

**VeraLab™ Server
Computer Lab Management Suite
Installation and Upgrade Guide**

8.0 for Microsoft Windows

July 2017

VeraLab Server Installation Guide, 8.0 for Microsoft Windows

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- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
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If you find any errors or have any other suggestions for improvement, please indicate the document title and part number, and the chapter, section, and page number (if available). You can send comments to us in the following ways:

- Electronic mail: info@veralab.com
- Postal service:

VeraLab Inc.
12460 Mabury Rd
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USA

If you would like a reply, please give your name, address, telephone number, and (optionally) electronic mail address.

If you have problems with the software, please contact VeraLab Technical Support.

Preface

This manual is your primary source of introduction, preinstallation, installation, and postinstallation information for using VeraLab Computer Lab Management Suite.

This preface introduces you to the VeraLab Installation and Upgrade Guide, discussing the intended audience, structure, and conventions of this document. A list of related VeraLab documents is also provided.

This preface contains these topics:

- Audience
- Organization
- Related Documentation
- Conventions

Audience

VeraLab Server Installation and Upgrade Guide for Windows is necessary for anyone installing, configuring, upgrading, or administering VeraLab Computer Lab Management Suite.

VeraLab Installation and Upgrade Guide is intended for Computer Lab Managers, Administrators, Technicians, and other lab personnel who perform the following tasks:

- Manage computer lab facility and personnel
- Perform system installation, administration, upgrades, and setup

To use this document, you need:

- Windows Vista, Windows 7, Windows 8.1, Windows 10, Windows 2008, Windows 2008 R2, Windows Server 2012 or Windows Server 2012 R2 installed and tested on your computer system

Organization

This guide contains the following chapters and appendixes:

Chapter 1, Preinstallation Requirements

This chapter describes preinstallation requirements, third-party software, and operating system requirements for VeraLab system for Windows.

Chapter 2, VeraLab Installation

This chapter describes how to install and uninstall VeraLab system for Windows.

Chapter 3, Postinstallation Configuration

This chapter identifies postinstallation configuration tasks. Where appropriate, this chapter references other guides for procedures on performing these configuration tasks.

Chapter 4, VeraLab Upgrade

This chapter identifies product upgrade tasks. Where appropriate, this chapter references other guides for procedures on performing these configuration tasks.

Related Documentation

This guide is a part of a set for computer lab personnel using VeraLab Computer Lab Management Suite. The other guides in the set are:

- VeraLab Administrator's Guide

- VeraLab User's Guide
- VeraLab Client Installation Guide

To download free release notes, installation documentation, white papers, or other collateral, please visit www.veralab.com.

Conventions

This section describes the conventions used in the text of this documentation set. We use various conventions in text to help you more quickly identify special terms. The following table describes those conventions and provides examples of their use.

Convention	Meaning	Example
Bold	Bold typeface indicates screen elements, such as elements of forms or menu items.	Select the Available checkbox.
<i>Italics</i>	Italic typeface indicates book titles or emphasis.	You <i>can not</i> make currently used workstations unavailable.
<i>Bold Italics</i>	Bold and Italic typeface indicates screen names and areas.	The screen changes to <i>Dashboard</i> .
<>	Angle brackets enclose variables or optional items.	The <i>Dashboard</i> <code><counter_name></code> page appears for that counter.

Preinstallation Requirements

This chapter guides you through the VeraLab preinstallation procedures. This chapter covers the following topics:

- [System Requirements](#)
- [Third-Party Software](#)

System Requirements

Software requirements for VeraLab Server

The following table shows the supported software environment.

Requirement	Value
System Architecture	32-bit and 64-bit
Operating System	VeraLab for Windows is supported on the following operating systems: <ul style="list-style-type: none">• Windows Vista.• Windows 7, Windows 8.1, Windows 10.• Windows Server 2008 and 2008 R2.• Windows Server 2012 and 2012 R2.
Network Protocol	<ul style="list-style-type: none">• TCP/IP• TCP/IP with SSL

Hardware Requirements for VeraLab Server

The following hardware components are required for VeraLab Server:

- RAM: 2 GB minimum, 4 GB recommended.
- Virtual memory: double the amount of RAM.
- Hard disk space: 300 MB minimum for custom installation (without database), 500 MB minimum for full installation, 1GB recommended.
- Processor: 700 MHz minimum, 2 GHz recommended.
- Video adapter: 256 color.

Verifying Hardware Requirements

To ensure that the system meets these requirements, follow these steps:

1. Determine the physical RAM size. For a computer using Windows 7, for example, open **System** in the control panel. If the size of the physical RAM installed in the system is less than the required size, then you must install more memory before continuing.

2. Determine the amount of free disk space on the system. For a computer using Windows 7, for example, open **Start ► Computer**, right-click the drive where the VeraLab software is to be installed, and choose **Properties**.

Third-Party Software

Web Browser Support

The following Web browsers are supported for VeraLab:

- Microsoft Internet Explorer 10 or higher. IE11 or higher is recommended.
- Google Chrome and Chromium-based browsers 34.0 or higher.
- Mozilla FireFox 24.0 or higher.
- Safari 6.0 or higher.

Although it is not required, VeraLab recommends using the latest versions of service packs for security purposes.

Database and Application Server

We bundle Tomcat 8.5.4 as a J2EE application server and PostgreSQL 9.5.3 for your convenience. You have an option not to install PostgreSQL as a part of installation process. Instead you can use your own copy of PostgreSQL database server. Current version of VeraLab has been tested and certified with PostgreSQL 9.5.3.

VeraLab Installation

This chapter guides you through the VeraLab installation procedures. This chapter covers the following topics:

- [Installing VeraLab](#)
- [Uninstalling VeraLab Components and Services](#)

Installing VeraLab

You can download the VeraLab software from the VeraLab Web site. This chapter describes how to install VeraLab from hard disk.

Before You Install VeraLab

Perform the following tasks before installing VeraLab Server:

1. Review and satisfy applicable system and component requirements in Chapter 1, “Preinstallation Requirements”. Review our FAQ page: <http://veralab.com/faq.jsp>
2. Log on as a member of the Administrators group to the computer on which to install VeraLab components. Log on as a member of the Domain Administrators group if you are installing on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC).
3. Back up any databases that are currently installed on the node.
4. Verify ports 8080 and 8443 (for SSL) are available and no other application is using them. For example, to check if port 8080 is busy, run “telnet localhost 8080” from command prompt on the server. If you get a blank screen, something else is using that port.

Downloading VeraLab Software from the Web Site

To download the installation files:

1. Use any browser to access the software download page:
http://www.veralab.com/downloads_vl.jsp
2. Select a file system with enough free space to store and expand the files. On the file system that you just selected, create a temporary directory.
3. Download the executable file to the directory that you just created.
4. If you are upgrading from previous version go to [Upgrading VeraLab](#) chapter of this guide.

Installing VeraLab Software

Run the downloaded executable file and install the software, as follows:

Screen	Recommended Action
Welcome to the VeraLab Server Setup Wizard	Click Next

Screen	Recommended Action
License Agreement	Read the License Agreement and select the I accept the agreement radio button. Click Next
Select Destination Location	You can accept the default value (recommended) or select a different directory. Click Next
Select Components	Select Full Installation or Custom Installation from the drop-down list. Click the PostgreSQL Server 9.5 checkbox to select or deselect the database component. Select Demo Data checkbox for test / non-production installations. Demo Data contains records for the year of 2012. When running Demo reports, please select time periods within the year of 2012. Click Next
Select Sign-In Mode	Select Mixed Mode if you are evaluating VeraLab product or you have an environment with both Self-Service (or LDAP/MSAD integrated) workstation Sign-In and assign workstations to students via Counters. Select Self-Service Mode if you have only self-service sign-in directly at client workstations via MSAD or LDAP. Select Counter Mode if you assign students to workstations only via counters. Note: you can switch to a different sign-in mode after installation using application Settings. See Administrator's Guide for details. Click Next
Select Start Menu Folder	Accept the default value (recommended) or type in a custom name. Click Next
Ready to Install	Review the information displayed, then click Install . The installation may take several minutes.
Completing the VeraLab Server Setup Wizard	Select the components you wish to start automatically upon completion. Click Finish

Installing VeraLab Software in a Multi-Node Environment

When installing VeraLab application in a multi-node environment or in a single-node environment with pre-installed PostgreSQL database, additional manual setups are required. Please review the following prerequisites are met before running installation:

Note Below steps have been certified for PostgreSQL versions 9.5 and higher.

1. PostgreSQL software is installed either on the same server that is running VeraLab application or a separate server box (if using multi-node architecture). It is not required to configure database. By default, Veralab application is using database named “veralab”. If you prefer to create database manually, we recommend giving it “veralab” name.
2. Connectivity from Veralab server to PostgreSQL server is open. Please make sure that there is no Firewall or ACL rule blocking access to PostgreSQL database. By default, PostgreSQL is using TCP port 5432.
3. Create VeraLab user account in the existing instance of PostgreSQL. That user will own the database objects required for VeraLab product to function. When VeraLab is installed in distributed environment with a database configured on another server, **veralab** user (the owner of **veralab** database) must have permissions for external connections by editing `pg_hba.conf` file. See PostgreSQL reference for details:

<http://www.postgresql.org/docs/current/static/auth-pg-hba-conf.html>.

To create database user for VeraLab, run below command from PostgreSQL prompt.

```
create user veralab with createdb password 'veralab';
```

Once you are ready with above prerequisites you can continue installing Veralab application. Start the installer by running `veralab_server_setup.exe` file and follow the steps below:

Screen	Recommended Action
Welcome to the VeraLab Server Setup Wizard	Click Next
License Agreement	Read the License Agreement and select the I accept the agreement radio button. Click Next
Select Destination Location	You can accept the default value (recommended) or select a different directory. Click Next

Screen	Recommended Action
Select Components	<p>Select Custom Installation from the drop-down list. Uncheck the PostgreSQL Server 9.5 checkbox to deselect the database component.</p> <p>Click Next</p> <p>If you have PostgreSQL already installed on the same server where you are installing VeraLab, you will see a Components Exist notification.</p> <p>Click Yes to continue.</p>
Select Sign-In Mode	<p>Select Mixed Mode if you are evaluating VeraLab product or you have an environment with both Self-Service (or LDAP/MSAD integrated) workstation Sign-In and assign workstations to students via Counters. Select Self-Service Mode if you have only self-service sign-in directly at client workstations via MSAD or LDAP. Select Counter Mode if you assign students to workstations only via counters.</p> <p>Note: you can switch to a different sign-in mode after installation using application Settings. See Administrator's Guide for details.</p> <p>Click Next</p>
Select Start Menu Folder	<p>Accept the default value (recommended) or type in a custom name.</p> <p>Click Next</p>
Ready to Install	<p>Review the information displayed, then click Install. The installation may take several minutes.</p>
Completing the VeraLab Server Setup Wizard	<p>Select Start Page component to start automatically upon completion and deselect Launch VeraLab component.</p> <p>Note: You will need to follow below manual setups to complete configuration with PostgreSQL database before running VeraLab application.</p> <p>Click Finish</p>

In order to complete VeraLab configuration with pre-installed PostgreSQL database please do the following.

Modify config files

1. C:\Veralab\tomcat\webapps\veralab\WEB-INF\sql\postgresql\settings.bat.

Sample file looks like this:

`create-pgsql-db.bat` - (Optional step. If database has not been created yet, this script will create veralab database).

`app-data-init.bat` - (Required script. The script will initialize all metadata).

Now VeraLab application is configured. You can start VeraLab Tomcat Service and proceed to the login page.

Connecting to VeraLab

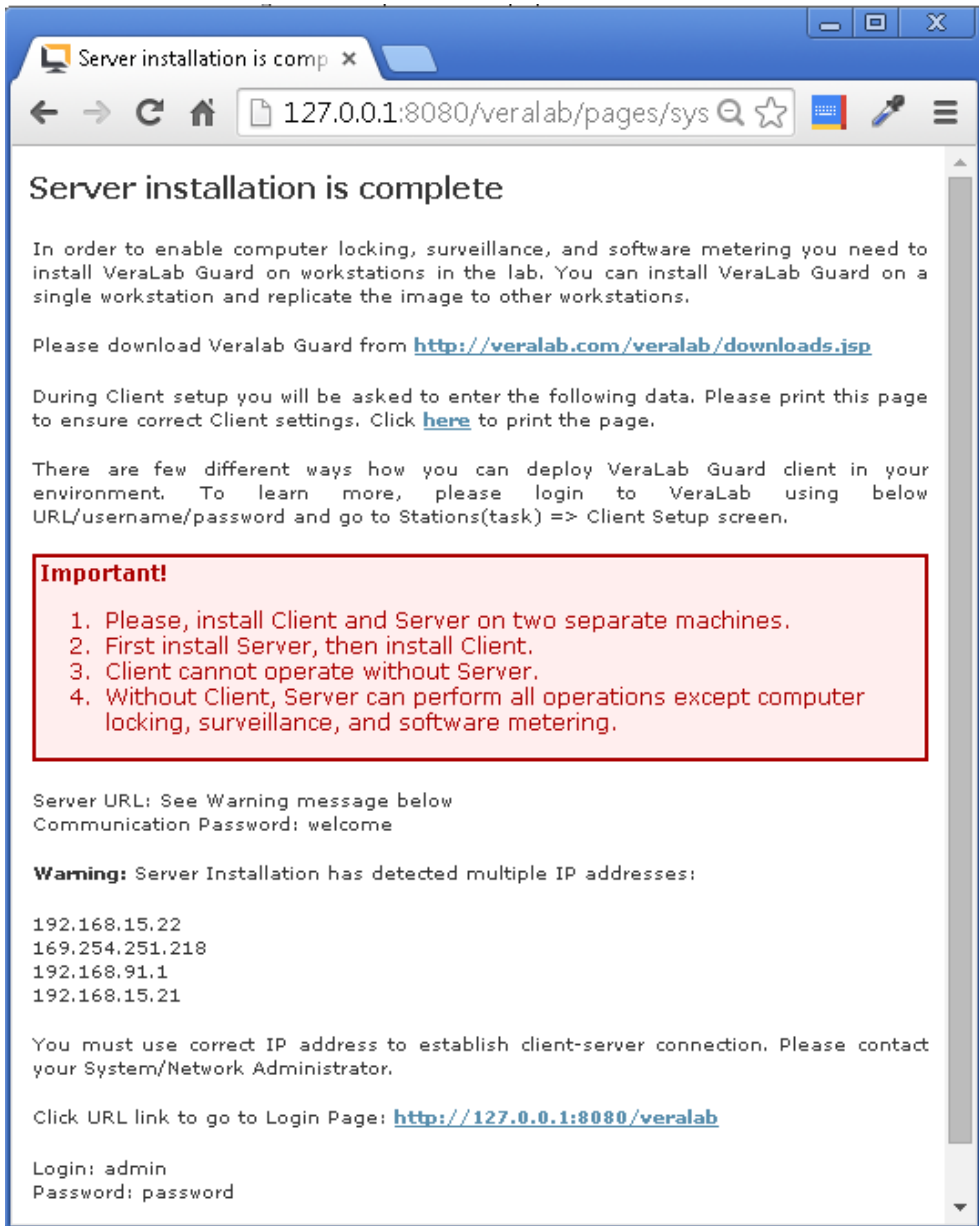
After installation, by default, a new browser window will open a Start Page. Please wait a couple of minutes for Windows Services to initialize. Once all services are started you will see a new icon with letters “VL” in the system tray.

To start using VeraLab Computer Lab Management Suite, open a browser and go to VeraLab login page:

<https://127.0.0.1:8443/veralab>

Note When using HTTPS connection, you will see a warning page “Certificate Error: Navigation Blocked” or similar, depending on your browser type and version. Click “Continue to this website (not recommended).” to continue to login page. To avoid SSL error message, you will need to purchase a certificate from SSL Authority or use a non-secure connection <http://127.0.0.1:8080/veralab>.

After the first installation, you will see an informational page.



The default username and password are:

- username: admin
- password: password

Click on <http://127.0.0.1:8080/veralab> link to open login screen.



VERA LAB

Welcome to VeraLab

User Name *

Password *

Remember me

Login

[Student Portal](#)

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Note For more information, refer to *Administrator's Guide* and *User's Guide*.

Uninstalling VeraLab Components and Services

To uninstall VeraLab Computer Lab Management Suite and all its components:

1. Log on as a member of the Administrators group to the computer on which you installed VeraLab Server components.
2. Go to **Start ► Control Panel ► Add or Remove Programs**, and select **Veralab Server**.
3. Click **Remove**.

Note The installation directory (default is C:\Veralab) and underlying PostgreSQL database files do not get removed automatically upon completion. It is safe to remove them manually. If you are uninstalling and re-installing VeraLab as a single-box installation from scratch it is recommended to remove C:\Veralab directory before next fresh installation. Upgrades should be performed on top of existing installation, no uninstallation or other manual steps are usually required (unless instructed by VeraLab Support).

Postinstallation Configuration

This chapter guides you through the VeraLab postinstallation procedures. This chapter covers the following topics:

- [Reviewing Installed Components](#)
- [Using VeraLab Server Manager](#)
- [Admin Account](#)

Reviewing Installed Components

VeraLab installs and configures the following Windows Services:

- VeraLab Apache Tomcat
- postgres

These services are configured for Automatic Startup Type. You may want to change them to Manual if required.

To view services and their status, go to **Start ► Control Panel ► Administrative Tools ► Services**.

By default, **VeraLab Apache Tomcat** Service is configured to listen on TCP port 8443 (HTTPS) and 8080 (HTTP). If for any reason the default VeraLab ports are already used by some other software on your system you can change ports either from VeraLab Server Manager or in the following file:

%VERALAB_INSTALL_DIRECTORY%\tomcat\conf\server.xml

Locate the following lines and change the port number:

```
<Service name="Catalina">  
  <Connector port="8443" />
```

Note For more information, refer to *The Apache Jakarta Tomcat 5* manuals. You can find an example of SSL configuration on our FAQ web page at: http://veralab.com/veralab/guard_faq.jsp

Using VeraLab Server Manager

Upon successful installation, VeraLab services are started automatically. A new icon with letters VL will be placed in the system tray (usually bottom-right corner of the screen).

VeraLab Server Manager has the following menu (use mouse right-click):

Menu	Description
Open Server Manger	Selecting this menu item will bring up VeraLab Server Manager Console, which is designed to Start/Stop/Restart Apache and/or PostgreSQL.
Start Page	Selecting this menu item with open new browser window with login page. Note that HTTPS URL will be opened. To use HTTP, remove "s" and change port number to 8080.
Start VeraLab	Selecting this menu item will start VeraLab Web Service on the server. This selection will be disabled if VeraLab Web Service is already running.
Stop VeraLab	Selecting this menu item will stop VeraLab Web Service on the server. This selection will be disabled if VeraLab Web Service is not running.
Restart VeraLab	Selecting this menu item will stop and start VeraLab Web Service on the server. This selection will be disabled if VeraLab Web Service is not running.
Settings...	Selecting this menu item will bring up Settings control panel. Ports, Startup type (automatic or manual), Java Machine size, and Server Manager ping interval can be modified there.
Backup Data	Selecting this menu item will start VeraLab database backup. A warning message that VeraLab application will be shutdown during backup will be displayed. After clicking OK button, a new window will prompt to accept default or specify another backup file location.
About	Selecting this menu item will display version information.

Menu	Description
Exit	Selecting this menu item will close and remove Server Manager from system tray. To launch it again, use Start ► All Programs ► VeraLab Server navigation.

Admin Account

Admin User

VeraLab comes with the predefined user account, *admin*, that has privileges for performing any task in the VeraLab system, including setting up the system and creating other user accounts. Admin user has access to other roles in VeraLab application by default. You can modify admin's default settings by going to **Users** ► Click **Edit** icon next to the admin user record. However, it is recommended to create new users and assign required roles and rights to them. You can not delete your own account while logged in. In order to delete a user with Administrator role, you need to login under a different administrative user account.

The default password for the admin user is *password*. VeraLab recommends changing the password for the admin user immediately after successful installation. You can also delete or deactivate this account, once you create your custom VeraLab Administrator users. You can create as many administrator accounts as required.

Changing the admin User Password in VeraLab

To change the password of the user admin:

4. Log into *VeraLab* as the admin user.
5. Navigate to **Setup** ► **Users**.
6. Click Edit icon next to the user.
7. In the *Edit Employee admin* page, type in a new password in the **Password** and **Repeat Password** fields.
8. Click **Update**.

Note For more information, refer to *Administrator's Guide*.

VeraLab Upgrade

This chapter guides you through the VeraLab upgrade procedures. This chapter covers the following topics:

- [Upgrading VeraLab](#)

Upgrading VeraLab

You can download VeraLab software from the VeraLab Web site www.veralab.com.

Warning This chapter describes how to upgrade VeraLab application from a previous version starting with 2.3 or higher. We strongly recommend to contact VeraLab Support if you have any customizations on top of the out-of-the-box version.

Before You Upgrade VeraLab

Perform the following tasks before upgrading VeraLab Server:

1. Review applicable system and component requirements in Chapter 1, “[Preinstallation Requirements](#)”
2. Log on to the VeraLab Server box as a member of the Administrators group. Log on as a member of the Domain Administrators group if you are installing on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC).
3. Perform full system backup.

Downloading VeraLab Software from the Web Site

To download the latest installation files:

1. Use any browser to access the software download page:
http://www.veralab.com/downloads_vl.jsp
2. Select a file system with enough free space capable to store and expand files. On the file system that you just selected, create a temporary directory.
3. Download the executable file to the directory that you just created.

Upgrading VeraLab Software

Run the downloaded executable file and follow the steps below:

Screen	Recommended Action
Welcome to the VeraLab Server Setup Wizard	Click Next

Screen	Recommended Action
<p>License Agreement</p>	<p>Read the License Agreement and select the I accept the agreement radio button.</p> <p>Click Next</p>
<p>Select Upgrade Operation</p>	<p>Select Upgrade VeraLab Server to upgrade from a previous release. Upgrade program will perform a backup of your previous installation, install new application files and database, import old database, and perform upgrade to current release.</p> <p>Select Remove and Install option if you are ready to wipe out your previous installation and perform fresh install. Previous setups will not be transferred or upgraded.</p> <p>Select Stop and Exit to quit.</p> <p>Click Next</p>
<p>Select Destination Location</p>	<p>You can accept the default value (recommended) or select a different directory.</p> <p>Click Next</p>
<p>Select Sign-In Mode</p>	<p>Select Mixed Mode if you are evaluating VeraLab product or you have an environment with both Self-Service (or LDAP/MSAD integrated) workstation Sign-In and assign workstations to students via Counters.</p> <p>Select Self-Service Mode if you have only self-service sign-in directly at client workstations via MSAD or LDAP.</p> <p>Select Counter Mode if you assign students to workstations only via counters.</p> <p>Note: you can switch to a different sign-in mode after installation using application Settings. See Administrator's Guide for details.</p> <p>Click Next</p>
<p>Select Start Menu Folder</p>	<p>Accept the default value (recommended) or type in a custom name.</p> <p>Click Next</p>
<p>Ready to Install</p>	<p>Review the information displayed, then click Install. The installation may take several minutes.</p>
<p>Completing the VeraLab Server Setup Wizard</p>	<p>Select the components you wish to start automatically upon completion.</p> <p>Click Finish</p>

Upgrading VeraLab in a Multi-Node Environment

If you are running VeraLab in a multi-node environment where database is installed on a separate box or if you installed current version of Veralab on a server with pre-existing database, the following steps must be executed:

1. Download latest version of Veralab server (veralab_server_setup.exe).
2. Stop VeraLab Tomcat Service and backup C:\Veralab.
3. Uninstall your current VeraLab version. This step will not affect your database.
4. Install latest fresh version of Veralab. Do not select any options on the last screen **Completing the VeraLab Server Setup Wizard**.
5. Update config files as described in “Installing VeraLab Software in a Multi-Node Environment” on page 4 or copy old config files from backup location (Step 2).
6. Execute the following script:

```
cd C:\Veralab\tomcat\webapps\veralab\WEB-INF\sql\postgresql\  
upgrade_db.bat
```

Connecting to VeraLab

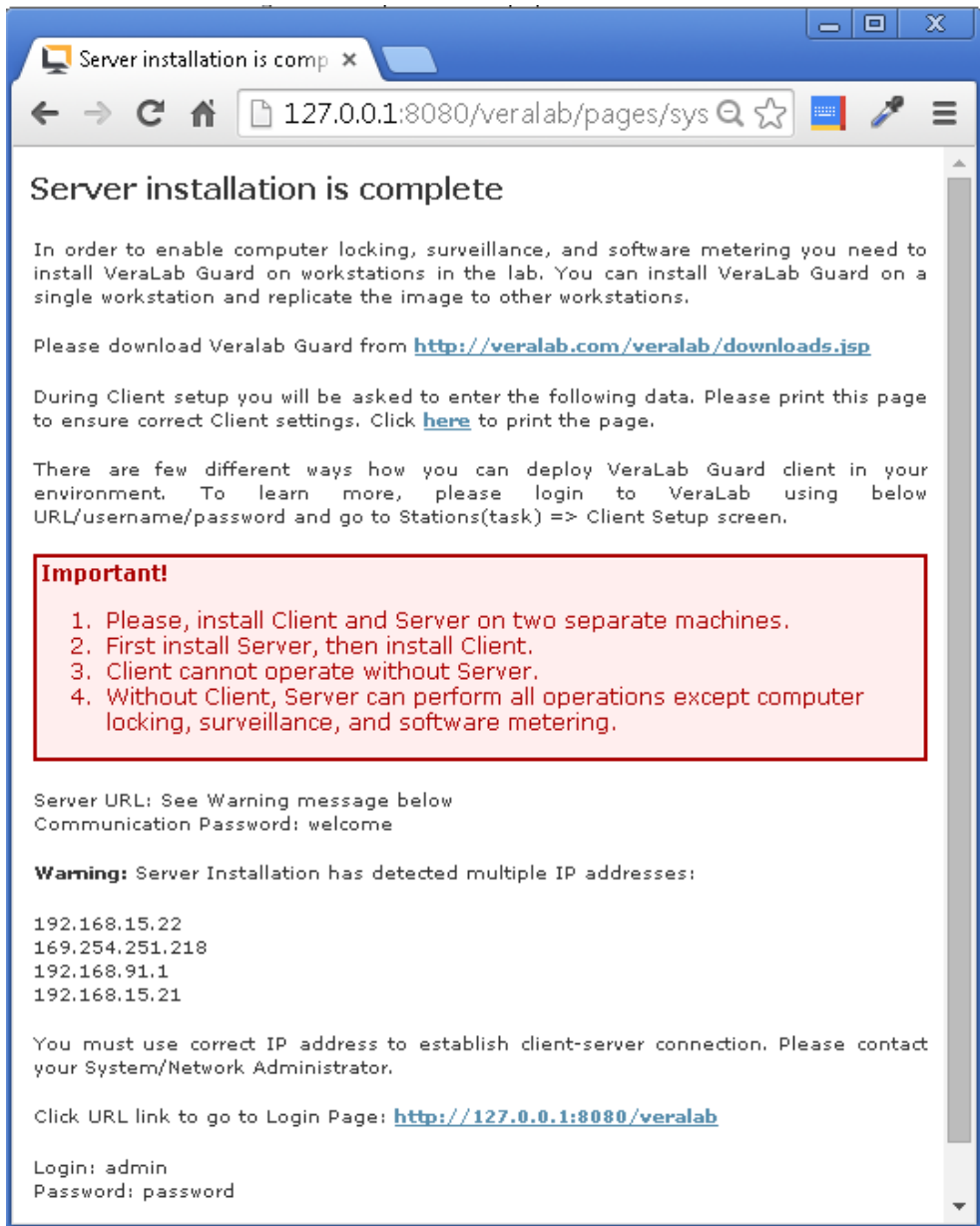
After upgrade, by default a new browser window will open a Start Page. Please wait a couple of minutes for Windows Services to initialize. Once all services are started you will see a new icon with letters “VL” in the system tray.

To start using VeraLab Computer Lab Management Suite, open a browser and go to VeraLab login page:

<https://127.0.0.1:8443/veralab>

Note When using HTTPS connection, you will see a warning page “Certificate Error: Navigation Blocked” or similar, depending on your browser type and version. Click “Continue to this website (not recommended).” to continue to login page. To avoid SSL error message, you will need to purchase a certificate from SSL Authority or use a non-secure connection
<http://127.0.0.1:8080/veralab>

After first installation, you will see an informational page.



Server installation is complete

In order to enable computer locking, surveillance, and software metering you need to install VeraLab Guard on workstations in the lab. You can install VeraLab Guard on a single workstation and replicate the image to other workstations.

Please download VeraLab Guard from <http://veralab.com/veralab/downloads.jsp>

During Client setup you will be asked to enter the following data. Please print this page to ensure correct Client settings. Click [here](#) to print the page.

There are few different ways how you can deploy VeraLab Guard client in your environment. To learn more, please login to VeraLab using below URL/username/password and go to Stations(task) => Client Setup screen.

Important!

1. Please, install Client and Server on two separate machines.
2. First install Server, then install Client.
3. Client cannot operate without Server.
4. Without Client, Server can perform all operations except computer locking, surveillance, and software metering.

Server URL: See Warning message below
Communication Password: welcome

Warning: Server Installation has detected multiple IP addresses:

192.168.15.22
169.254.251.218
192.168.91.1
192.168.15.21

You must use correct IP address to establish client-server connection. Please contact your System/Network Administrator.

Click URL link to go to Login Page: <http://127.0.0.1:8080/veralab>

Login: admin
Password: password

The default username and password are:

Upgrading VeraLab

- username: admin
- password: password

Click on <http://127.0.0.1:8080/veralab> link to open login screen.

← → ↻ ⓘ Not secure | neptune:8080/veralab/pages/login.jsp

VERALAB ☰

Welcome to VeraLab

User Name *

Password *

Remember me

[Login](#)

[Student Portal](#)

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Note For more information, refer to *Administrator's Guide* and *User's Guide*.
