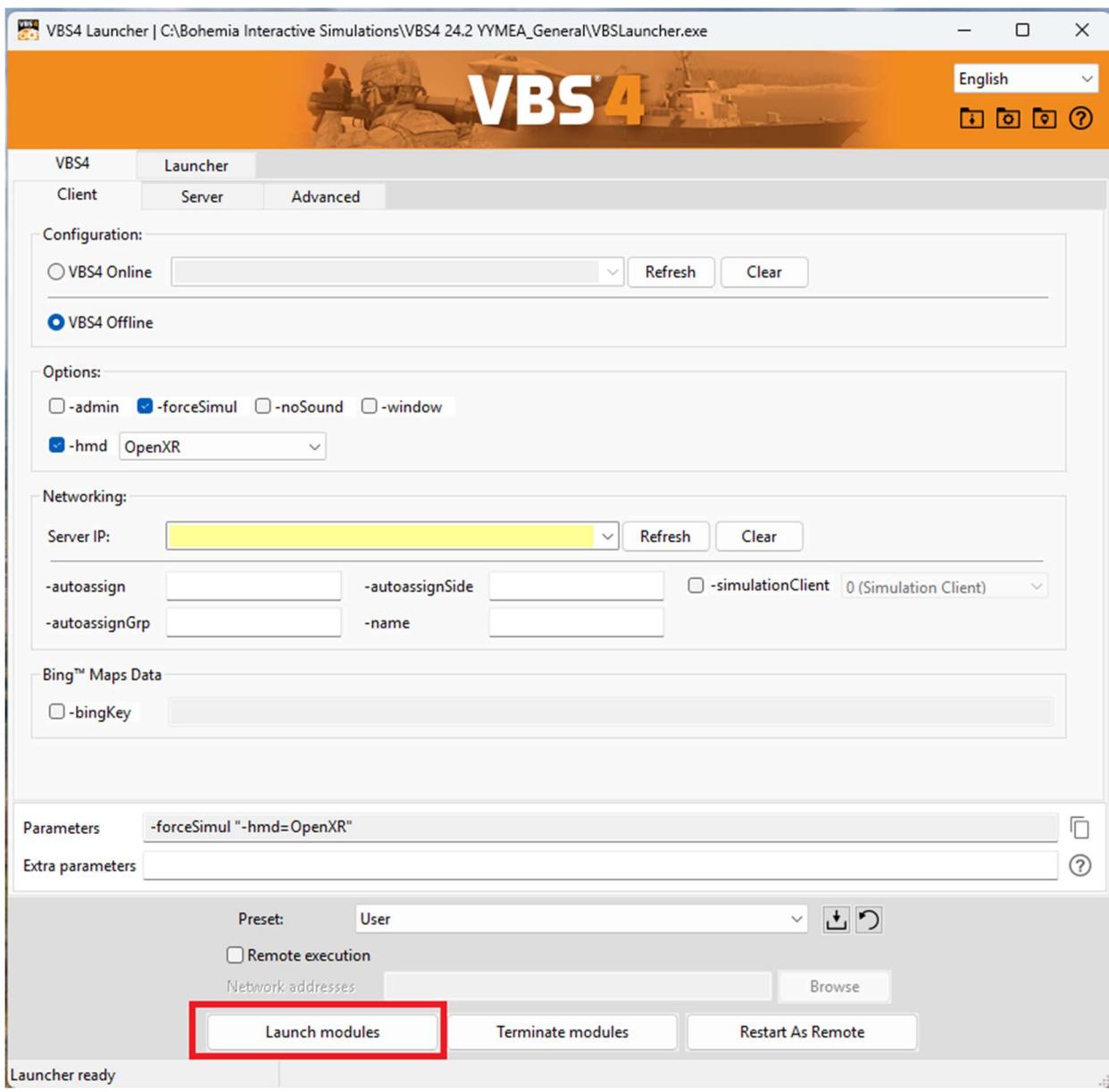


Figure 17: "User" Preset Launch Modules Button

Step 6c: Server Laptop Configuration (Admin)

6.1c Start VBS4 via desktop shortcut.



6. 2c In the launcher, select the “Admin” preset. (See Appendix A: VBS4 Admin Profile)

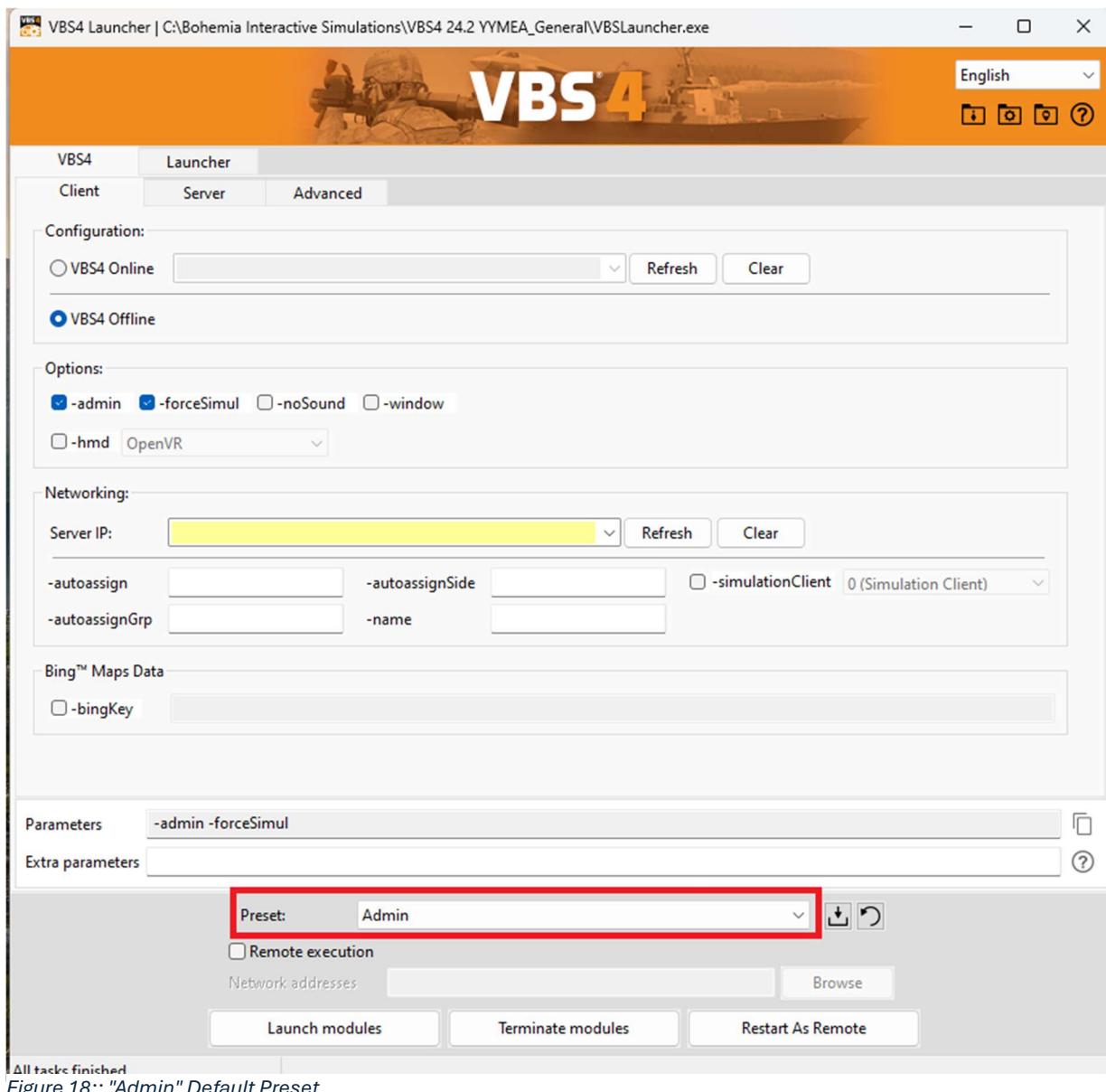


Figure 18:: "Admin" Default Preset

6.3c Click “Launch Modules” to open the VBS4 main menu.

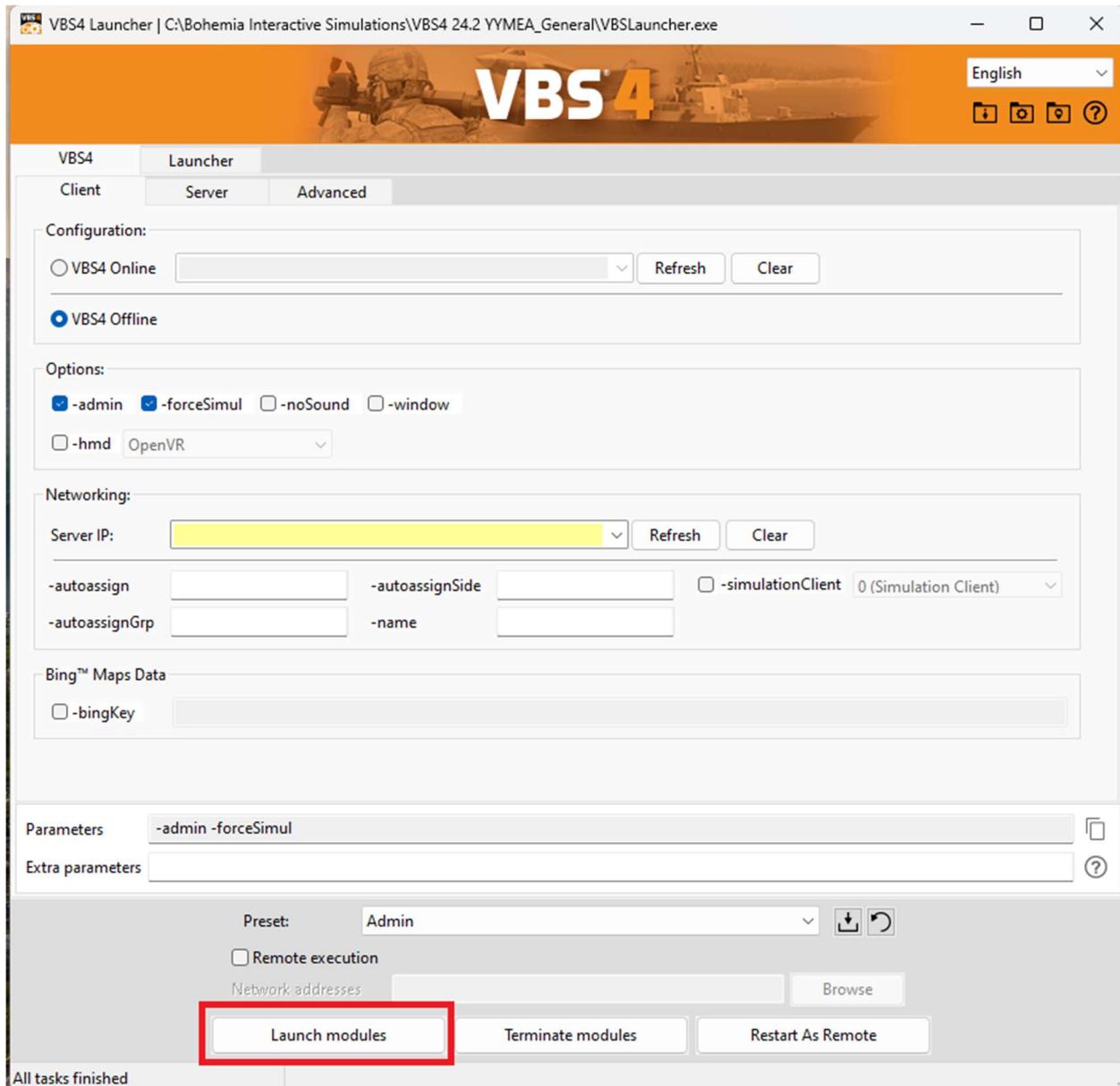


Figure 19: "Admin" Launch Modules Button

Step 7: Setting up the Battlespace

7.1 Select the desired “Battlespace” scenario and click “Host” under “Execute” next to the scenario name.

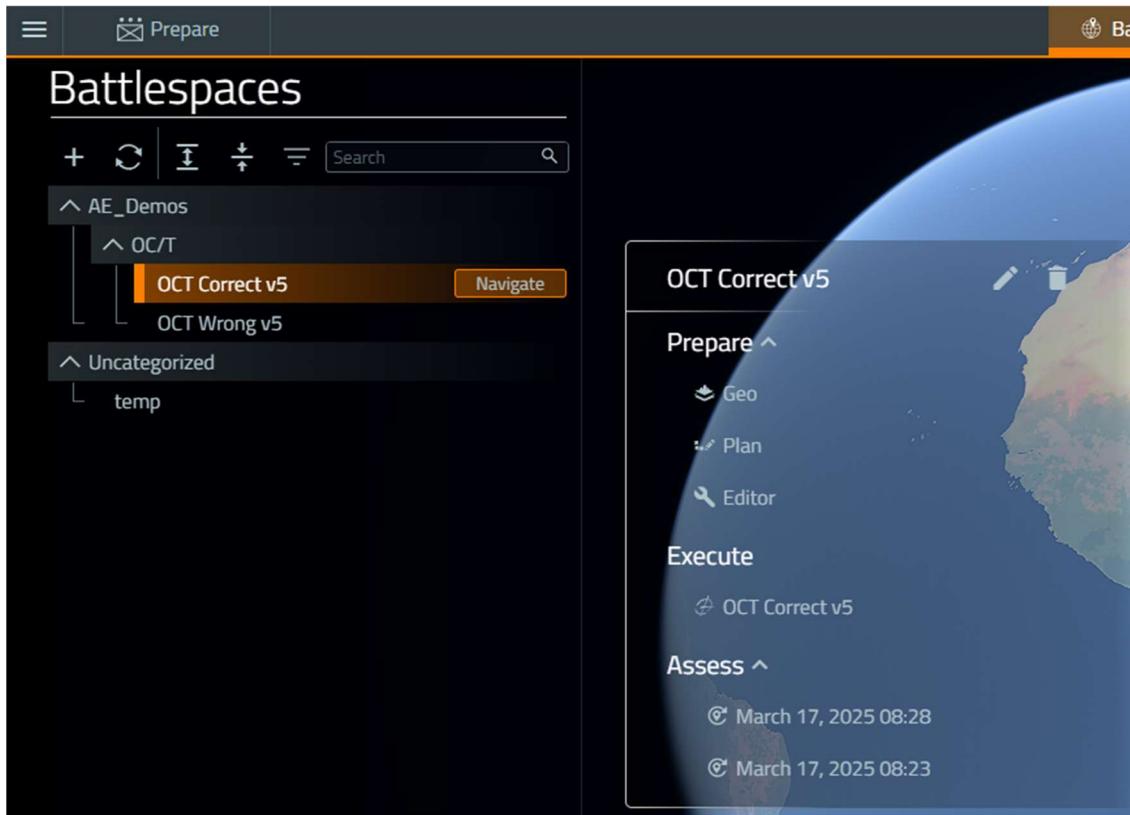


Figure 20: VBS4 Menu - Battlespaces Select

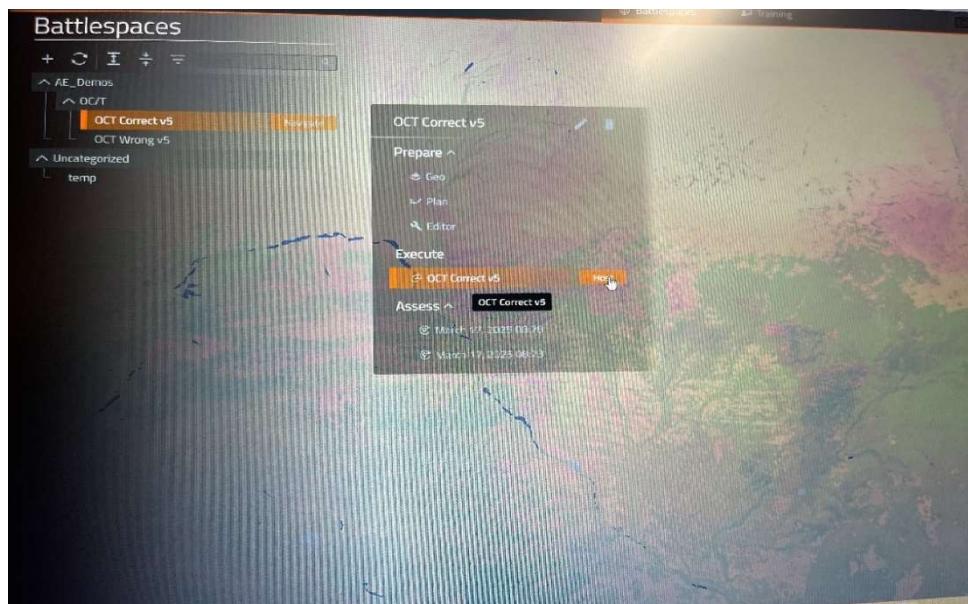


Figure 21: VBS4 Host Selected Battlespace

7.2 Choose the “Admin” role for scenario control.

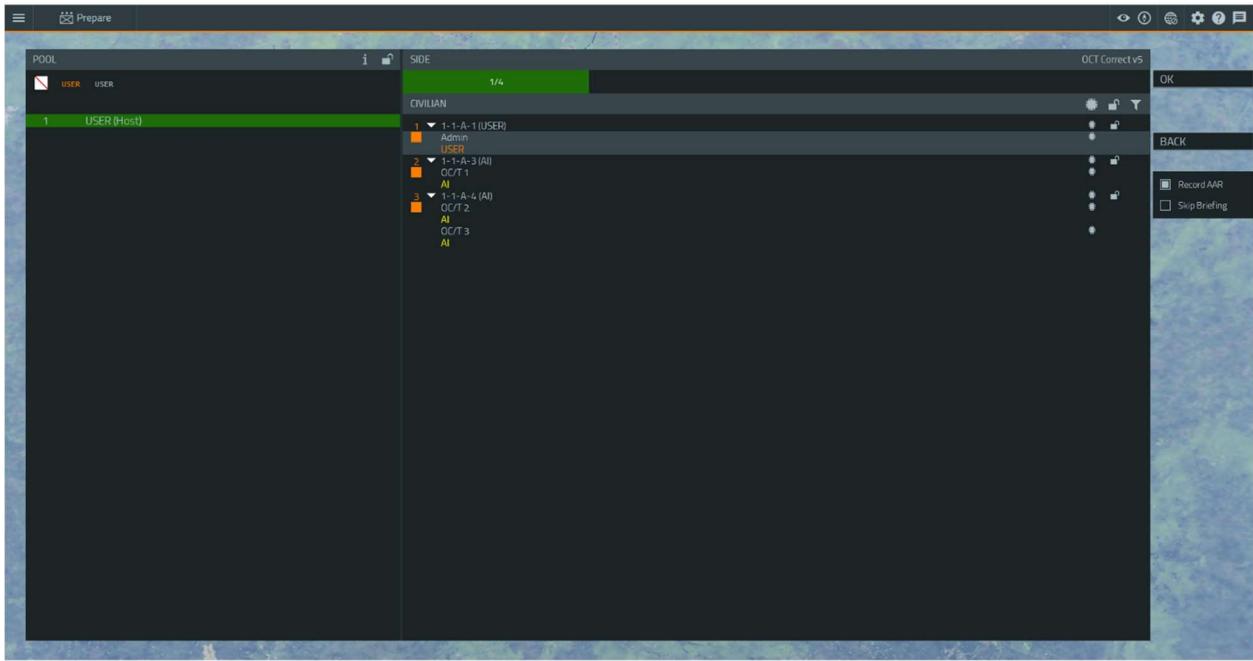


Figure 22: Scenario Role Select Screen

*****STOP HERE UNTIL STEP 8 HAS BEEN COMPLETED *****

Step 8: Starting and connecting to VBS4 Session (User)

- 8.1 In the VBS4 main menu where the simulated earth appears, click the “Training” tab.

8.2 Click “Connect to server” under Multiplayer.

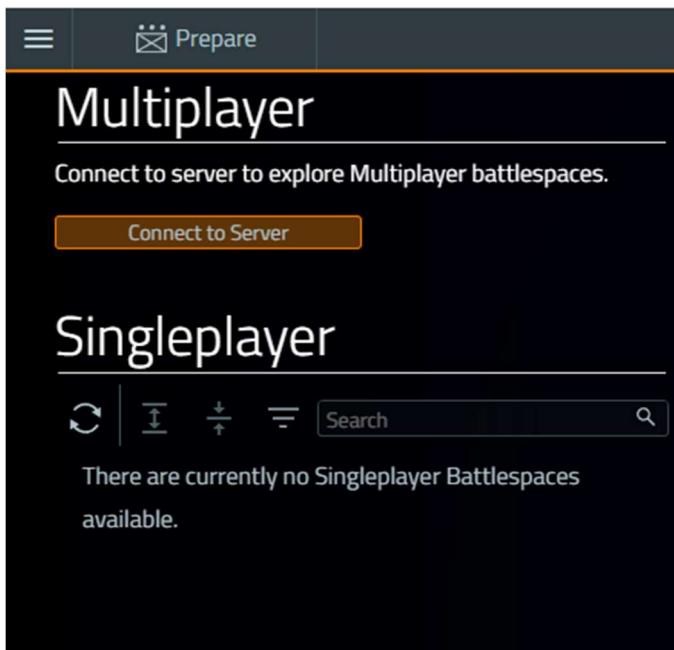


Figure 23: Player POV Connect to Server

8.3 Choose the correct host server and scenario. It could be the only one available.

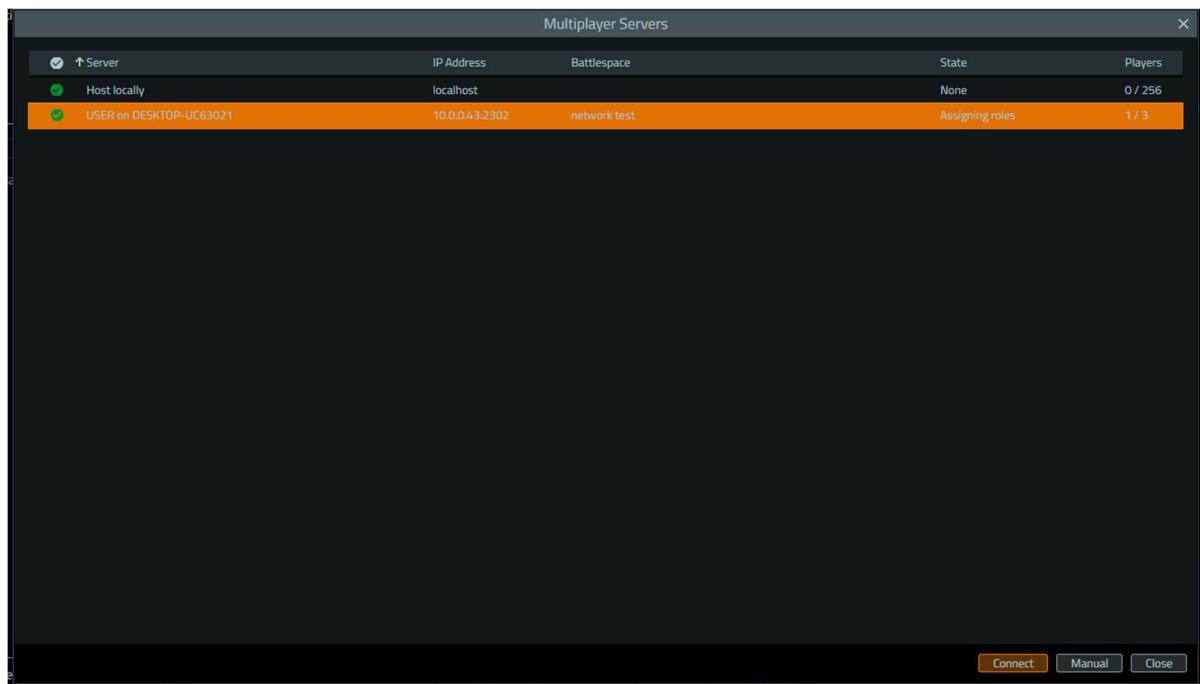


Figure 24: User POV Scenario Select Screen, choose the correct server to join.

8.4 Select your role (e.g., Team Leader, Gunner, Driver).

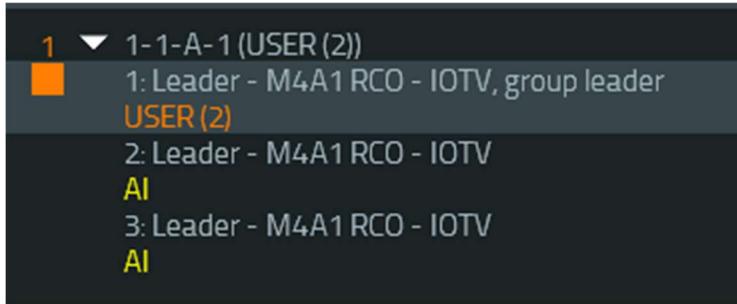


Figure 25: User POV Role Select

Success looks like your name in the unit position, as in Figure 26.

Step 9: Start the Battlespace Scenario after ALL users have joined

*****RESUME FROM STEP 7 ON THE ADMIN COMPUTER*****

Wait until all user computers are connected. On the right side, select “Record AAR,” then click “OK” to start.

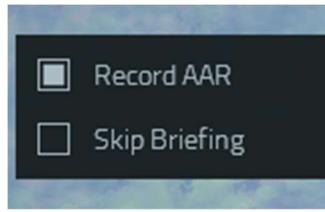


Figure 26: "Admin" POV
"Record AAR" switch.

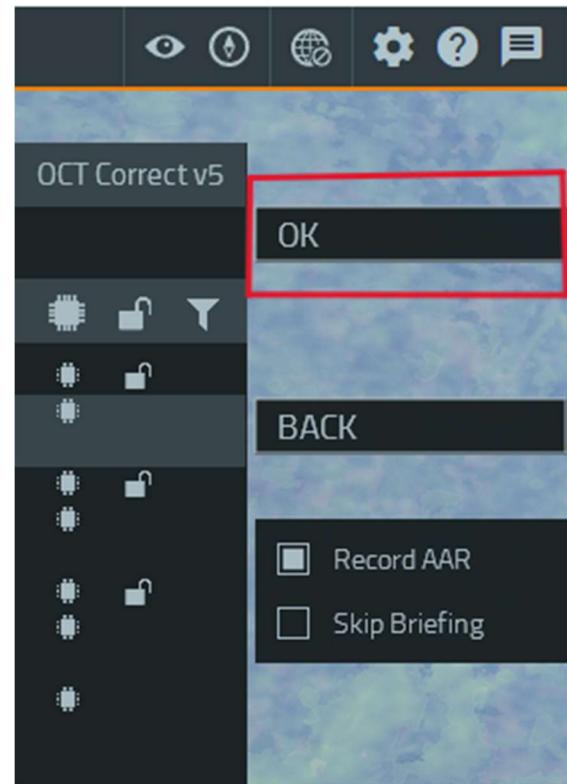


Figure 27: "Admin" POV Top Right Side "Ok" Button

Success looks like all the computers connecting to the same scenario simultaneously.

Step 10: Running VBS4 via Meta Quest 3

10.1 When Meta Quest 3 launches, it should take you to the “Link Room”. This room is a blank white room.

NOTE: When Step 10 is completed, the scenario should launch on the Meta Quest 3 HMD

Step 11: Restart the Scenario from the Admin machine

When the Admin needs to reset a scenario for any reason

11.1 In the top left corner, press the hamburger menu icon.

NOTE: If no hamburger menu icon is displayed, hit the escape key.

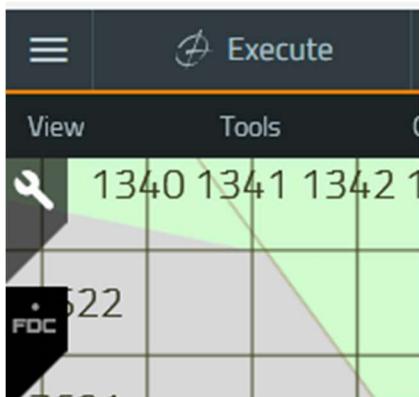


Figure 28: Hamburger Menu Button Top Left

11.2 From the drop-down menu, mouse over “Server Management.”

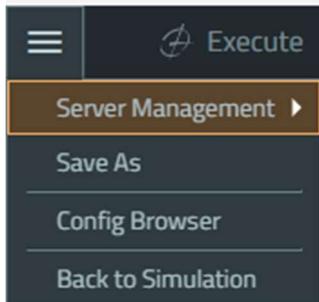


Figure 29: Hamburger Drop-Down Menu

11.3 From Server management, click “End Battlespace.” This will take you back to the unit select screen, where users can change positions or reset before the next iteration.

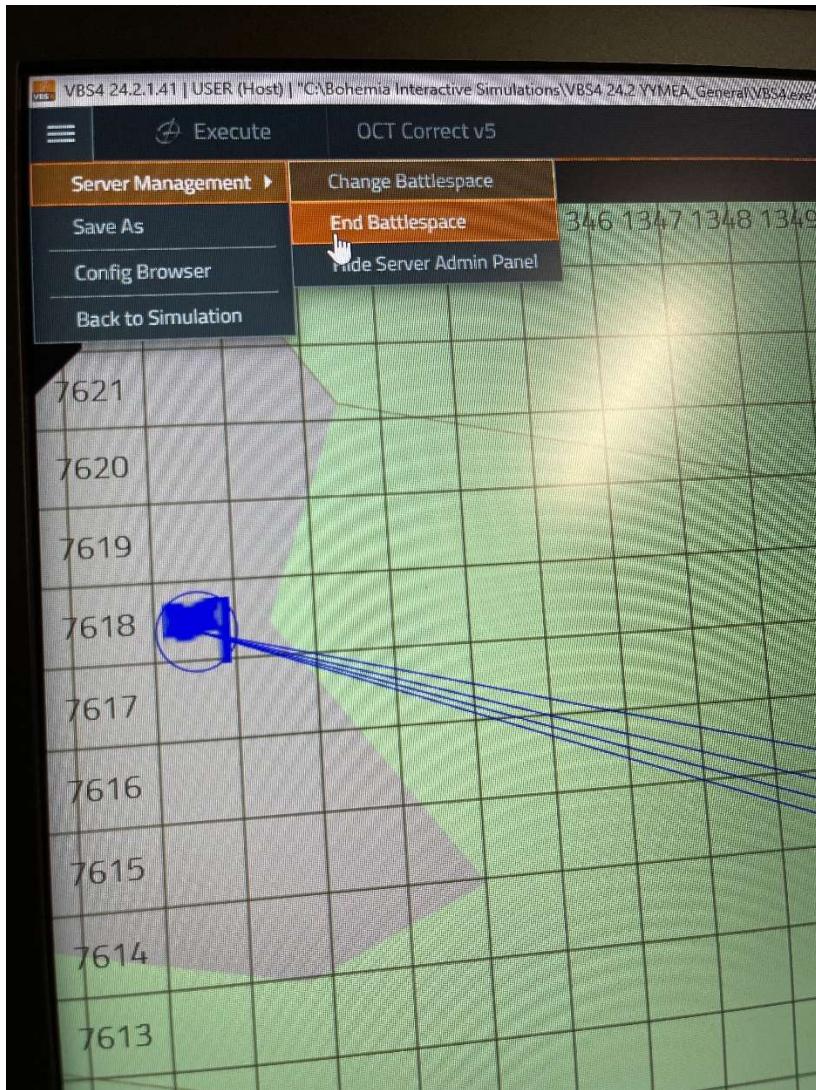


Figure 30: "Admin" POV End Battlespace

11.4 Confirm to end the battlespace by clicking “Yes.”

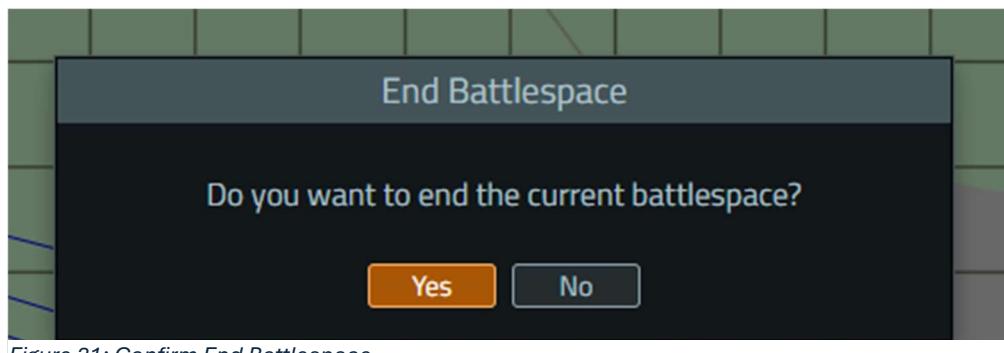


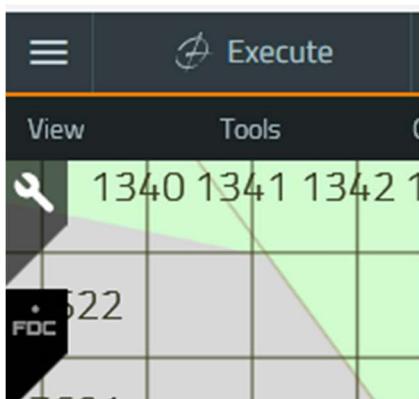
Figure 31: Confirm End Battlespace

Step 12: Change Battlespace from Admin Machine

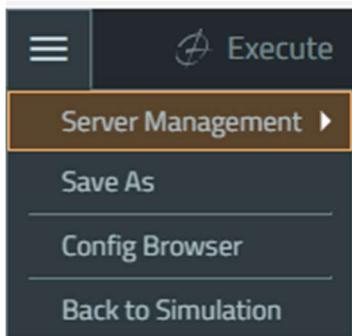
When the admin needs to change the scenario to a completely different scenario.

- 12.1 In the top left corner, press the hamburger menu icon.

NOTE: If no hamburger icon is displayed, press the Escape Key



- 12.2 From the drop-down menu, mouse over “Server Management.”



- 12.3 Click on “Change Battlespace”

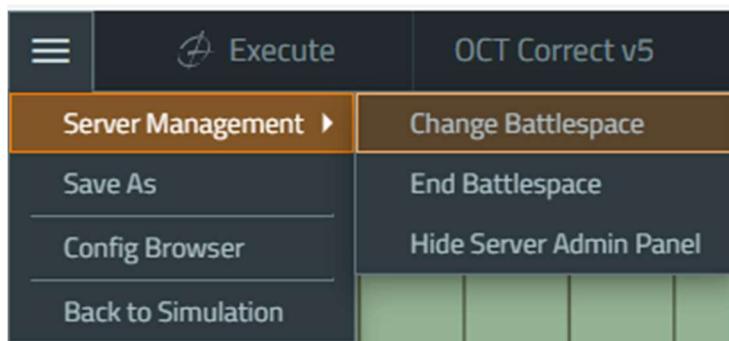


Figure 32: Admin POV Change Battlespace Button

12.4 Confirm you want to change the battlespace and click “Yes.”

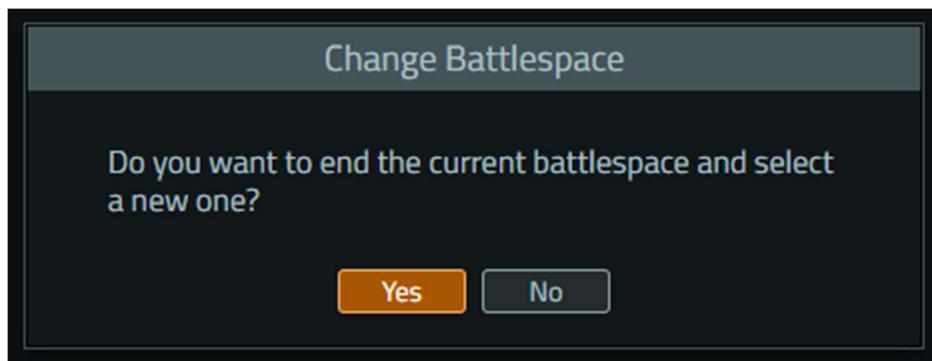


Figure 33: Admin POV Confirm Change Battlespace

12.5 This will take you to a new window listing the available battlespaces on the admin machine.

Multiplayer Battlespaces				
Stored on:	<input checked="" type="checkbox"/> Local	<input type="checkbox"/> Dedicated Server	<input type="checkbox"/> VBS World Server	Refresh Battlespaces
Battlespace	Stored on	Tags	Max Players	Last modified
OCT Correct v5	Local		4	March 14, 2025 13:24:14
OCT Wrong v5	Local		4	March 14, 2025 13:29:06
temp	Local		0	November 12, 2024 10:10:31

Figure 34: Admin POV, Choose Which Battlespace to Choose

12.6 Click on the Battlespace the admin wants to run and click “OK” at the bottom.

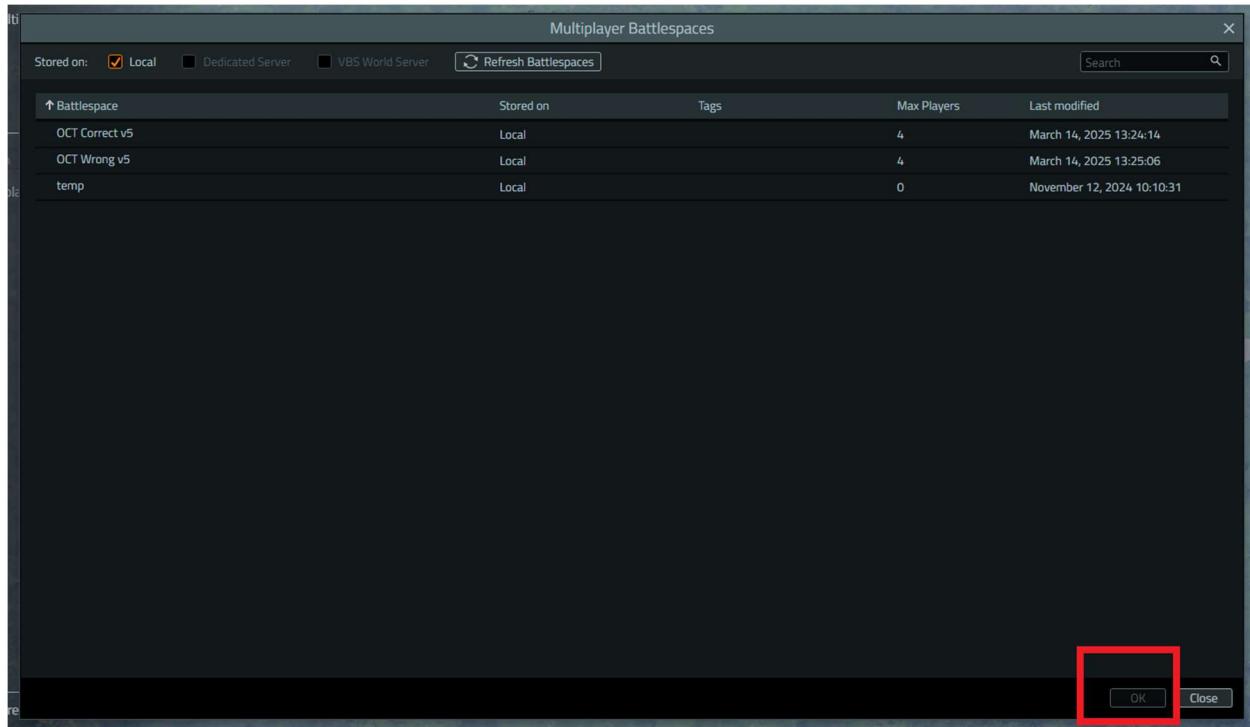


Figure 35: Admin POV Battlespace Select Screen

Success looks like the admin machine; all connected clients will automatically connect to the new Battlespace.

Step 13: Close VBS4 and shut down laptops via software

13.2 Disconnect all cables, peripherals, storing dongles, and mice carefully.

13.3 Power off the TP-Link switch, Meta Quest headsets, and laptops.

13.4 Replace all components neatly in the kit box and secure the eight clips.



Figure 36: STE SMTP Kit correctly put away.

Step 14: Importing Battlespace Scenario into VBS4 from Google Drive Link

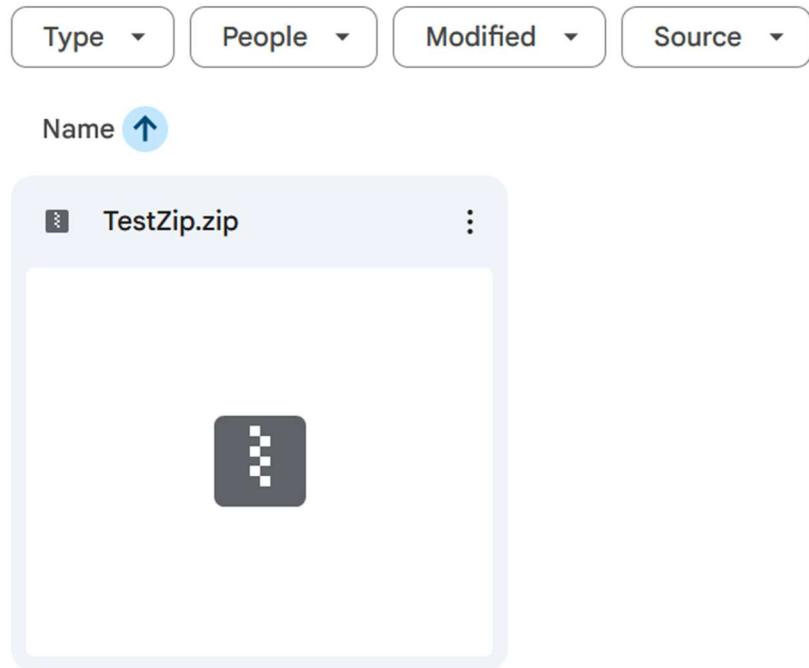
14.1 Go to the provided Google link to the scenario you want to download.

Example Google Drive Link:

<https://drive.google.com/drive/folders/encryptedAddressOfSharedFile?usp=sharing>

14.2 Find the scenario file you want to download.

My Drive > TestGoogleDriveFolder ▾

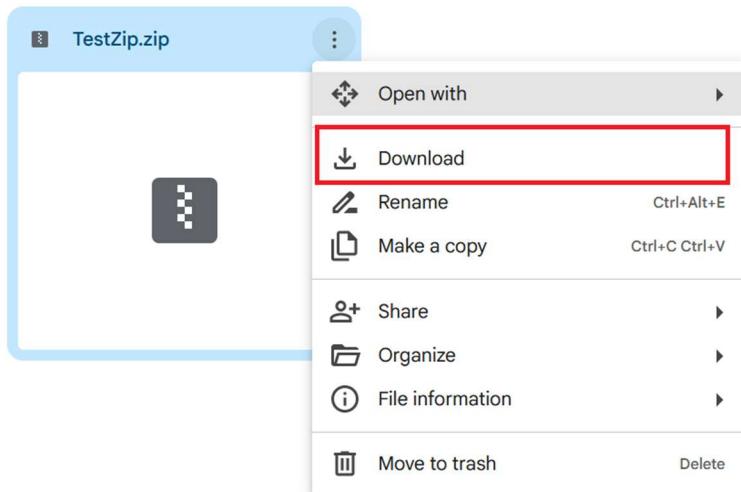


14.3 Press the 3-button drop-down menu.

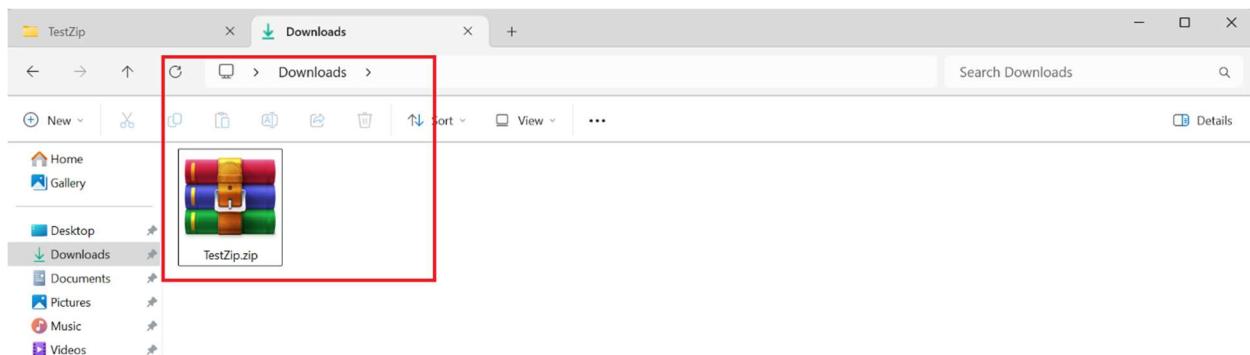
My Drive > TestGoogleDriveFolder ▾



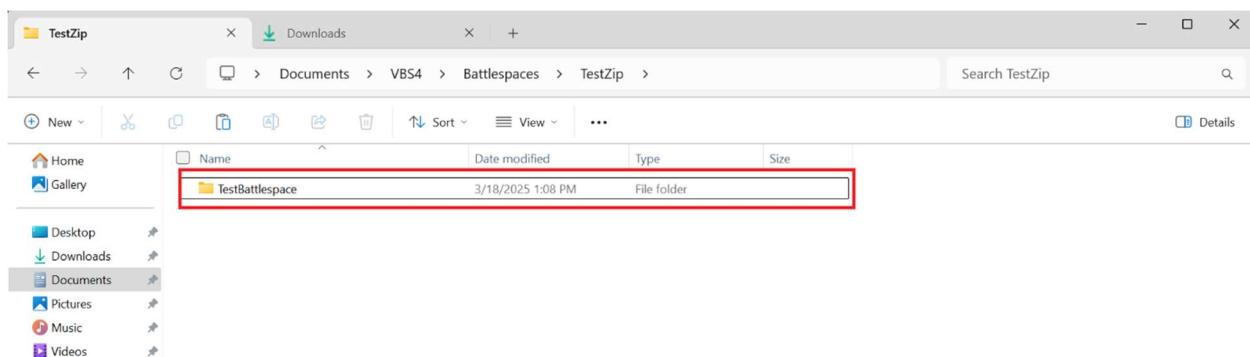
14.4 Press the “Download File” option from the drop-down menu



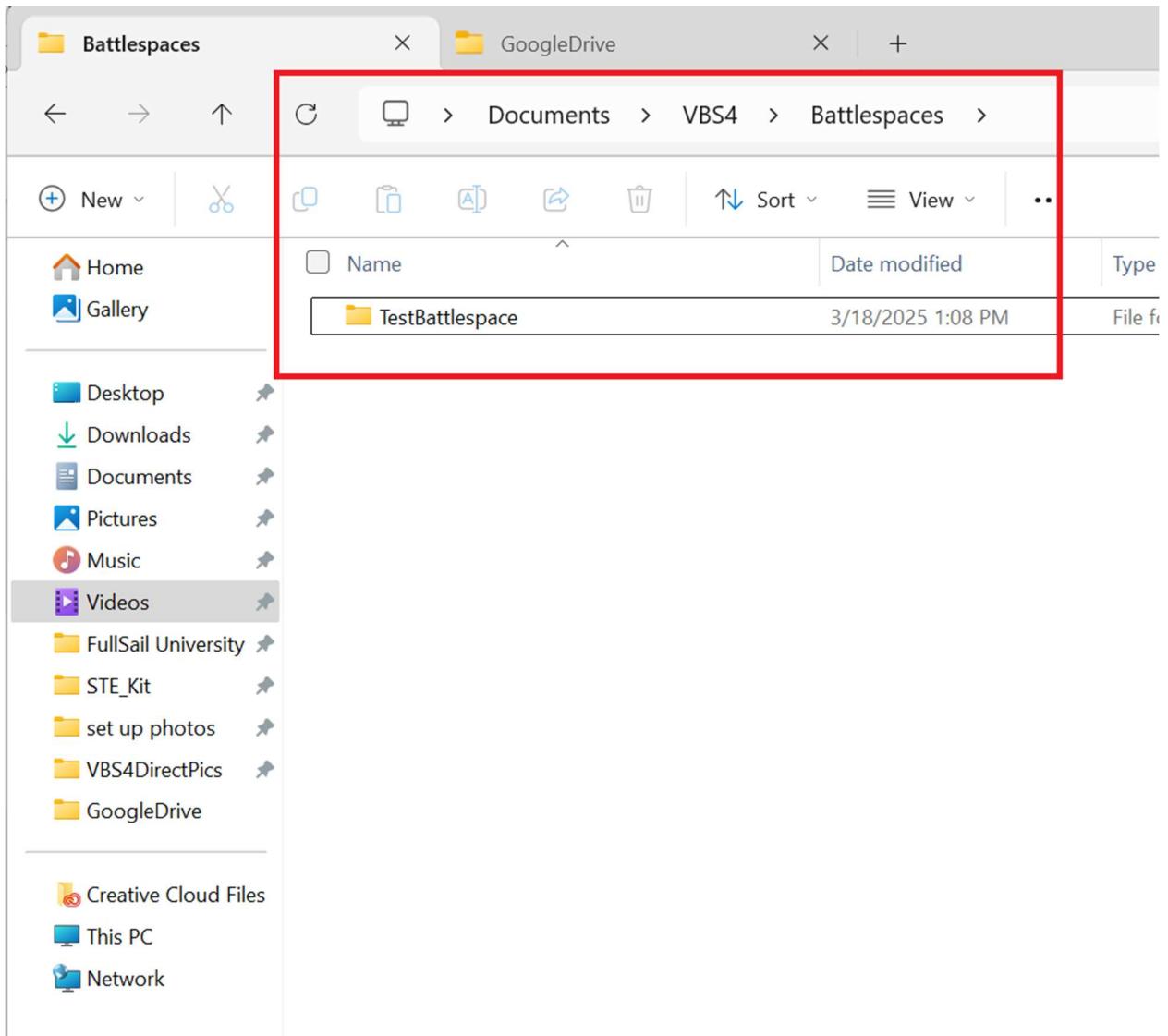
14.5 Go to your “Downloads” folder on your computer. The downloads folder is Typically located at C:\Users\UserName\Downloads



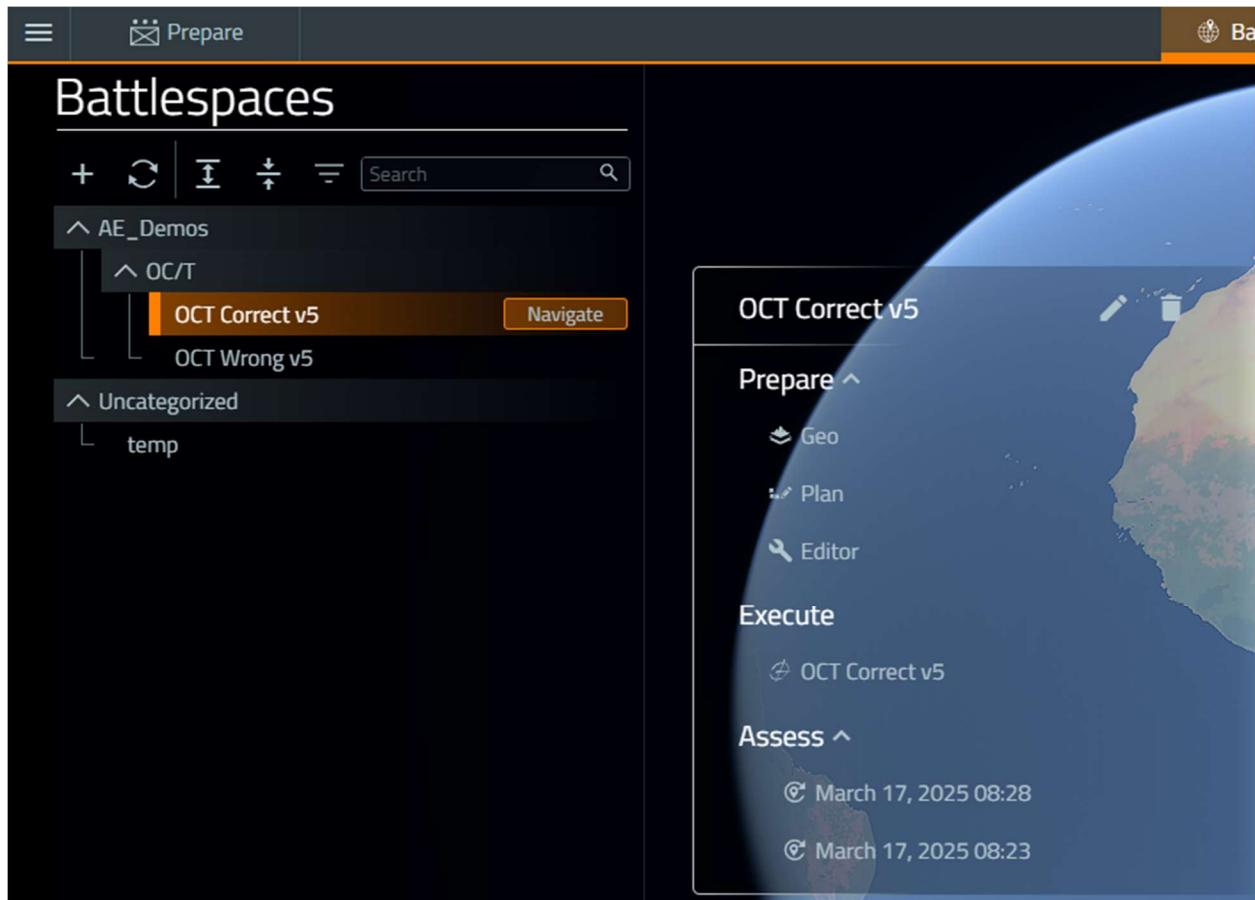
14.6 Extract the Zip file that you just downloaded



14.7 Copy the extracted file from your downloads folder into the VBS4 Battlespace folder located at \Documents\VBS4\Battlespaces\



14.8 If done correctly, an Admin PC can launch VBS4. Once launched, they will see the names of the Battlespace folders listed under Battlespaces in VBS4.



Troubleshooting Common Issues

If Meta Quest 3 does not connect, verify USB-C connections and headset charging symbol.

Update the headset if required (Appendix C).

If the Link button doesn't appear, ensure Meta Link cable connections and headset power are active.

If the TP-Link switch does not indicate a connection, verify the integrity of the ethernet cable and whether the port light is green.

Appendix A: “Admin” profile settings

1. At the bottom of the launcher, there is a preset button; use the drop-down menu and choose the “Admin” profile.
 - a. Verify Admin Profile Settings
 - i. VBS4 Tab -> Client Tab → VBS4 should be “Offline.”
 - ii. Under Options, only these two should be selected. Everything else should remain unselected.
 1. Admin should be enabled.
 2. forceSimul should be enabled.
 - iii. Click on the “Save Current Configuration as a new playset” button to the right of the Preset name.
 - iv. Click Ok to override the “Admin” preset.

Appendix B: “User” profile settings

2. To create a new User profile, follow the steps below.
 - a. Verify User Profile Settings
 - i. VBS4 Tab -> Client Tab → VBS4 should be “Offline.”
 - ii. Under Options, only these two should be selected. Everything else should remain unselected.
 1. HMD should be enabled, and from the Drop-down menu, select OpenXR.
 - a. **NOTE: ON THE PC WITHOUT AN HMD, DO NOT ENABLE THE HMD SETTING**
 2. forceSimul should be enabled.
 - iii. Click on the “Save Current Configuration as a new playset” button to the right of the Preset name.
 - b. Click Ok and save the preset as “User.”

Appendix C: To update the Meta Quest 3 HMD.

1. You need to connect the HMD to the computer.
 - a. Verify that the Meta Quest 3 HMD is successfully connected to the computer by visually checking the battery icon in the HMD headset on the bottom menu bar. If the battery bar has a charging icon, then the HMD is being successfully detected, allowing power and data transfer to occur.
2. Then, you want to run the Quest Link software.

3. Once the software loads onto the home screen, click on the “Devices” tab on the left side of the menu.
4. From there, it will say whether your headset is connected and if an update is available by showing a blue bar at the top of the screen.
5. Click on the blue bar, and the update should automatically start downloading and installing.

*The headsets should be shipped with the latest software installed as of the shipping date.

*