

Using VeraLab in Multi-session Environments with Virtualized Clients

Pre-Requisites

1. You have VeraLab Server 9.1 or higher up and running with *multi-session license loaded*. To verify that you have correct license, go to **Tools -> About** and check **Additional Modules** option.



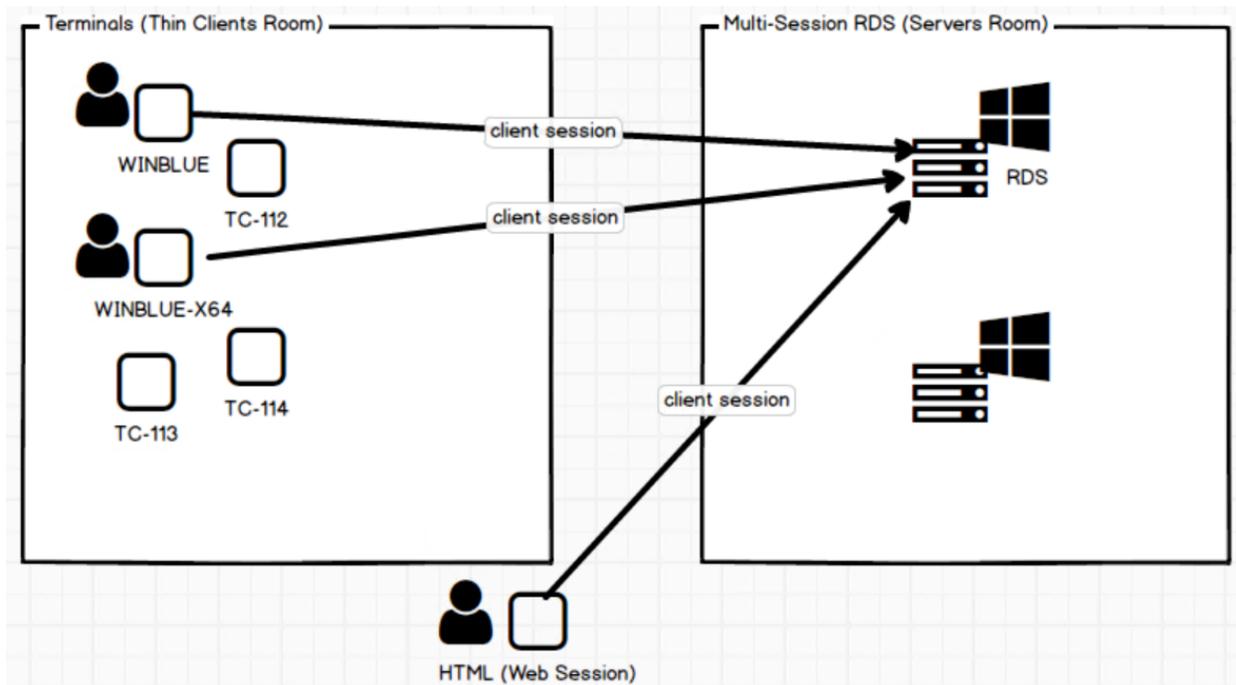
About VeraLab

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Product Information

Name: VeraLab
Version: 9.1.0
Revision: 791abd5288143b8d685944713312c5597631bc75
Additional Modules: **Multi-Session Environment**
Extended Support (will expire 01-May-2025)
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2. You have multi-session environment, such as Citrix Servers or VDI that allow multiple concurrent user sessions. In this document we will call multi-session servers running multiple concurrent sessions as RDS (Remote Desktop Services) servers. Later in the document for illustration purposes we use one of RDS servers called **RDS** (in bold).
3. You have **Thin Clients** room and RDS servers room, called **Servers**, as in our example below, already setup in VeraLab UI.



4. VeraLab client software (VeraLab client 9.1 or higher) is installed on RDS servers.

Setup Steps

1. Verify setting under **Tools -> Settings -> Multi-session Settings -> Enable auto-adding of terminal clients to Unregistered Stations list (true/false)**. If you would like new connections to be added to **Unregistered Stations** list, set value to **true**.
2. Login to VeraLab, go to **Setup -> Stations -> Unregistered Stations**. You may skip this step if you already registered your RDS servers during client installation.

The screenshot shows the VeraLab web interface. The top navigation bar includes 'Setup', 'Shift Board', 'Lab Control', 'Manager Board', 'Licenses', 'Reports', 'Issues', 'Student Portal', and 'Tools'. The main content area is titled 'Workstation Administration'. It features a search bar with 'Thin Clients' selected in the room dropdown and a 'Station Name' input field. Below the search bar, there are links for '+ Add Workstation', 'X Delete Selected Stations', 'Client Setup', 'Unregistered Stations (4)', and 'Banned Stations (0)'. The 'Unregistered Stations (4)' link is highlighted with a red box. Below these links is a table with columns: Workstation, Operating System, Model, Property No., Image, IP Address, Mac Address, Thin Client, Edit, and Delete.

Note: When you install VeraLab client software on RDS servers in the interactive mode, they will attempt to connect to VeraLab server and you can select a Room (in our example it is **Servers** room) to be assigned to.

3. Register **RDS** server with the **Servers** room.

Unregistered Workstations

Back to Workstation Administration

<input type="checkbox"/> Workstation	IP Address	MAC Address	Last Connected	Thin Client
<input checked="" type="checkbox"/> RDS	192.168.184.246	00:0C:29:D3:44:B4	15-Oct-2023 1:12 AM	<input type="checkbox"/>
<input type="checkbox"/> WIN10X64-2004	192.168.184.130	00:0C:29:56:CA:DA	15-Oct-2023 1:15 AM	<input type="checkbox"/>
<input type="checkbox"/> WINBLUE			15-Oct-2023 1:15 AM	<input checked="" type="checkbox"/>
<input type="checkbox"/> WINBLUE-X64			15-Oct-2023 1:15 AM	<input checked="" type="checkbox"/>

To register stations, select stations from the Workstation list, the select Room, Model, and Image from the drop down menus and click on the "Register" button. If you wish not to register stations and remove them from the list, select stations from the Workstation list and click on the "Remove" button.

Servers

Register

or

Remove Add to Banned Stations

OptiPlex 7090 Micro

--- Select Model ---

Apple iMac 27 inch

Apple MacBook Pro 13" Mid 2020

Apple MacMini

Dummy Model

HP Pavilion - TP01

HP Pavilion All-in-One - 27

HP Slim S01 Desktop PC

OptiPlex 3090 Micro

OptiPlex 5090 Tower

OptiPlex 7090 Micro

Thin Client

Server Image

- Go to **Tools -> Diagnostics ->** select **Servers** room and verify server is displayed in the list. It may take a minute to update icon status to green color (connected). Clicking on **RDS** icon will not show any sessions until thin clients start connecting.

Diagnostics

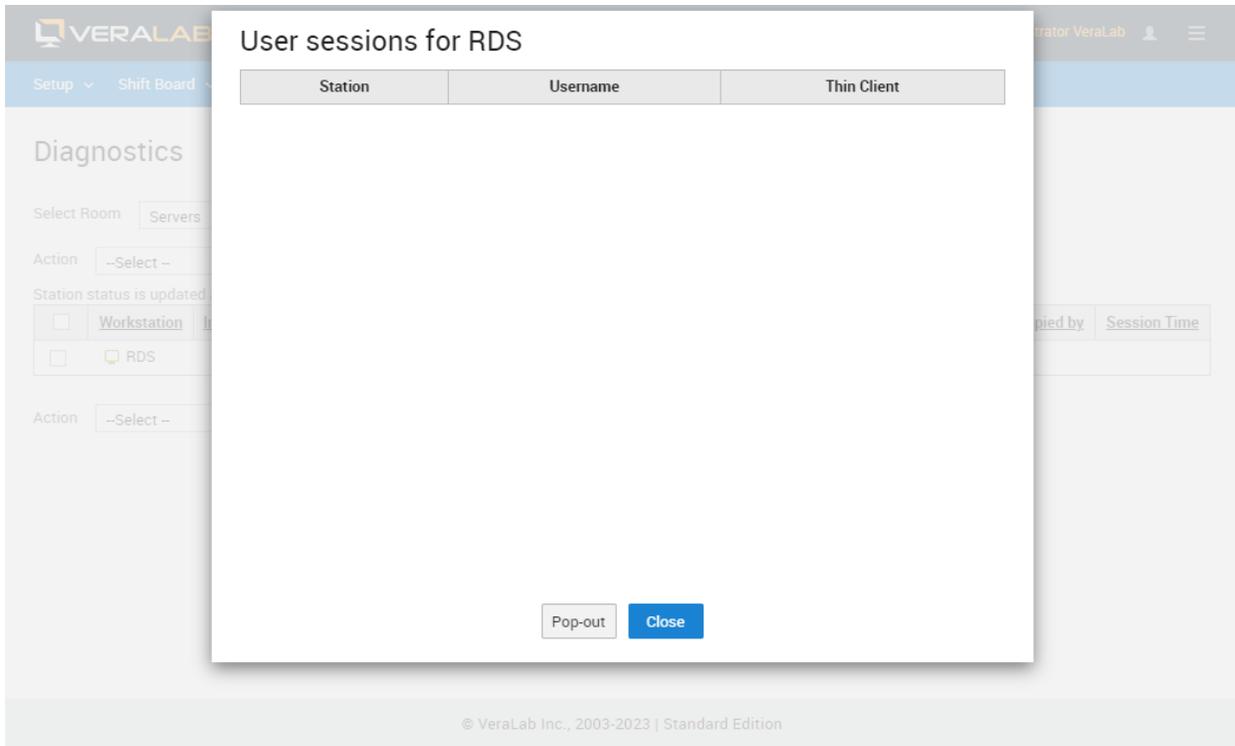
Select Room Servers

Action --Select-- Execute Wake-up All

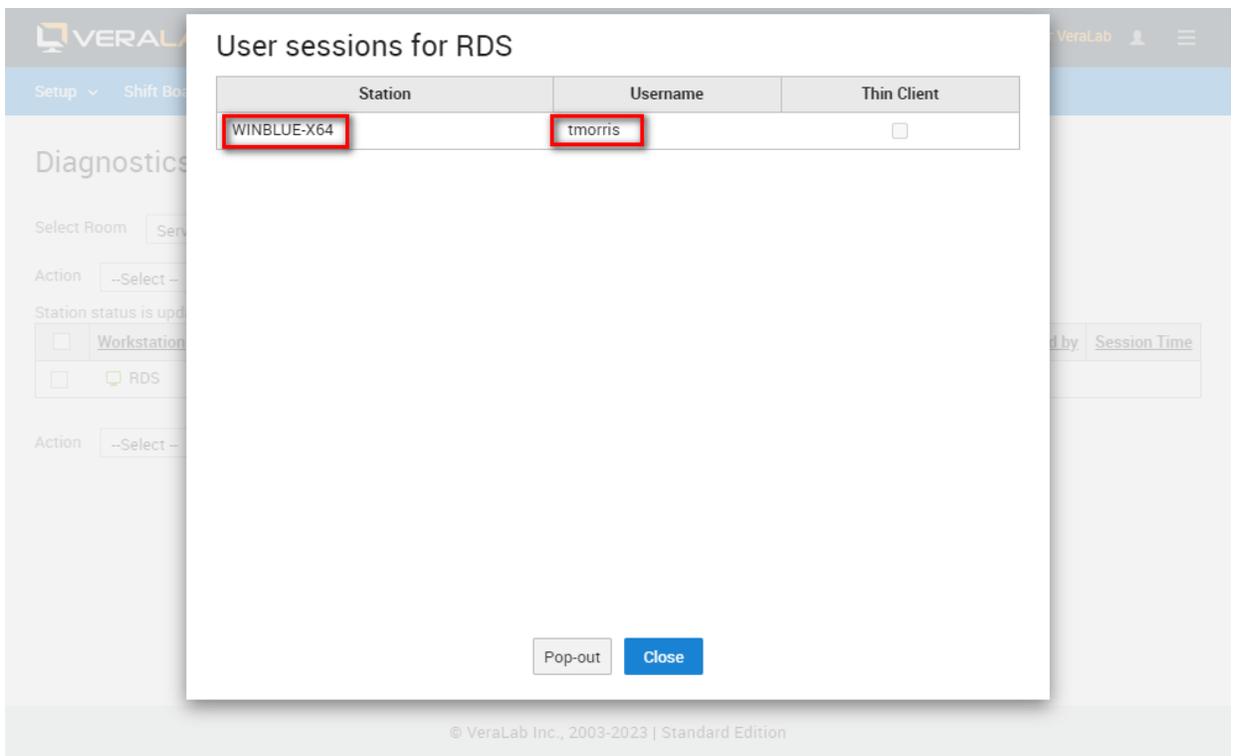
Station status is updated automatically every 15 seconds. Last update: 15-October-2023 1:04:37 AM Refresh

<input type="checkbox"/>	Workstation	In Use	Available	Version	Log Level	Get Log	Processes	Screenshot	Wake-up	Info	Locked	Occupied by	Session Time
<input type="checkbox"/>	<input checked="" type="checkbox"/> RDS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9.1.0.515	Finest						<input type="checkbox"/>		

Action --Select-- Execute



5. If any client connects to this RDS server at this time, you will be able to see it in the list by clicking on **RDS** icon.



- At this point client session is stored in the database and you can view statistics in VeraLab Reports, e.g. go to **Reports -> Search Self-Service Reports** and click **Search** button. In existing environments with a lot of historical data, select **Servers** room from the filters to limit output.

Note: In **Workstation** column the session will be displayed as **RDS** with client station name in round brackets until that thin client is registered in a room as a thin client.

The screenshot shows the VeraLab Reports interface. At the top, there is a navigation bar with the VeraLab logo and a user profile. Below the navigation bar, there is a menu with options like Setup, Shift Board, Lab Control, Manager Board, Licenses, Reports, Issues, Student Portal, and Tools. The 'Reports' menu item is highlighted. Below the menu, there is a search form titled 'Search Self-Service Logins' (highlighted with a red box). The form contains fields for User Name, Domain, Dates from (15-Oct-2023), Room Name (All), and a Search button. Below the form, there are links for Excel and CSV. Below the links, there is a table with the following data:

User Name	Domain	Admin	Workstation	Room	Started	Ended	Total Time
tmorris	XEN-TEST	No	RDS (WINBLUE-X64)	Servers	15-Oct-2023 1:20 AM		

- It is important to note that multi-user sessions can originate either from terminal clients or web-based sessions. Web based sessions will not show in the list of **Unregistered Stations**, but you will be able to see these sessions under **RDS** user session list. Station name will contain some sort of template string.

User sessions for RDS

Station	Username	Thin Client
HTML-6545-7430	ahall	<input type="checkbox"/>
WINBLUE-X64	tmorris	<input type="checkbox"/>

Pop-out Close

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Note: VeraLab stores usage statistics (logins, application usage) about such clients, however, due to security considerations VeraLab does not allow performing any other actions, such as taking screenshots, terminating processes, sending messages, etc.

- To register thin clients, go to **Setup Stations -> Unregistered Stations** and register new client under **Thin Clients** room.

Unregistered Workstations

[Back to Workstation Administration](#)

<input type="checkbox"/> Workstation	IP Address	MAC Address	Last Connected	Thin Client
<input type="checkbox"/> WIN10X64-2004	192.168.184.130	00:0C:29:56:CA:DA	15-Oct-2023 1:23 AM	<input type="checkbox"/>
<input type="checkbox"/> WINBLUE			15-Oct-2023 1:15 AM	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> WINBLUE-X64			15-Oct-2023 1:15 AM	<input checked="" type="checkbox"/>

To register stations, select stations from the Workstation list, the select Room, Model, and Image from the drop down menus and click on the "Register" button. If you wish not to register stations and remove them from the list, select stations from the Workstation list and click on the "Remove" button.

Thin Clients Thin Client Thin Client Image

Register

or

Remove Add to Banned Stations

- Once registered, client names will show individually in the **Search Self-Service Logins** report under the **Thin Clients** room.

VERALAB Welcome, Administrator VeraLab

Setup Shift Board Lab Control Manager Board Licenses **Reports** Issues Student Portal Tools

Search Self-Service Logins

User Name: Domain:

Dates from: 15-Oct-2023 to:

Room Name: -- All --

Search

Excel CSV

User Name	Domain	Admin	Workstation	Room	Started	Ended	Total Time
tmorris	XEN-TEST	No	WINBLUE-X64	Thin Clients	15-Oct-2023 1:26 AM		
ahall	XEN-TEST	No	WINBLUE	Thin Clients	15-Oct-2023 1:26 AM		
ahall	XEN-TEST	No	RDS (HTML-6545-7430)	Servers	15-Oct-2023 1:23 AM	15-Oct-2023 1:26 AM	0:03
tmorris	XEN-TEST	No	RDS (WINBLUE-X64)	Servers	15-Oct-2023 1:20 AM	15-Oct-2023 1:22 AM	0:02

- If you are using license management functionality (under **Licenses** menu) to track software usage, you should be able to see software usage statistics in various reports, e.g. **Software Usage History**. Same applies to **Live Maps** functionality, where you can edit room maps and populate them with thin client stations.

VERALAB Welcome, Administrator VeraLab

Setup Shift Board Lab Control Manager Board Licenses **Reports** Issues Student Portal Tools

Software Usage History

Product: -- All --

User Name: Domain:

Dates from: to:

Room Name: -- All --

Search

Excel PDF

Product	Workstation	Room	Started	Ended	Duration	User Name	Domain
Notepad	WINBLUE-X64	Thin Clients	15-Oct-2023 1:29 AM			tmorris	XEN-TEST
Notepad	SRV2022 (RDP-Tcp#1)	Servers	10-May-2023 2:07 AM	10-May-2023 2:08 AM	0:00:24	ahall	XEN-TEST
Notepad	WINBLUE-X64	Thin Clients	10-May-2023 1:49 AM	10-May-2023 1:49 AM	0:00:00	tmorris	XEN-TEST
Notepad	RDS (HTML-6545-7430)	Servers	10-May-2023 1:49 AM	10-May-2023 1:50 AM	0:01:03	ahall	XEN-TEST
Notepad	RDS (HTML-6545-7430)	Servers	10-May-2023 1:43 AM	10-May-2023 1:43 AM	0:00:12	ahall	XEN-TEST

Vacant: 2 Occupied: 0 Not Connected: 0 Unavailable: 0 Total: 2

Text-only LiveMap

Station status is updated automatically every 15 seconds. Last update: 15-October-2023 1:08:36 AM



WINBLUE

WINBLUE-X64

Reporting a Bug or an Issue

Found a bug? Please submit a bug to support@veralab.com.

If you notice any discrepancies in this document while testing in your environment, please report to us.

Thank you for using VeraLab and for taking the time to send us your feedback!