VISTA

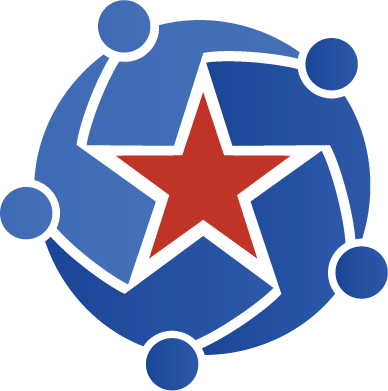
VAPALS-ELCAP

Version 18.0

Installation Guide and Release Notes

May 2019





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Revision History

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| --- | --- | --- | --- |
| **Date** | **Description** | **Language** | **Authors** |
| May 2019 | Version 18 Release | English (US) | Alexis Carlson  Kathy Ice |





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# Installation Guide

The current version of the VAPALS-ELCAP software uses the Docker container platform. These instructions walk through the process of installing Docker, then installing and starting the VAPALS-ELCAP software.

## Install Docker

### Mac

Paste the following URL into a browser:

<https://download.docker.com/mac/stable/Docker.dmg>

Double-click the DMG file and follow the instructions to install Docker.

### Ubuntu

There is an excellent guide for installing Docker on Ubuntu at

<https://docs.docker.com/engine/installation/linux/docker-ce/ubuntu/>

### Windows

The instructions for installing Docker on Windows are at

<https://hub.docker.com/editions/community/docker-ce-desktop-windows>

## Bring up a terminal session

On the Mac, you’ll just open Terminal from Applications/Utilities. On Windows and Linux, there are a number of possible terminal applications depending on your specific installation. You should be able to find a free open-source one by searching using your favorite browser.

This manual uses $ to represent the standard command-line prompt; user input will be in **boldface**. Commentary about some of the user-computer interaction will be in *italics*.

## Install the VAPALS/ELCAP Docker image

This is presently a 1.35GB download, so it will take a while. At the command line:

$ **docker pull osehra/va-pals**

Using default tag: latest

latest: Pulling from osehra/va-pals

At this point, you’ll get a line that looks like this:

*ID*: Downloading [>                                         ]

*so-far*/*total*

where *ID* is a short string of letters and numbers that identify this Docker image (for example, the latest version, as of this writing, has an *ID* of e88470e1ff51), the > bit works like a progress bar, the *so-far* value shows how much has been downloaded, and *total* shows the size of the download. Once the download is complete, that line gets replaced with a very similar one that looks like this:

*ID*: Extracting [>                                          ]

*so-far*/*total*

Again, that will take a while. When that process is complete, you’ll get the following lines:

*ID*: Pull complete

Digest: sha256: *a long checksum value*

Status: Downloaded newer image for osehra/va-pals:latest

$ \_

## Start the VAPALS/ELCAP Docker container

Once you have the image installed, you can start the container itself. At the command line:

$ **docker run --detach --name vapals --hostname vapals \**

**-p 2222:22 -p 8001:8001 -p 8080:8080 -p 8888:8888 \**

**-p 9080:9080 -p 9430:9430 -P --entrypoint "/bin/sh" \**

**osehra/va-pals -c /home/osehra/bin/start.sh**

*a very long container id*

$ \_

At that point, the Docker container is running in the background, and Vista has started.

## Log into the container

At the command line:

$ **ssh -p 2222 root@localhost**

root@localhost's password: **docker** *note: this won’t show up when you type it*

[root@vapals ~]# **osehra** *(the '#' is the root user's prompt)*

Unless you’re confident that your firewall is configured to block external requests to port 2222, you might want to change the root user’s password. To do so:

[osehra@vapals ~]$ **exit**

[root@vapals ~]# **sudo passwd**

New password:

Retype new password:

passwd: all authentication tokens updated successfully.

[root@vapals ~]# **osehra**

## Update Vista

While you now have the latest version of the Docker image running, Vista and the VA-PALS ELCAP application might be months old. Snapshots of the primary development environment are created every night, and your container includes a script to update itself using the latest such snapshot. You need not necessarily do this every day, but you should certainly do so initially.

At the command line:

[osehra@vapals ~]$ **bin/update-vista.sh**

## Use the web application

### Authentication

By default the VA-PALS ELCAP application requires authentication with the access and verify codes of a Vista user with CPRS permissions. For the purposes of testing or demonstration you might wish to disable authentication.

To disable access/verify authentication:

[osehra@vapals ~]$ **mumps -dir**

VAPALS>**DO TOGOFF^SAMILOG**

To subsequently re-enable authentication:

[osehra@vapals ~]$ **mumps -dir**

VAPALS>**DO TOGON^SAMILOG**

You can also use the credentials of a pseudo-user (USER,VAPALS) to test the application with authentication enabled.  That user’s access code is HFLU+3456, and the verify code is SERMAR+4321. The access and verify codes are also saved in plain text, separated by a semicolon, as a Vista parameter. To find them from the Mumps command line:

VAPALS>**S DUZ=1 D ^XUP**

Setting up programmer environment

This is a TEST account.

Terminal Type set to: C-VT220

Select OPTION NAME: **<Enter>**

VAPALS>**D ^XPARLIST**

Select PARAMETER DEFINITION NAME: **SAMI**

    1 SAMI ACCVER     SAMI ACCVER

    2 SAMI DEFAULT CLINIC IEN     SAMI DEFAULT CLINIC IEN

    3 SAMI DEFAULT PROVIDER DUZ     SAMI DEFAULT PROVIDER DUZ

    4 SAMI DEFAULT STATION NUMBER     SAMI DEFAULT STATION NUMBER

    5 SAMI IP ADDRESS     SAMI IP ADDRESS

Press <Enter> to see more, '^' to exit this list,  OR

CHOOSE 1-5: **1**  SAMI ACCVER SAMI ACCVER

Values for SAMI ACCVER

Parameter                      Instance Value

----------------------------------------------------------------------------

SYS: AVICENNA.VISTAEXPERTISE.N 1                    SEPI9393;Pvul+9339

Type <Enter> to continue or '^' to exit: **<Enter>**

VAPALS>

### The web application

To start using the web application, open a browser and in the URL field type or paste <http://localhost:9080/vapals>. If you have disabled authentication, the web application will load in your browser. If authentication is enabled, you can enter the credentials listed in the previous section when the sign-in dialogue appears.

## Stop a VA-PALS Docker container

[osehra@vapals ~]$ **cd**

[osehra@vapals ~]$ **bin/stop.sh**

[osehra@vapals ~]$ **exit**

[root@vapals ~]# **exit**

Back at your local shell prompt:

$ **docker stop vapals**

To restart your container and Vista:

$ **docker start vapals**

$ **ssh -p 2222 root@localhost**

## Move files to your Docker container

First copy the file into your Docker container using the "scp" command.

$ **scp -P 2222 EXAMPLE.m root@localhost:/home/osehra/tmp**

The permissions of the file now need to be fixed. Start by logging back into your Docker container.

$ **ssh -p 2222 root@localhost**

root@localhost's password: **docker** *note: this won’t show up when you type it*

[root@vapals ~]# **sudo chown osehra:osehra /home/osehra/tmp/EXAMPLE.m**

Now use the "osehra" command to become the osehra user and move the file (in this case a routine) to where it belongs.

[root@vapals ~]# **osehra**

[osehra@vapals ~]$ **mv tmp/EXAMPLE.m run/routines/**

# Release Notes

Although this is the first version of the Screen Application Management: IELCAP (SAMI) software available for Vista, it has been designated as version 18.0. This is to acknowledge the 17 years of work and real-world experience the IELCAP team put into the underlying protocols.

SAMI Version 18.0 features:

* a web-based interface with a modern look and feel
* scalable screens that work with any size device
* choice of IELCAP or Lung-RADS score
* a case-management screen unique to each patient
* integration with CPRS and Vista
* customized for VA workflows based on feedback from clinicians

For a complete explanation of the software and its use, please see the User Manual.