



# IIPC GA 2019 - WCT Workshop

## Hands-on Setup Guide

Welcome to the Hands-on Setup Guide for the 2019 IIPC Web Curator Tool Workshop.

*The reality of any hands-on workshop is that things will break. We've tried our best to provide a stable virtual machine that can let you walk through the basics of using the Web Curator Tool.*

If you have any questions, please get in touch via our [Slack group](#) (*workshop-iipc-2019 channel*) or have a read of the WCT [documentation](#).

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# Setup

## Using our pre-configured VM

The WCT team have prepared a pre-configured virtual machine (VM), that has working WCT, OpenWayback and Heritrix 3 instances.

***To reduce the setup time during the Hands-on session, it is recommended that you download and install Oracle VirtualBox prior to the workshop.***

## VirtualBox

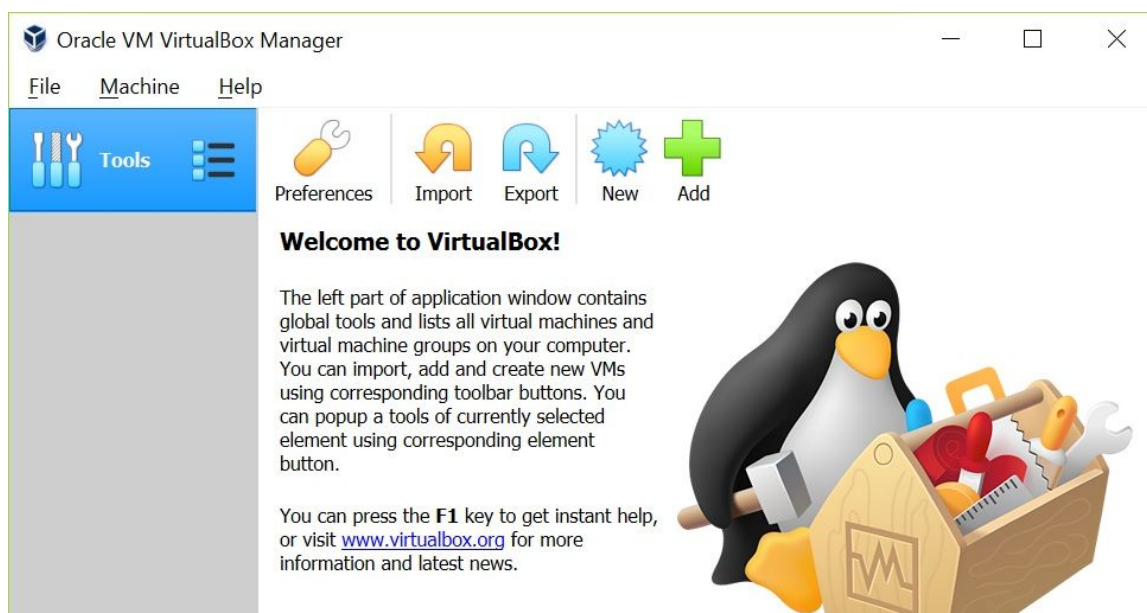
This section requires that you install the latest version of Oracle VirtualBox to run the provided VM (.ova file). VirtualBox is available for Windows, OSX and Linux. The version for your operating system can be downloaded [here](#), and installation instructions found [here](#). This VM has been tested on version **5.1** and later of VirtualBox.

## Downloading the VM

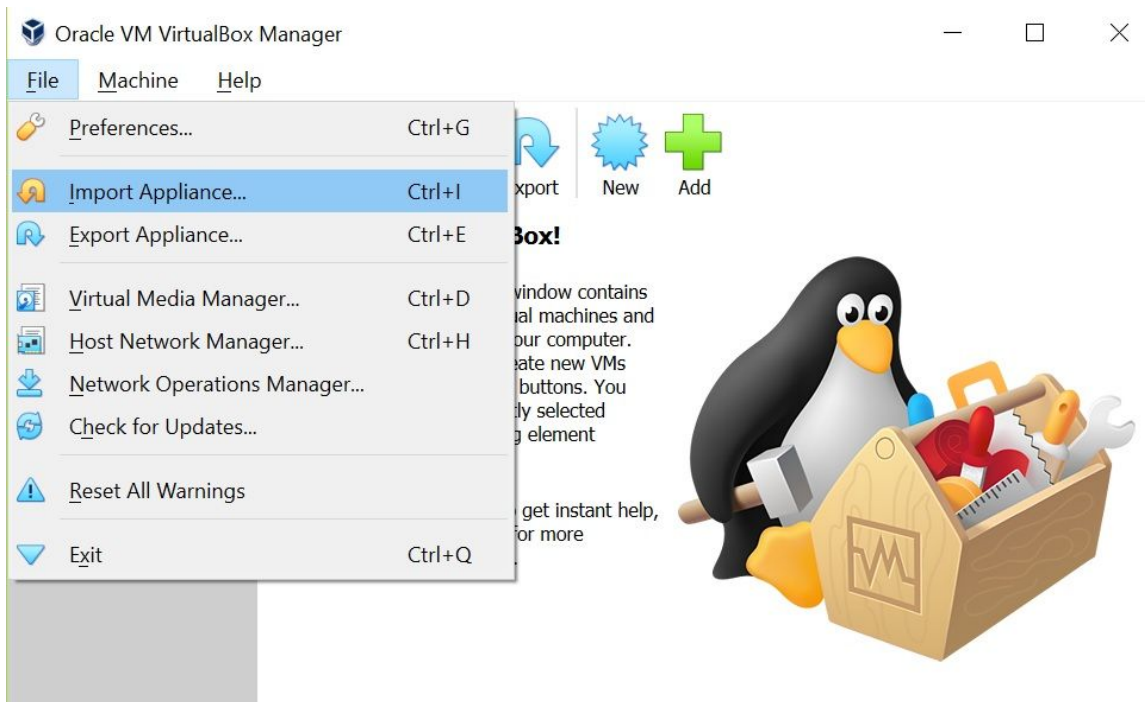
A copy of the VM will be provided on a USB stick during the workshop. ***Should you wish to download and familiarise yourself with the VM beforehand, a copy can be found [here](#).***

## Opening the VM

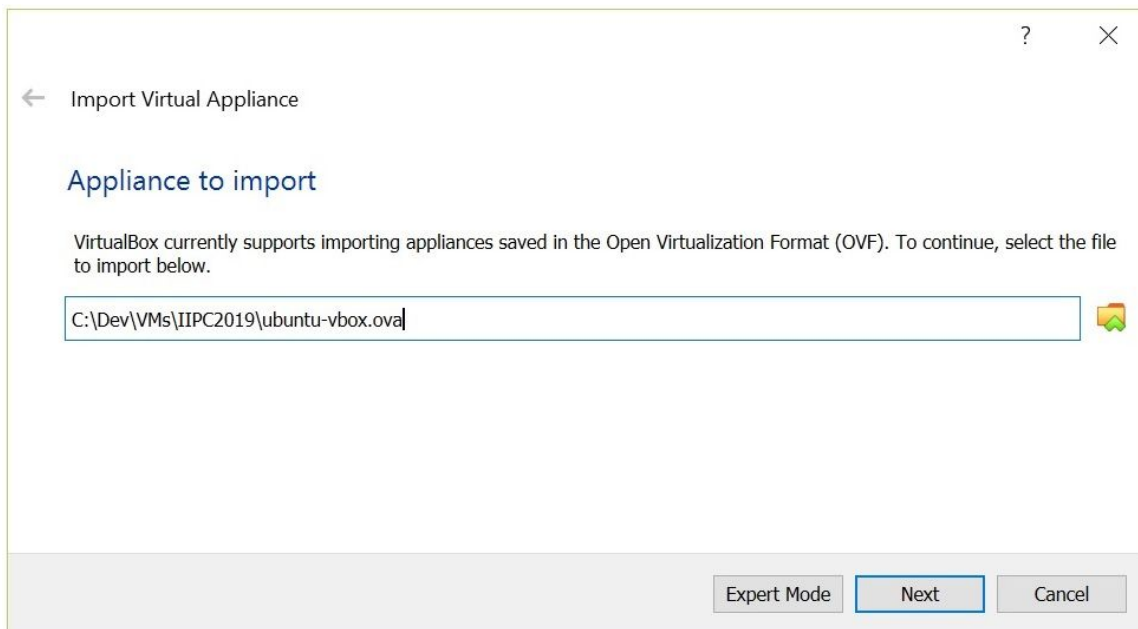
Once you have downloaded/copied the VM to an appropriate location on your computer, you can open it using VirtualBox.



## Import the VM using File->Import Appliance



## Select the VM (.ova file) to import



Specify a name, and the directory to store the imported VM

← Import Virtual Appliance

### Appliance settings

These are the virtual machines contained in the appliance and the suggested settings of the imported VirtualBox machines. You can change many of the properties shown by double-clicking on the items and disable others using the check boxes below.

Virtual System 1	
Name	Ubuntu
Guest OS Type	Ubuntu (64-bit)
CPU	1
RAM	4096 MB
DVD	<input checked="" type="checkbox"/>
USB Controller	<input checked="" type="checkbox"/>
Sound Card	<input checked="" type="checkbox"/> ICH AC97

You can modify the base folder which will host all the virtual machines. Home folders can also be individually (per virtual machine) modified.

C:\Dev\VMs\IIPC2019

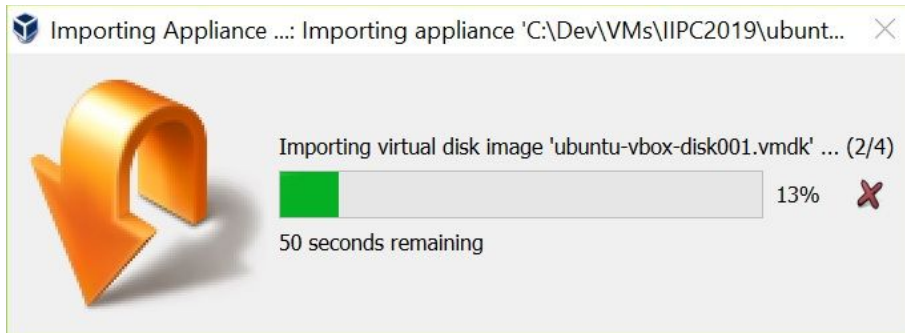
MAC Address Policy: Include only NAT network adapter MAC addresses

Additional Options:  Import hard drives as VDI

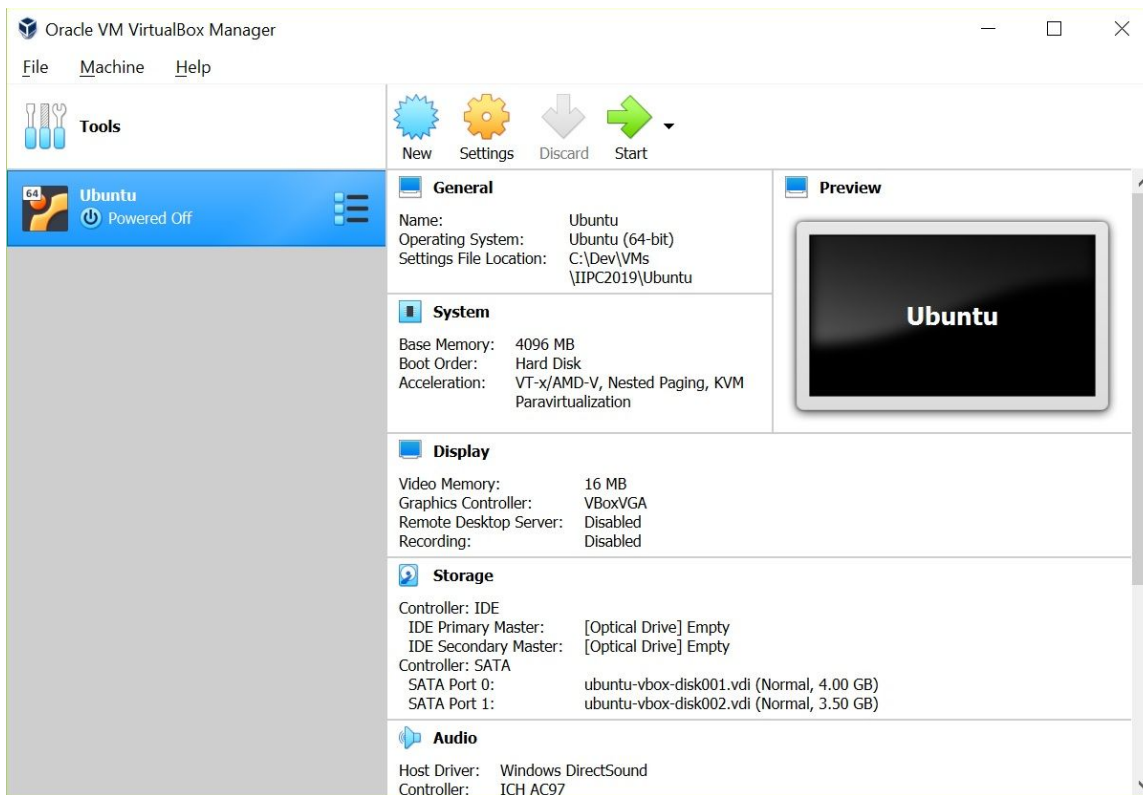
Appliance is not signed

Restore Defaults Import Cancel

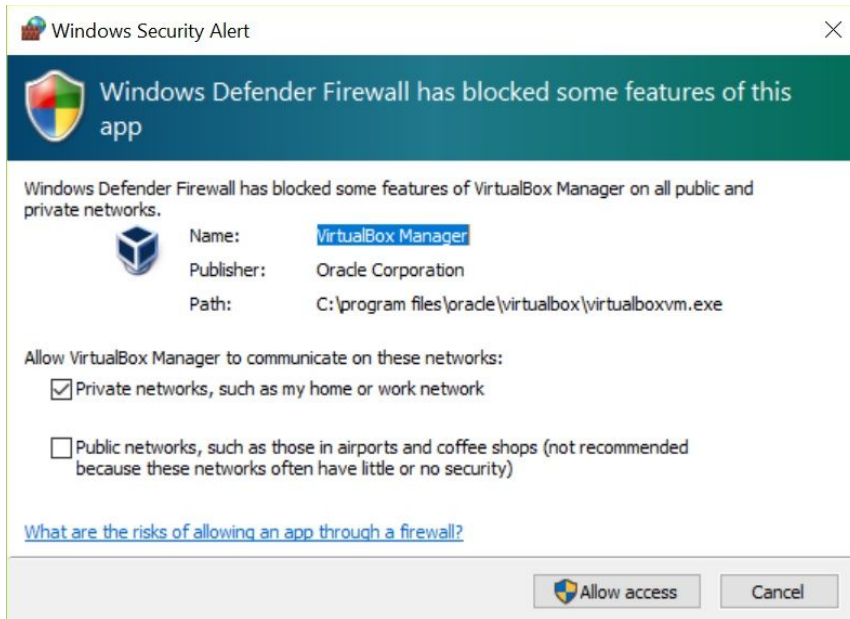
Import the .ova file, this can take some time



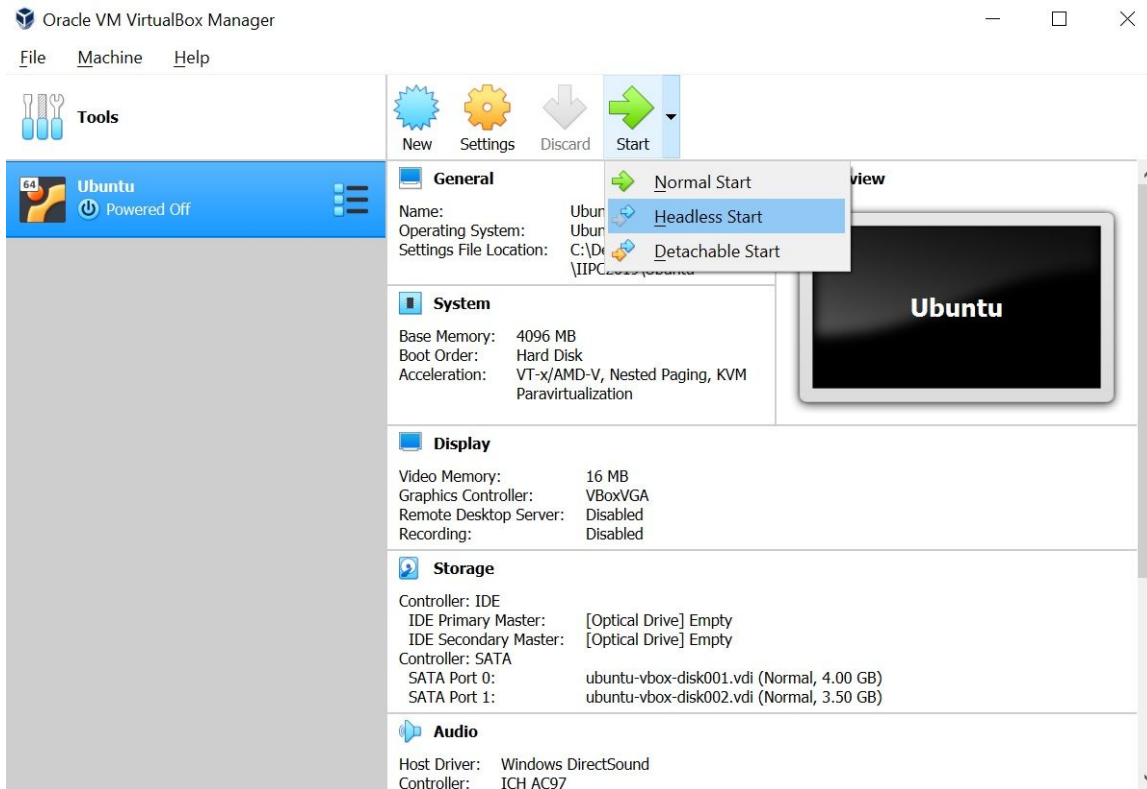
Successfully imported VM



If prompted, allow Firewall access for Virtual Box



Start the VM in headless mode



## Accessing WCT

WCT can be accessed using a browser running on your regular operating system (i.e. outside of the VM). The location is <http://localhost:3080/wct/>.

Username: wct

Password: Zagreb19

## Logging into the VM

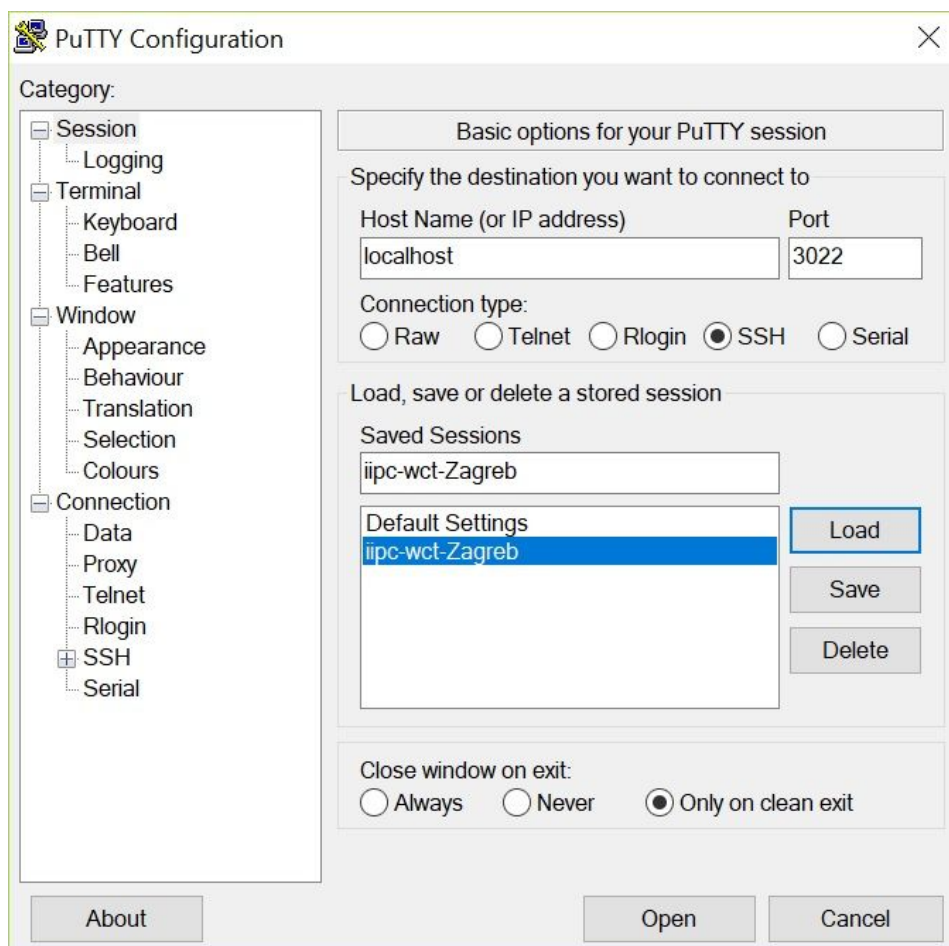
You can log into the VM through your command line, using ssh: **ssh -p 3022 wct@localhost**.

Username: wct

Password: wct

This is also the password for sudo access.

Or using [Putty](#)



## Where things are

### WCT

The WCT directories are all under **/opt/wct**.

- The harvest agent stores its files in **/opt/wct/harvest-agent**.
- The store uses **/opt/wct/store**.
- All components log to files in **/opt/wct/logs**.
- [Heritrix scripts](#) for use within the WCT script console can be placed in **/opt/wct/h3scripts**.

### Apache Tomcat

The Tomcat directory is **/opt/wct/apache-tomcat-9.0.19**. Tomcat is started automatically as a systemd service (called 'tomcat') when the system boots.

### MYSQL

You can log into MariaDB using **mysql -u root -p**. The password is "password". A basic WCT database has been provided, containing everything needed to start configuring and running crawls.

### Heritrix 3

Heritrix can be found in **/opt/wct/heritrix-3.4.0-20190418**. Like Tomcat, Heritrix is also started as a systemd service (called 'heritrix'). You can access the web interface at <https://localhost:3443/engine>.

Username: admin

Password: admin

### OpenWayback

In this setup WCT uses OpenWayback to display harvest results. This OpenWayback has been deployed in the same Tomcat as WCT itself. It expects its WARC files in **/opt/wct/wayback**. It can be accessed at <http://localhost:3080/owb/wayback/>.

### Digital repository

This WCT has been configured to use a filesystem-based digital repository, which amounts to just a directory to copy WARC files to. This directory is **/opt/wct/warc-repository**.



## Crawling

The Heritrix 3 instance is configured with the following user agent string:

**Mozilla/5.0 (compatible; heritrix/3.4**

**+https://docs.google.com/document/d/1SZq2EV5Q0PxCMiU0hcII158gita9LU5CqJ5xKBUtAr0)**

This URL will be valid until the end of this workshop. If you wish to continue using this VM after the workshop, please update the user agent string within the WCT profiles to a URL relevant to your institution.

## Installing your own WCT

Should you wish to install WCT yourself, in your own environment, there are several guides available:

- [a quick start guide to installing WCT.](#)
- [a comprehensive System Administrator guide for installing WCT.](#)

## Resources

[Documentation](#)

[Slack](#)

[Github](#)