

Manual para la instalación del PyCPT en el SO Windows

Bch. Javier Chiong Ravina

PASOS

Configuración de la BIOS

Descarga e instalación de VirtualBox

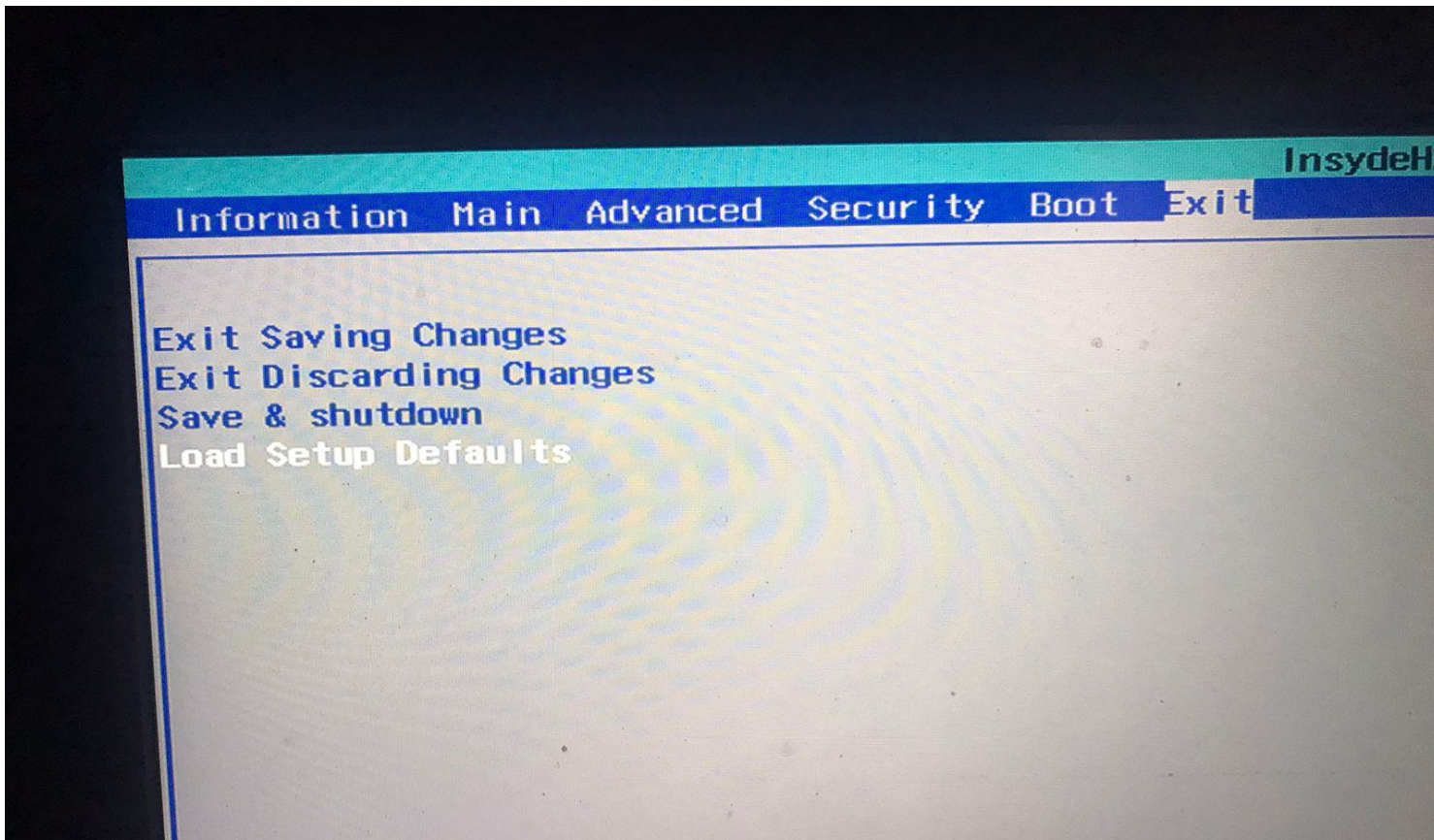
Descarga e instalación de las extensiones de Virtual Box

Instalación del IRI PyCPT Ubuntu

Acceso al script principal de PyCPT



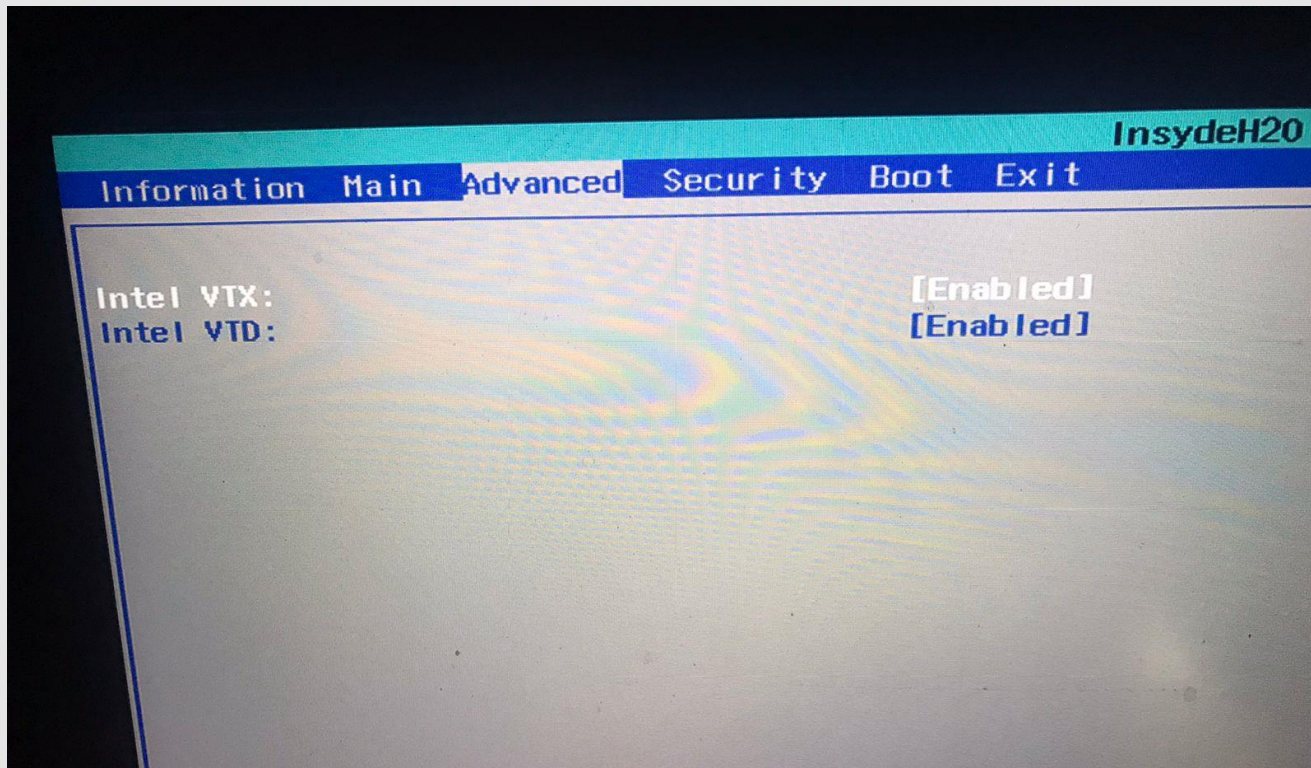
CONFIGURAR LA BIOS



- Reiniciar la computadora
- Acceder a la BIOS (presionar delete/F1/F2 dependiendo del sistema)
- Seleccionar: Restore Defaults, Restore Optimized Defaults o Load Setup Defaults (dependiendo de la Bios) luego seleccionar Save & Exit
- Apagar la computadora

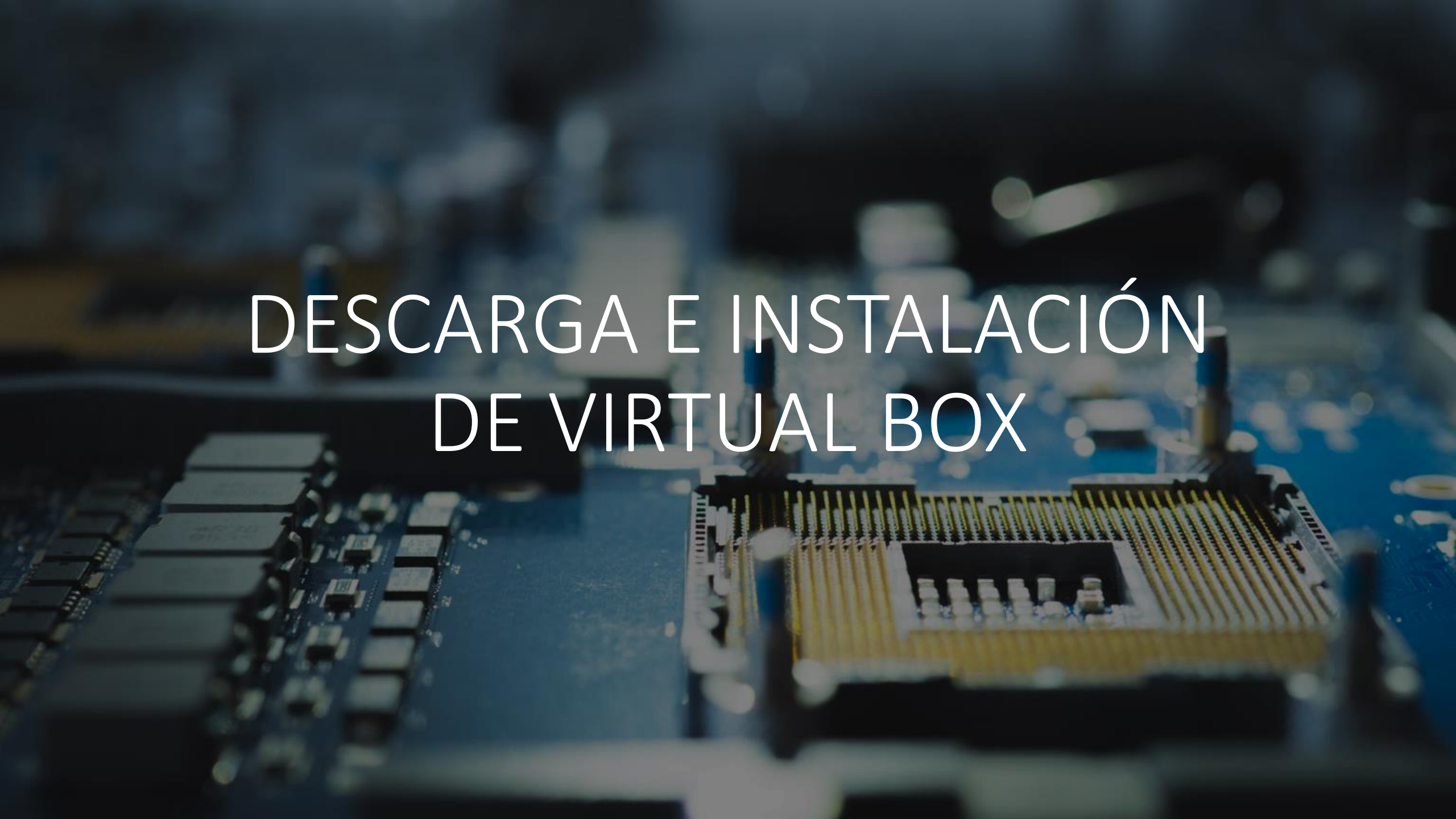
Configuración de la Bios

Habilitando las extensiones de virtualización en BIOS

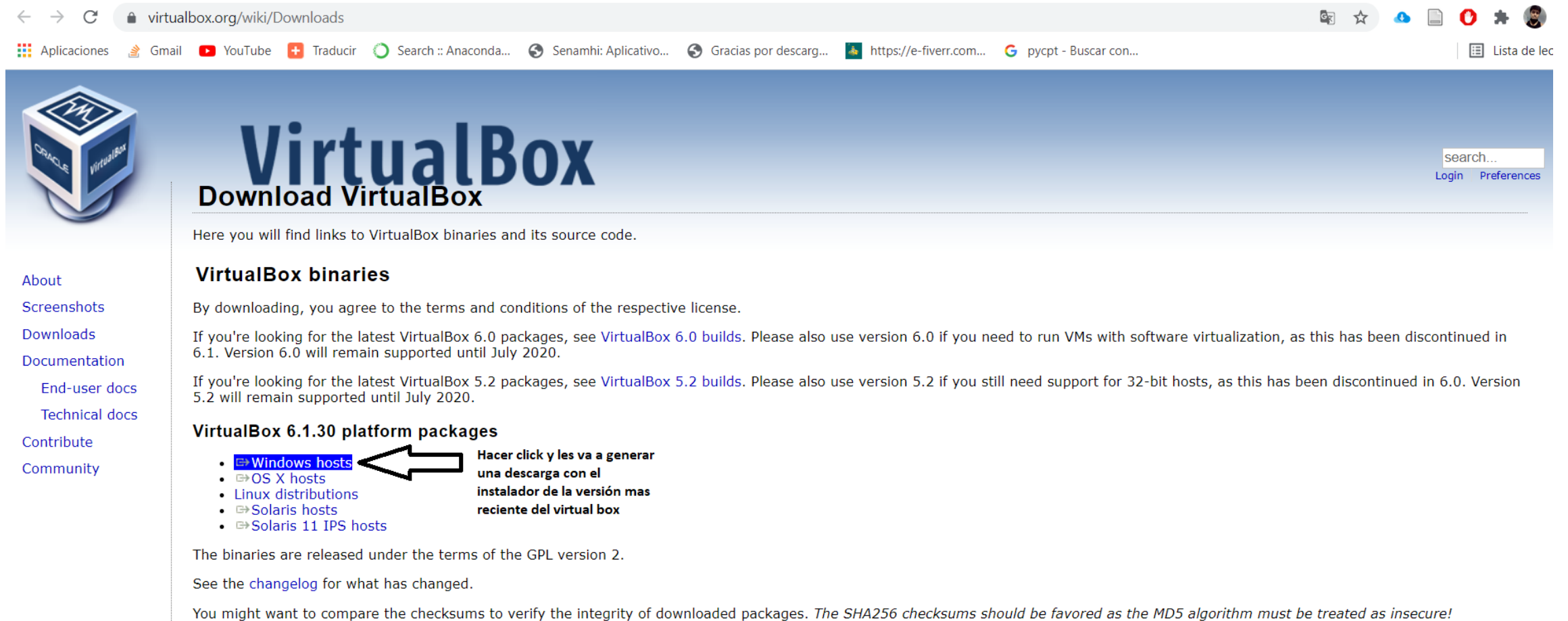


- Encender la computadora e ingresar a la BIOS
- Abrir el menu Processor. Puede estar oculto en la opciones de Chipset, Advanced Configuration CPU, Northbridge
- Activar la opcion Intel Visualization Technology (Intel VT ó AMD-V). Las extensions de virtualizacion pueden estar etiquetas como Virtualization Extensions, Vanderpool, etc. Dependendiendo de la OEM y BIOS.
- Activar Intel VTd o AMD IOMMU, si las opciones estan disponibles.
- Seleccionar Save & Exit
- Apagar la computadora

DESCARGA E INSTALACIÓN DE VIRTUAL BOX



Acceder al link Windows hosts y descargar el archivo del instalador



The screenshot shows the VirtualBox website's download page. The browser's address bar displays 'virtualbox.org/wiki/Downloads'. The page features the VirtualBox logo and a search bar. A sidebar on the left contains links for 'About', 'Screenshots', 'Downloads', 'Documentation', 'End-user docs', 'Technical docs', 'Contribute', and 'Community'. The main content area is titled 'Download VirtualBox' and includes a search bar, 'Login', and 'Preferences' links. Below the title, it states: 'Here you will find links to VirtualBox binaries and its source code.' The 'VirtualBox binaries' section contains a paragraph about the license and two paragraphs about the latest packages for versions 6.0 and 5.2. The 'VirtualBox 6.1.30 platform packages' section lists links for Windows hosts, OS X hosts, Linux distributions, Solaris hosts, and Solaris 11 IPS hosts. A large white arrow points to the 'Windows hosts' link, with a text box to its right that reads: 'Hacer click y les va a generar una descarga con el instalador de la versión mas reciente del virtual box'. At the bottom, it mentions the GPL version 2 license and provides a link to the changelog. A note at the very bottom states: 'You might want to compare the checksums to verify the integrity of downloaded packages. The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!'.

virtualbox.org/wiki/Downloads

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Lista de lec

VirtualBox
Download VirtualBox

search...
Login Preferences

Here you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 6.0 packages, see [VirtualBox 6.0 builds](#). Please also use version 6.0 if you need to run VMs with software virtualization, as this has been discontinued in 6.1. Version 6.0 will remain supported until July 2020.

If you're looking for the latest VirtualBox 5.2 packages, see [VirtualBox 5.2 builds](#). Please also use version 5.2 if you still need support for 32-bit hosts, as this has been discontinued in 6.0. Version 5.2 will remain supported until July 2020.

VirtualBox 6.1.30 platform packages

- Windows hosts
- OS X hosts
- Linux distributions
- Solaris hosts
- Solaris 11 IPS hosts

Hacer click y les va a generar una descarga con el instalador de la versión mas reciente del virtual box

The binaries are released under the terms of the GPL version 2.

See the [changelog](#) for what has changed.

You might want to compare the checksums to verify the integrity of downloaded packages. *The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!*

Ejecutar el instalador y hacer click en next

← → ↻ bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation ☆ ☁ 📄 🔴 ⚙️ 👤

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πCPT IRI PyCPT

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IRI PyCPT / Windows PyCPT Ubuntu Installation View History

In order to use PyCPT under Windows, this is the method we recommend. It uses VirtualBox with an Ubuntu installation configured.

Minimum Requirements

- 8GB RAM
- dual-core processor
- CPU must be configured for virtualization
- 50GB free space. The more space, the better the performance is

Install Virtual Box

Download Virtual Box

Download the current/latest version of VirtualBox

- Under VirtualBox X64 Edition
- Under VirtualBox X86 Edition

Install

- Install the VirtualBox-...-Win.exe
- Install the Extension Pack

Oracle VM VirtualBox 6.1.30 Setup

Welcome to the Oracle VM VirtualBox 6.1.30 Setup Wizard

The Setup Wizard will install Oracle VM VirtualBox 6.1.30 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Version 6.1.30

Ejecutar el instalador y hacer click en next

Next > Cancel

Dar click en next hasta que nos aparezca esta ventana, luego dar click en yes

The screenshot shows a web browser window with the address bar displaying `bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation`. The browser's address bar and tabs are visible at the top. The page content is from a Bitbucket repository, specifically the IRI PyCPT Wiki. The left sidebar contains navigation links for Source, Commits, Branches, Pull requests, Pipelines, Deployments, Issues, Jira issues, Security, Wiki, Downloads, and Trello. The main content area is titled "IRI PyCPT / Windows PyCPT Ubuntu Installation" and includes a "View" button and a "History" link. The text on the page states: "In order to use PyCPT under Windows, this is the method we recommend. It uses VirtualBox with an Ubuntu installation configured." Below this, there are sections for "Minimum Requirements", "Install Virtual Box", "Download Virtual", and "Install". The "Minimum Requirements" section lists: 8GB RAM, dual-core processor, CPU must be configured for virtualization, and 50GB free space. The "Install Virtual Box" section has a sub-section "Download Virtual" with a list of links: "Under VirtualBox X" and "Under VirtualBox X". The "Install" section lists: "Install the VirtualBox-....-Win.exe" and "Install the Extension Pack". The "Download the IRI PyCPT Ubuntu Installation" section states: "The IRI PyCPT Ubuntu comes as an 7.3GB VirtualBox appliance which can be imported into your running VirtualBox system. From the IRI Google Drive NextGen Folder download IRI PyCPT Ubuntu 20.04.ova". Overlaid on the page is a "Warning: Network Interfaces" dialog box from Oracle VM VirtualBox 6.1.30. The dialog box contains the text: "Installing the Oracle VM VirtualBox 6.1.30 Networking feature will reset your network connection and temporarily disconnect you from the network. Proceed with installation now?". The dialog box has a "Yes" button and a "No" button. A black arrow points to the "Yes" button. Below the arrow, there is a text box with the instruction: "Dar click en siguiente hasta que nos aparezca esta ventana. Luego dar click en Yes."

bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation

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IRI PyCPT

Source Commits Branches Pull requests Pipelines Deployments Issues Jira issues Security Wiki Downloads Trello

IRI PyCPT / Windows PyCPT Ubuntu Installation View History

In order to use PyCPT under Windows, this is the method we recommend. It uses VirtualBox with an Ubuntu installation configured.

Minimum Requirements

- 8GB RAM
- dual-core processor
- CPU must be configured for virtualization
- 50GB free space. The more free space, the better the performance is

Install Virtual Box

Download Virtual

Download the current/latest version of VirtualBox

- Under VirtualBox X
- Under VirtualBox X

Install

- Install the VirtualBox-....-Win.exe
- Install the Extension Pack

Download the IRI PyCPT Ubuntu Installation

The IRI PyCPT Ubuntu comes as an 7.3GB VirtualBox appliance which can be imported into your running VirtualBox system.

From the IRI Google Drive NextGen Folder download IRI PyCPT Ubuntu 20.04.ova

Warning: Network Interfaces

Installing the Oracle VM VirtualBox 6.1.30 Networking feature will reset your network connection and temporarily disconnect you from the network.

Proceed with installation now?

Yes No

Dar click en siguiente hasta que nos aparezca esta ventana. Luego dar click en Yes.

Dar click en install para instalar el virtual box

The screenshot shows a web browser window with the address bar displaying `bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation`. The page title is "IRI PyCPT / Windows PyCPT Ubuntu Installation". The left sidebar contains navigation links: Source, Commits, Branches, Pull requests, Pipelines, Deployments, Issues, Jira issues, Security, Wiki, and Downloads. The main content area shows the beginning of a tutorial for installing PyCPT under Windows using VirtualBox with an Ubuntu installation.

Minimum Requirements:

- 8GB RAM
- dual-core processor
- CPU must be configured for virtualization
- 50GB free space. The drive must have at least 50GB free space available on your HD, otherwise you will run into performance issues.

Install Virtual Box

Download Virtual Box

Download the current/latest version of VirtualBox from the Oracle VM website.

- Under VirtualBox X64 Edition
- Under VirtualBox X86 Edition

Install

- Install the VirtualBox-...-Win.exe

Overlaid on the page is the "Oracle VM VirtualBox 6.1.30 Setup" window. The window title is "Oracle VM VirtualBox 6.1.30 Setup". The main text says "Ready to Install" and "The Setup Wizard is ready to begin the Custom installation." Below this, it says "Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard." At the bottom, there are three buttons: "< Back", "Install", and "Cancel". A large black arrow points to the "Install" button. The text "Dar click en Install para instalar el Virtual Box" is written above the arrow.

Dar click en instalar

← → ↻ bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation ☆ 📄 🔍 👤

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IRI PyCPT / Windows PyCPT Ubuntu Installation View History

In order to use PyCPT under Windows, this is the method we recommend. It uses VirtualBox with an Ubuntu installation configured.

Minimum Requirements

- 8GB RAM
- dual-core processor
- CPU must be 64-bit
- 50GB free space available on your HD, otherwise you will run into performance issues

Install VirtualBox

Download VirtualBox

Download the current version of VirtualBox from the Oracle website.

- Under VirtualBox X64 Edition
- Under VirtualBox X86 Edition

Install

- Install the VirtualBox-...-Win.exe
- Install the Extension Pack

Download the IRI PyCPT Ubuntu Installation

The IRI PyCPT Ubuntu comes as an 7.3GB VirtualBox appliance which can be imported into your running VirtualBox system.

From the IRI [Google Drive NextGen Folder](#) download [IRI PyCPT Ubuntu 20.04.ova](#)

Oracle VM VirtualBox 6.1.30 Setup

Seguridad de Windows

¿Desea instalar este software de dispositivo?

Nombre: Oracle Corporation Controladoras de bus ... Editor: Oracle Corporation

Dar click en instalar

☒ Confiar siempre en el software de "Oracle Corporation".

Solo debería instalar software de controlador de proveedores en los que confíe. [¿Cómo puedo decidir qué software de dispositivo es seguro para instalar?](#)

Version 6.1.30 < Back Next > Cancel

Dar click en Finish

← → ↻ bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation ☆ ☁ 📄 🔴 ⚙️ 👤

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IRI PyCPT / Windows PyCPT Ubuntu Installation

View History

In order to use PyCPT under Windows, this is the method we recommend. It uses VirtualBox with an Ubuntu installation configured.

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- 8GB RAM
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- 50GB free space. The more free space, the better the performance is.

Install VirtualBox

Download VirtualBox

Download the current/latest version of Oracle VM VirtualBox

- Under VirtualBox X64 Edition
- Under VirtualBox X86 Edition

Install

- Install the VirtualBox-...-Win.exe

Oracle VM VirtualBox 6.1.30 Setup

Oracle VM VirtualBox 6.1.30 installation is complete.

Click the Finish button to exit the Setup Wizard.

☒ Start Oracle VM VirtualBox 6.1.30 after installation

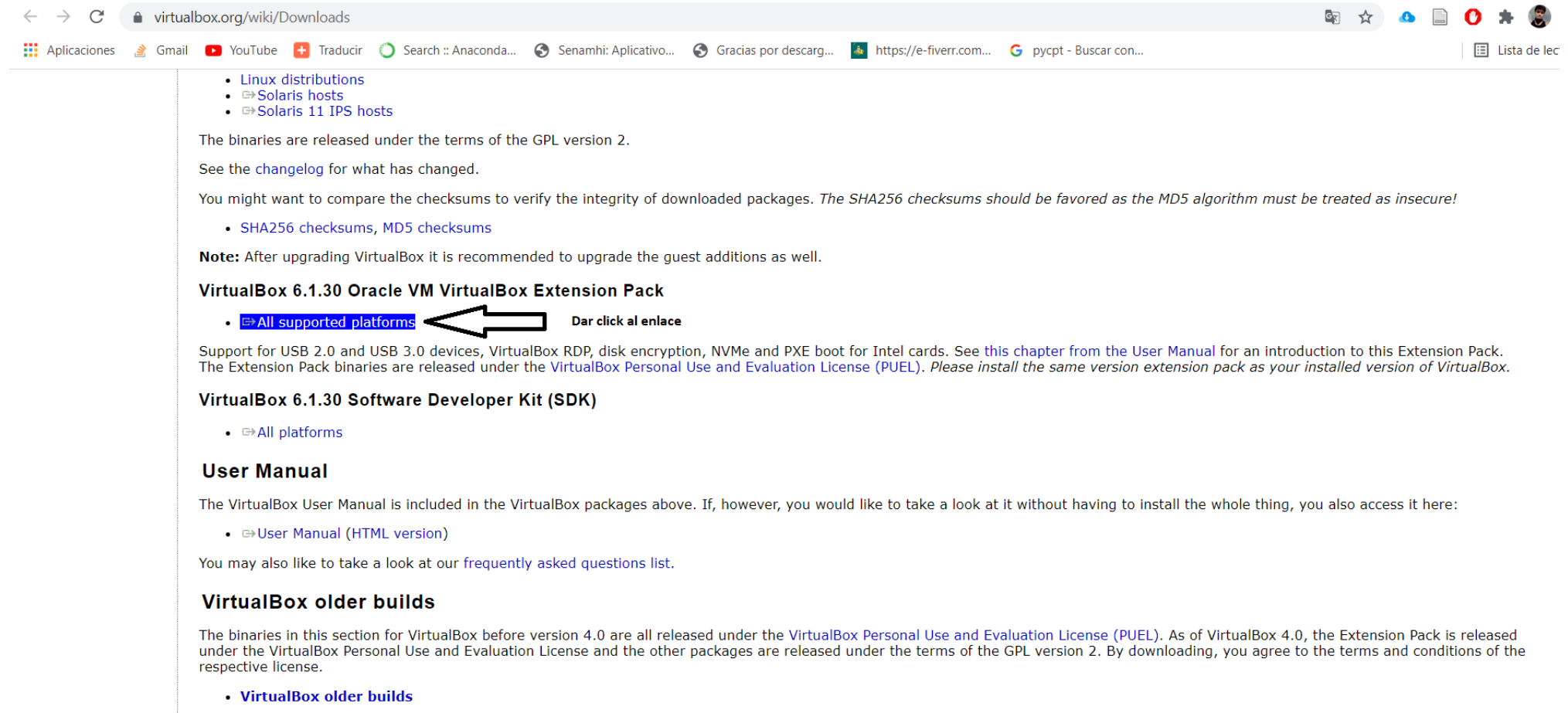
Dar click en finish

Version 6.1.30 < Back Finish Cancel

DESCARGA E INSTALACIÓN DE LAS EXTENSIONES DE VIRTUAL BOX



Dar click al enlace en azul para descargar el instalador de los complementos de la extensión del Virtual Box



The screenshot shows the VirtualBox Wiki Downloads page. The browser's address bar displays 'virtualbox.org/wiki/Downloads'. The page content includes a list of links for Linux distributions, Solaris hosts, and Solaris 11 IPS hosts. A paragraph states that binaries are released under the GPL version 2 and refers to a changelog. Another paragraph mentions comparing checksums (SHA256 and MD5) to verify package integrity. A note recommends upgrading guest additions after upgrading VirtualBox. The 'VirtualBox 6.1.30 Oracle VM VirtualBox Extension Pack' section features a list with 'All supported platforms' highlighted in blue. A black arrow points from the text 'Dar click al enlace' to this link. Below this, a paragraph describes support for USB 2.0 and 3.0 devices, RDP, disk encryption, NVMe, and PXE boot, and refers to the User Manual. The 'VirtualBox 6.1.30 Software Developer Kit (SDK)' section has a link for 'All platforms'. The 'User Manual' section provides a link to the 'User Manual (HTML version)'. The 'VirtualBox older builds' section explains the licensing for older versions and includes a link to 'VirtualBox older builds'.

← → ↻ virtualbox.org/wiki/Downloads

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- [Linux distributions](#)
- [Solaris hosts](#)
- [Solaris 11 IPS hosts](#)

The binaries are released under the terms of the GPL version 2.


See the [changelog](#) for what has changed.

You might want to compare the checksums to verify the integrity of downloaded packages. *The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!*

- [SHA256 checksums, MD5 checksums](#)

Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well.

VirtualBox 6.1.30 Oracle VM VirtualBox Extension Pack

- [All supported platforms](#)  Dar click al enlace

Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards. See [this chapter from the User Manual](#) for an introduction to this Extension Pack. The Extension Pack binaries are released under the [VirtualBox Personal Use and Evaluation License \(PUEL\)](#). *Please install the same version extension pack as your installed version of VirtualBox.*

VirtualBox 6.1.30 Software Developer Kit (SDK)

- [All platforms](#)

User Manual

The VirtualBox User Manual is included in the VirtualBox packages above. If, however, you would like to take a look at it without having to install the whole thing, you also access it here:

- [User Manual \(HTML version\)](#)

You may also like to take a look at our [frequently asked questions list](#).

VirtualBox older builds

The binaries in this section for VirtualBox before version 4.0 are all released under the [VirtualBox Personal Use and Evaluation License \(PUEL\)](#). As of VirtualBox 4.0, the Extension Pack is released under the VirtualBox Personal Use and Evaluation License and the other packages are released under the terms of the GPL version 2. By downloading, you agree to the terms and conditions of the respective license.

- [VirtualBox older builds](#)

Ejecutar el instalador e instalar las extensiones del Virtual Box

The screenshot shows a web browser window with the address bar displaying `bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation`. The browser's address bar and tabs are visible at the top. The main content area shows a Bitbucket wiki page titled "Minimum Requirements" with a list of requirements: 8GB RAM, dual-core processor, and CPU must be configured with Virtualization enabled instructions. A sidebar on the left contains navigation links for Source, Commits, Branches, Pull requests, Pipelines, Deployments, Issues, Jira issues, Security, Wiki, Downloads, and Trello. Overlaid on the page is the Oracle VM VirtualBox Administrator window. The "Herramientas" (Tools) menu is open, showing options like Preferencias, Importar, Exportar, Nueva, and Añadir. A dialog box titled "VirtualBox - Pregunta" is open, asking for confirmation to install the Oracle VM VirtualBox Extension Pack. The dialog includes the following information:
Nombre: Oracle VM VirtualBox Extension Pack
Versión: 6.1.30r148432
Descripción: Oracle Cloud Infrastructure integration, USB 2.0 and USB 3.0 Host Controller, Host Webcam, VirtualBox RDP, PXE ROM, Disk Encryption, NVMe.
The dialog has "Instalar" and "Cancelar" buttons. A large white arrow points to the "Instalar" button, with the text "Hacer click en Instalar" below it. The background of the VirtualBox Administrator window shows a list of virtual machines, including "IRI PyCPT Ubuntu 20.04" which is currently "Apagada" (Powered Off).

Minimum Requirements

- 8GB RAM
- dual-core processor
- CPU must be configured with Virtualization enabled instructions

Oracle VM VirtualBox Administrator

Archivo Máquina Ayuda

Herramientas

Preferencias Importar Exportar Nueva Añadir

IRI PyCPT Ubuntu 20.04 Apagada

VirtualBox - Pregunta

Está a punto de instalar un paquete de extensión de VirtualBox. Los paquetes de extensión complementan la funcionalidad de VirtualBox y pueden contener software a nivel de sistema que puede ser potencialmente dañino para su sistema. Revise la descripción y proceda solo si ha obtenido el paquete de extensión de una fuente de confianza.

Nombre: Oracle VM VirtualBox Extension Pack
Versión: 6.1.30r148432
Descripción: Oracle Cloud Infrastructure integration, USB 2.0 and USB 3.0 Host Controller, Host Webcam, VirtualBox RDP, PXE ROM, Disk Encryption, NVMe.

Instalar Cancelar

Hacer click en Instalar

Import the Appliance

In the running VirtualBox application, select File->Import Appliance * select Local File System * Use the File box to locate the OVA file that you downloaded previously.

You will be prompted for the resources you want to allocate from your computer. Do not use more than 1/2 of your total memory and not more than 1/2 of your available cores.

Dar click en aceptar para finalizar la instalación

bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation

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Minimum Requirements

- 8GB RAM
- dual-core processor
- CPU must be configured with Virtualization enabled [instructions](#)

Import the Appliance

In the running VirtualBox application, select File->Import Appliance * select Local File System * Use the File box to locate the OVA file that you downloaded previously.

You will be prompted for the resources you want to allocate from your computer. Do not use more than 1/2 of your total memory and not more than 1/2 of your available cores.

Oracle VM VirtualBox Administrador

Archivo Máquina Ayuda

Herramientas

Preferencias Importar Exportar Nueva Añadir

IRI PyCPT Ubuntu 20.04

Apagada

iBienvenido a VirtualBox!

La parte izquierda de esta ventana contiene herramientas globales y una lista de todas las máquinas virtuales v. grupos de máquinas virtuales en su

VirtualBox - Información

El paquete de extensión Oracle VM VirtualBox Extension Pack se ha instalado correctamente.

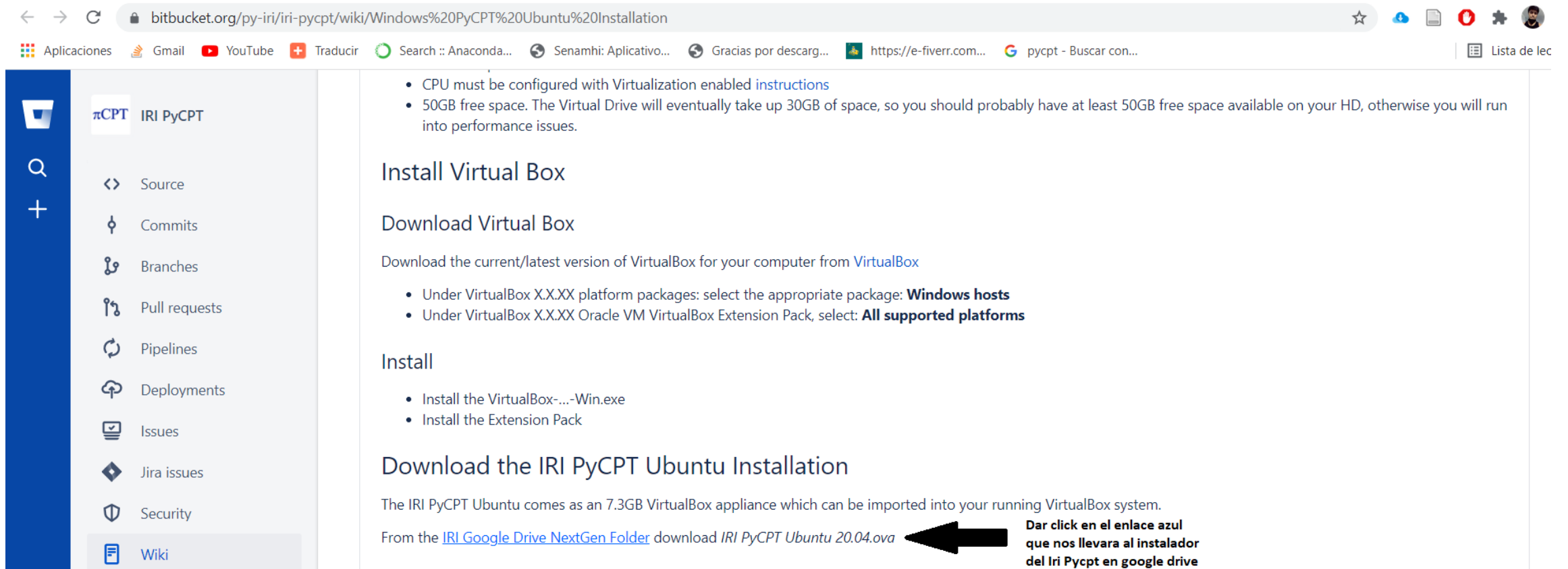
Aceptar

Nos tiene que salir este aviso en el que describe que la instalación fue exitosa.

INSTALACIÓN DEL IRI PYCPT UBUNTU



Dar click en el enlace que nos llevara a descargar el instalador del Iri PyCPT



The screenshot shows a web browser window with the address bar displaying `bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation`. The browser's address bar and tabs are visible at the top. The page content is divided into a left sidebar and a main content area. The sidebar, on the left, contains a search icon, a plus icon, and a list of navigation links: **IRI PyCPT**, Source, Commits, Branches, Pull requests, Pipelines, Deployments, Issues, Jira issues, Security, and Wiki. The main content area on the right contains the following sections and text:

- CPU must be configured with Virtualization enabled [instructions](#)
- 50GB free space. The Virtual Drive will eventually take up 30GB of space, so you should probably have at least 50GB free space available on your HD, otherwise you will run into performance issues.

Install Virtual Box

Download Virtual Box

Download the current/latest version of VirtualBox for your computer from [VirtualBox](#)

- Under VirtualBox X.X.XX platform packages: select the appropriate package: **Windows hosts**
- Under VirtualBox X.X.XX Oracle VM VirtualBox Extension Pack, select: **All supported platforms**

Install

- Install the VirtualBox-...-Win.exe
- Install the Extension Pack

Download the IRI PyCPT Ubuntu Installation

The IRI PyCPT Ubuntu comes as an 7.3GB VirtualBox appliance which can be imported into your running VirtualBox system.

From the [IRI Google Drive NextGen Folder](#) download *IRI PyCPT Ubuntu 20.04.ova*

Dar click en el enlace azul que nos llevara al instalador del Iri Pycpt en google drive

El enlace nos lleva a un drive en donde vamos a poder descargar el archivo

Drive

Buscar en Drive

Compartido conmigo > NextGen

Nuevo

Mi unidad

Ordenadores

Compartido conmigo

Reciente

Destacados

Papelera

Almacenamiento

5,17 GB de 15 GB usado

Comprar espacio

Nombre	Propietario	Última modificaci...	Tamaño de archivo
IRI PyCPT Ubuntu 20.04.ova	Jeffrey Turmelle	27 oct 2021	6,99 GB
READM...	Jeffrey Turmelle	5 nov 2021	—

- Vista previa
- Abrir con
- Compartir
- Obtener enlace
- Mostrar ubicación del archivo
- Añadir acceso directo a Drive
- Mover a
- Añadir a Destacados
- Cambiar nombre
- Hacer una copia
- Notificar uso inadecuado
- Bloquear jefft@iri.columbia.edu
- Descargar

Hacer click en Descargar en el archivo IRI PyCPT

IRI PyCPT Ubuntu 20.04.ova

Detalles Actividad

Quién tiene acceso

Propiedades del sistema

Tipo	Archivo comprimido
Tamaño	6,99 GB
Almacenamiento usado	6,99 GB
Ubicación	NextGen

Una vez descargado el Iri PyCPT ejecutamos el virtual box y damos click en Importar

The screenshot shows a web browser window with the address bar displaying `bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation`. The page content includes instructions for downloading the IRI PyCPT Ubuntu 20.04 OVA file and importing it into VirtualBox. A sidebar on the left lists various tools and services like Source, Commits, and Pipelines. Overlaid on the page is the Oracle VM VirtualBox Administrator window, which has a tab titled 'Hacer click en Importar'. The window displays a welcome message in Spanish and a list of tools. A tooltip is visible over the 'Importar' button, indicating the keyboard shortcut 'Importar servicio virtualizado (Ctrl+I)'.

bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation

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JC

The IRI PyCPT Ubuntu comes as an 7.3GB VirtualBox appliance which can be imported into your running VirtualBox system.

From the IRI Google Drive NextGen Folder download IRI PyCPT Ubuntu 20.04.ova

Import the Appliance

In the running VirtualBox application, select File->Import Appliance * select Local File System * Use the File box to locate the OVA file that you downloaded previously.

You will be prompted for the resources you want to allocate from your computer. Do not use more than 1/2 of your total memory and not more than 1/2 of your available cores. 4096MB should be enough RAM.

Start the new Appliance

Login: iri
Password: monell

Install the Guest

While the Ubuntu VirtualBox is running, you can install the guest operating system. This should immediately start the installation process. Once installed, you will be able to use the virtual machine as a normal Ubuntu system.

Ubuntu 20.04

- CPT Source Code
- Python Anaconda
- CPT 16.5.8 is built
- CPT 16.5.9 is built
- CPT 17.5.1 is installed
- CPT 17.5.2 is installed
- CPT_BIN_DIR is

Add a shared folder

Oracle VM VirtualBox Administrador

Archivo Máquina Ayuda

Herramientas

Hacer click en Importar

Preferencias Importar Exportar Nueva Añadir

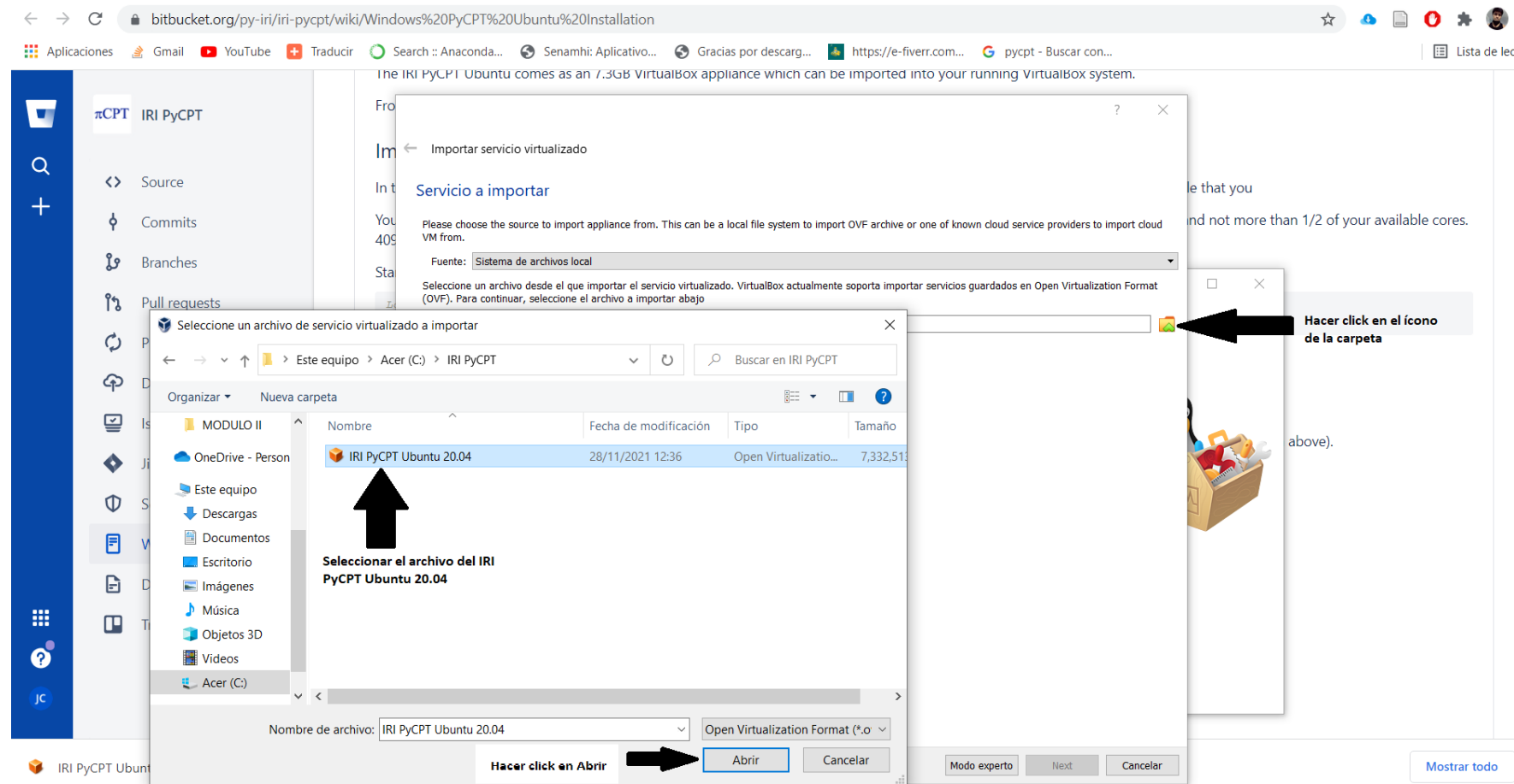
Importar servicio virtualizado (Ctrl+I)

¡Bienvenido a VirtualBox!

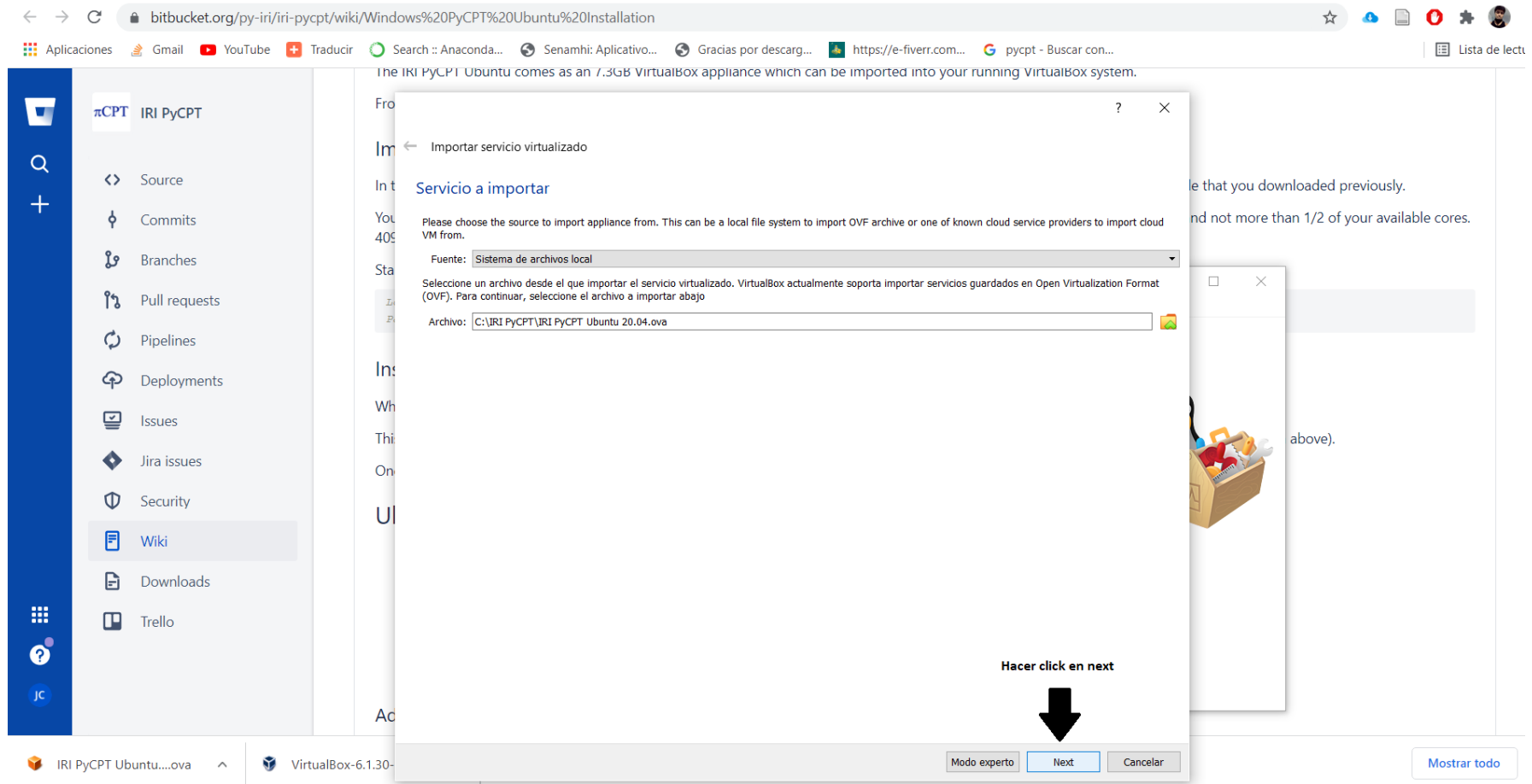
La parte izquierda de esta ventana contiene herramientas globales y una lista de todas las máquinas virtuales y grupos de máquinas virtuales en su computadora. Puede importar, añadir y crear nuevas MVs usando los botones correspondientes de la barra de herramientas. Puede abrir un «popup» del elemento seleccionado actualmente usando el botón de elemento correspondiente. Puede presionar la tecla **F1** para obtener ayuda instantánea o visitar www.virtualbox.org para más información y las últimas noticias.

above).

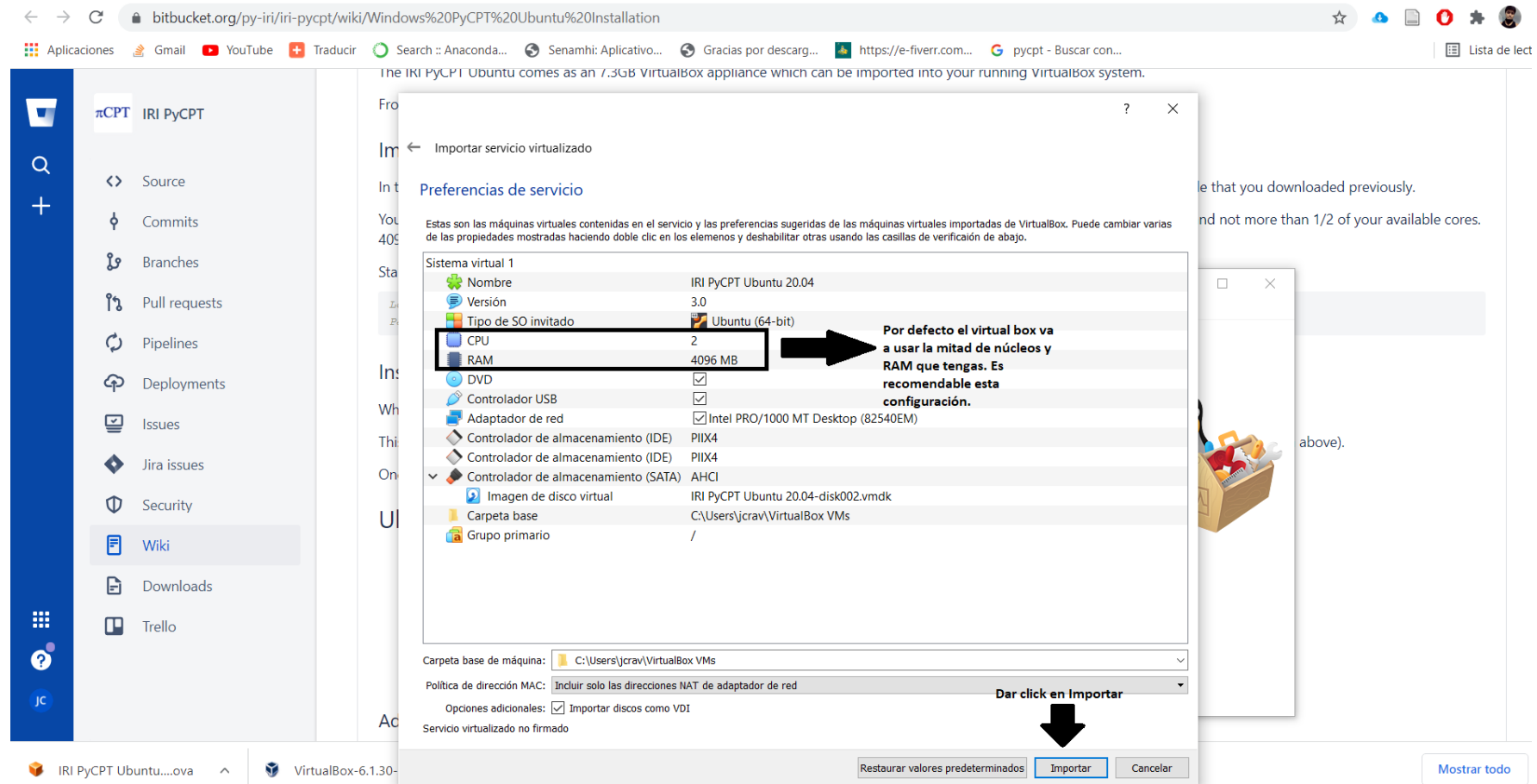
Hacemos click en el icono de la carpeta y seleccionamos el archivo IRI PyCPTP que nos descargamos. Finalmente damos click en abrir.



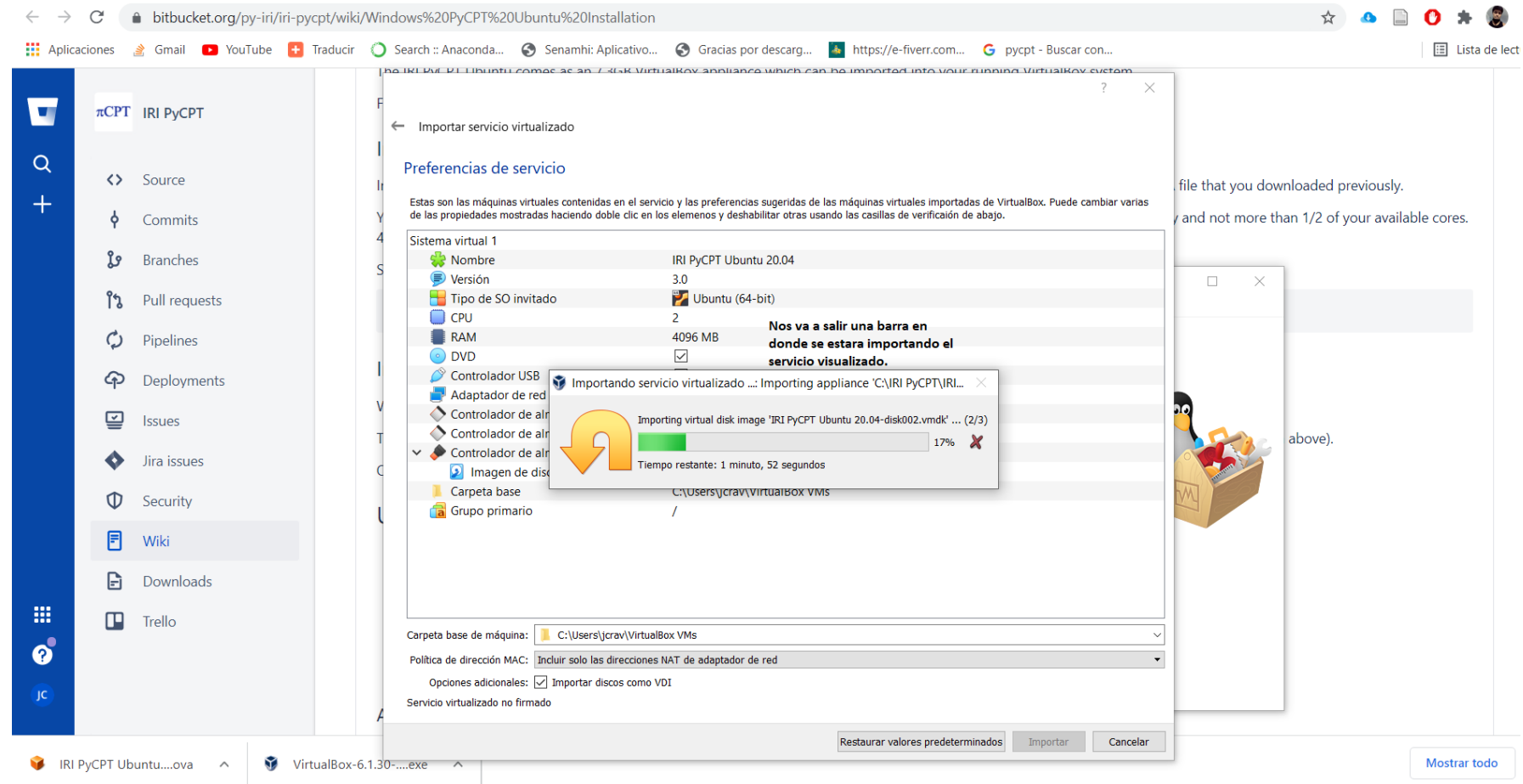
Hacemos click en next



Por defecto el virtual box va a usar la mitad de núcleos y memoria RAM que posee tu PC. Se recomienda dejar la configuración. Dar click en importar



Nos saldra esta barra en donde se estara importando el IRI PyCPT en el Virtual Box. Esperamos a que cargue.



Una vez finalizada la importación damos click a Iniciar, para iniciar el virtual box y la simulación del SO Ubuntu

The screenshot shows a web browser window with the address bar displaying `bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation`. The page content includes instructions for importing the IRI PyCPT Ubuntu appliance into a VirtualBox system. A text overlay on the page reads: "Una vez finalizada la importación le damos click a iniciar, para iniciar el virtual box y nuestra simulación del sistema operativo Ubuntu".

Overlaid on the browser window is the Oracle VM VirtualBox Administrator interface. The 'Herramientas' (Tools) menu is open, and the 'Iniciar' (Start) button is highlighted with a green arrow. The 'General' tab is selected, showing the following configuration details:

- General**
 - Nombre: IRI PyCPT Ubuntu 20.04
 - Sistema operativo: Ubuntu (64-bit)
- Sistema**
 - Memoria base: 4096 MB
 - Procesadores: 2
 - Orden de arranque: Óptica, Disco duro
 - Aceleración: VT-x/AMD-V, Paginación anidada, Paravirtualización KVM
- Pantalla**
 - Memoria de vídeo: 64 MB
 - Controlador gráfico: VMSVGA
 - Servidor de escritorio remoto: Inhabilitado
 - Grabación: Inhabilitado
- Almacenamiento**
 - Controlador: IDE
 - IDE secundario maestro: [Unidad óptica] Vacío
 - Controlador: SATA

The 'Previsualización' (Preview) window shows the IRI PyCPT Ubuntu 20.04 logo. The taskbar at the bottom shows the files 'IRI PyCPT Ubuntu...ova' and 'VirtualBox-6.1.30-....exe'.

Nos saldra un aviso de error, no asustarse. Solo lo cerramos.

← → ↻ bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation ☆

Aplicaciones Gmail YouTube Traducir Search :: Anaconda... Senamhi: Aplicativo... Gracias por descarg... https://e-fiverr.com... pycpt - Buscar con... Lista de lecti

Minimum Requirements

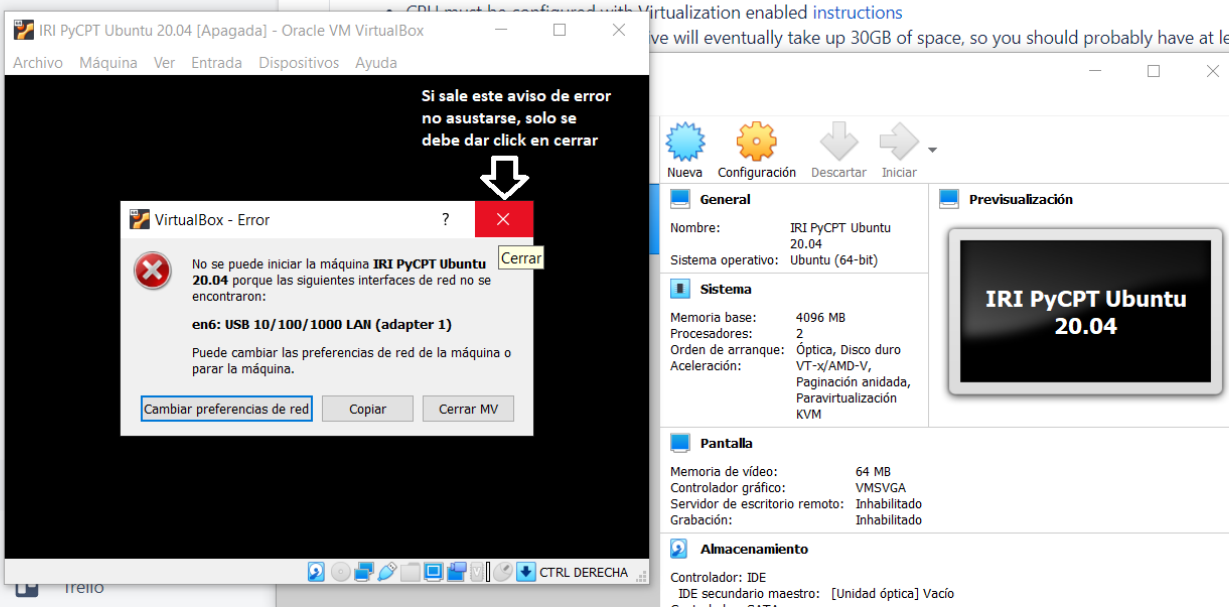
- 8GB RAM
- dual-core processor
- CPU must be configured with Virtualization enabled instructions

we will eventually take up 30GB of space, so you should probably have at least 50GB free space available on your HD, otherwise you will run

Import the Appliance

In the running VirtualBox application, select File->Import Appliance * select Local File System * Use the File box to locate the OVA file that you downloaded previously.

You will be prompted for the resources you want to allocate from your computer. Do not use more than 1/2 of your total memory and not more than 1/2 of your available cores.



The screenshot shows a VirtualBox window titled "IRI PyCPT Ubuntu 20.04 [Apagada] - Oracle VM VirtualBox". Overlaid on this is a "VirtualBox - Error" dialog box. The error message in Spanish reads: "Si sale este aviso de error no asustarse, solo se debe dar click en cerrar" (If you see this error message, don't be scared, just click on close). Below this, it says: "No se puede iniciar la máquina IRI PyCPT Ubuntu 20.04 porque las siguientes interfaces de red no se encontraron: en6: USB 10/100/1000 LAN (adapter 1). Puede cambiar las preferencias de red de la máquina o parar la máquina." (The machine cannot be started because the following network interfaces were not found: en6: USB 10/100/1000 LAN (adapter 1). You can change the network preferences of the machine or stop the machine.) The dialog has buttons for "Cambiar preferencias de red", "Copiar", and "Cerrar MV". The "Cerrar" button is highlighted with a yellow box. In the background, the VirtualBox configuration window is visible, showing settings for "IRI PyCPT Ubuntu 20.04". The "General" tab is selected, showing the name, operating system, and system resources. The "Pantalla" (Display) tab is also visible, showing video memory and graphics controller settings. The "Almacenamiento" (Storage) tab shows the IDE controller and the attached OVA file.

Luego en el virtual box vamos a configuración -> USB y seleccionamos la opción Controlador USB 1.1 OHCI y damos click en aceptar

The screenshot shows the 'Configuración' (Configuration) window for 'IRI PyCPT Ubuntu 20.04'. The 'USB' tab is selected in the left sidebar. The 'USB' section is expanded, showing the 'Controlador USB' (USB Controller) settings. The 'Controlador USB 1.1 (OHCI)' option is selected, indicated by a radio button and an arrow pointing to it with the text 'Seleccionar Controlador USB 1.1 (OHCI)'. Below this, there are options for 'Controlador USB 2.0 (OHCI + EHCI)' and 'Controlador USB 3.0 (xHCI)', which are not selected. The 'Filtros de dispositivos USB' (USB Device Filters) section is empty. At the bottom of the window, the 'Aceptar' (Accept) button is highlighted with an arrow and the text 'Finalmente dar click en aceptar'. The background shows the 'Minimum Requirements' for the virtual machine, including 8GB RAM, dual-core processor, and 50GB free space. The 'Previsualización' (Preview) window shows the 'IRI PyCPT Ubuntu 20.04' logo.

Minimum Requirements

- 8GB RAM
- dual-core processor
- CPU must be configured with Virtualization enabled [instructions](#)
- 50GB free space. The Virtual Drive will eventually take up 30GB of space, so you should probably have at least 50GB free space available on your HD, otherwise you will run into issues.

Dar click en configuración

Seleccionar Controlador USB 1.1 (OHCI)

Dar click en USB

Finalmente dar click en aceptar

Previsualización

IRI PyCPT Ubuntu 20.04

In the running VirtualBox application, select File->Import Appliance * select Local File System * Use the File box to locate the OVA file that you downloaded previously. You will be prompted for the resources you want to allocate from your computer. Do not use more than 1/2 of your total memory and not more than 1/2 of your available cores.

Luego nuevamente damos click en iniciar y ahora si no nos saldra ningún error

The screenshot shows a web browser window with the address bar displaying `bitbucket.org/py-iri/iri-pycpt/wiki/Windows%20PyCPT%20Ubuntu%20Installation`. The page content includes a sidebar with navigation links like 'Source', 'Commits', 'Branches', 'Pull requests', 'Pipelines', 'Deployments', 'Issues', 'Jira issues', 'Security', 'Wiki', 'Downloads', and 'Trello'. The main content area is titled 'Minimum Requirements' and lists the following:

- 8GB RAM
- dual-core processor
- CPU must be configured with Virtualization enabled [instructions](#)
- 50GB free space. The Virtual Drive will eventually take up 30GB of space, so you should probably have at least 50GB free space available on your HD, otherwise you will run into performance issues

Below the requirements, there is a section titled 'Install VirtualBox' and 'Download VirtualBox'. The 'Install' section includes instructions: 'Install the VirtualBox application' and 'Install the Extension Pack'. The 'Download' section includes instructions: 'Download the current version of VirtualBox' and 'Download the current version of the VirtualBox Extension Pack'. The 'Import the Appliance' section includes instructions: 'In the running VirtualBox application, select File->Import Appliance * select Local File System * Use the File box to locate the OVA file that you downloaded previously. You will be prompted for the resources you want to allocate from your computer. Do not use more than 1/2 of your total memory and not more than 1/2 of your available cores.'

Overlaid on the browser window is the 'Oracle VM VirtualBox Administrator' window. The 'Herramientas' (Tools) menu is open, showing options: 'Nueva', 'Configuración', 'Descartar', 'Iniciar', and 'Iniciar'. A black arrow points to the 'Iniciar' button. The 'General' tab is selected, showing the following details:

- Nombre: IRI PyCPT Ubuntu 20.04
- Sistema operativo: Ubuntu (64-bit)
- Sistema:
 - Memoria base: 4096 MB
 - Procesadores: 2
 - Orden de arranque: Óptica, Disco duro
 - VT-x/AMD-V: VT-x/AMD-V
 - Aceleración: Paginación anidada, Paravirtualización KVM
- Pantalla:
 - Memoria de video: 64 MB
 - Controlador gráfico: VM SVGA
 - Servidor de escritorio remoto: Inhabilitado
 - Grabación: Inhabilitado
- Almacenamiento:
 - Controlador: IDE
 - IDE secundario maestro: [Unidad óptica] Vacío

The 'Previsualización' (Preview) window shows the text 'IRI PyCPT Ubuntu 20.04'.

Acabamos de iniciar nuestro Virtual box con el SO Ubuntu

Finalmente hemos logrado abrir nuestro virtual box con el sistema operativo Ubuntu

Updated software is available for this computer. Do you want to install it now?

Details of updates

485.5 MB will be downloaded.

Settings... Remind Me Later Install Now

Nombre: IRI PyCPT Ubuntu 20.04

Sistema operativo: Ubuntu (64-bit)

Sistema

Memoria base: 4096 MB

Procesadores: 2

Orden de arranque: Óptica, Disco duro

Aceleración: VT-x/AMD-V, Paginación anidada, Paravirtualización KVM

Pantalla

Memoria de vídeo: 64 MB

Controlador gráfico: VMSVGA

Servidor de escritorio remoto: Inhabilitado

Grabación: Inhabilitado

Almacenamiento

You may also like to take a look at our [frequently asked questions](#).

VirtualBox older builds

The binaries in this section for VirtualBox before 6.0 are for Personal Use and Evaluation only. Please read the respective license.

Si estamos inactivos por un período de tiempo, la pantalla se va a oscurecer y cuando volvamos a querer acceder nos pedirá una clave. La clave es monell cpt!!

The image shows a composite screenshot. On the left is a sidebar for 'IRI PyCPT' with a navigation menu including Source, Commits, Branches, Pull requests, Pipelines, Deployments, Issues, Jira issues, Security, Wiki, Downloads, and Trello. The main content area displays instructions for downloading and installing the IRI PyCPT appliance. A code block shows the login credentials: `Login: iri` and `Password: monell cpt!!`. To the right, a VirtualBox window titled 'IRI PyCPT Ubuntu 20.04 [Corriendo] - Oracle VM VirtualBox' is shown. It displays the Ubuntu login screen with the text: 'Colocar el password: monell cpt!! Siempre que tu sesion este inactiva te va a pedir la contraseña.' and a password input field. A white arrow points to the password field. The VirtualBox window also shows system messages about keyboard and mouse integration.

Download the IRI PyCPT

The IRI PyCPT Ubuntu comes as an 7

From the IRI Google Drive NextGen f

Import the Appliance

In the running VirtualBox application

You will be prompted for the resource

4096MB should be enough RAM.

Start the new Appliance

```
Login: iri
Password: monell cpt!!
```

Install the Guest Additions

While the Ubuntu VirtualBox is runni

This should immediately prompt you

Once installed, you will need to rebo

Ubuntu 20.04 Linux

- CPT Source Code is in /home/iri/CPT
- Python Anaconda 3 is installed in /home/iri/anaconda3/bin
- CPT 16.5.8 is built in /home/iri/CPT/16.5.8
- CPT 16.5.9 is built in /home/iri/CPT/16.5.9
- CPT 17.5.1 is installed in /home/iri/CPT/17.5.1

IRI PyCPT Ubuntu 20.04 [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Tiene la opción **autocaptura de teclado** habilitada. Esto causará que la máquina virtual **capture** automáticamente el teclado.

La máquina virtual informa que el SO invitado soporta **integración del ratón**. Esto significa que no necesita **capturar** el puntero

Colocar el password: monell cpt!! Siempre que tu sesion este inactiva te va a pedir la contraseña.

IRI

Password


CTRL DERECHA

Posteriormente nos creamos una cuenta en la página del IRI

← → ↻ iridl.ldeo.columbia.edu/auth/login




Aplicaciones Gmail YouTube Traducir Search :: Anaconda... Senamhi: Aplicativo... Gracias por descarg... https://e-fiverr.com... pycpt - Buscar con...

Lista de lec



Sign in

or sign in with:

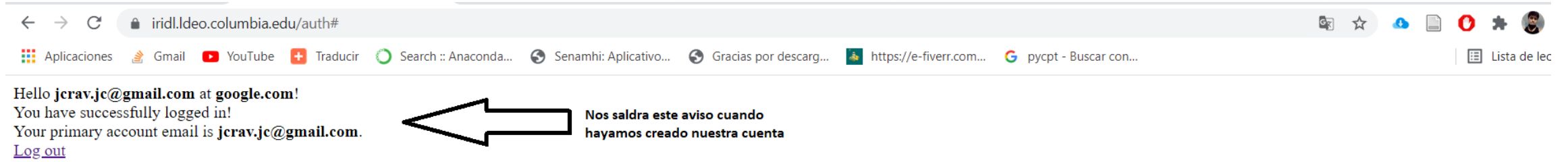
 Google  GitHub  Bitbucket

[Don't have an account?](#)
[Forgot password?](#)

By signing in, you agree to the [Terms of](#)

Debemos crearnos una cuenta en la página del IRI

Nos saldra el siguiente aviso cuando hayamos creado la cuenta



← → ↻ iridl.Ideo.columbia.edu/auth#

Aplicaciones Gmail YouTube Traducir Search :: Anaconda... Senamhi: Aplicativo... Gracias por descarg... https://e-fiverr.com... pycpt - Buscar con...

Lista de lec

Hello **jcrav.jc@gmail.com** at **google.com**!
You have successfully logged in!
Your primary account email is **jcrav.jc@gmail.com**.
[Log out](#)

Nos saldra este aviso cuando
hayamos creado nuestra cuenta

Luego necesitamos generar nuestra key. Accedemos a la pagina de bitbucket.org/py-iri/iri-pycpt/wiki/Home y damos click en el enlace que se muestra con la flecha negra.

The screenshot shows a web browser at the URL bitbucket.org/py-iri/iri-pycpt/wiki/Home. The left sidebar contains navigation links: Source, Commits, Branches, Pull requests, Pipelines, Deployments, Issues, Jira issues, Security, Wiki (highlighted), and Downloads. The main content area is titled 'Py IRI / PyCPT Source / IRI PyCPT Wiki'. Below the title is a 'Clone wiki' button and 'View'/'History' buttons. The 'Wiki' section has a sub-header 'IRI PyCPT / Home'. The main text area contains a welcome message, a 'What's PyCPT?' section, and an 'Installation' section. The 'Installation' section states that users need to install Anaconda, the Climate Predictability Tool, and the Python extension of CPT (PyCPT). It provides a link to a document for detailed instructions. For Windows users, it recommends installing a Virtual Machine. It then states: '[ONLY needed for the s2s version] Create the file .IRIDLAUTH in the main PyCPT folder. It must contain only one line with the Data Library S2S key (104 characters) obtained via [this link] (<https://iridl.ldeo.columbia.edu/auth/genkey>) **Please do not share your key**'. A black arrow points to the text 'Please do not share your key', and a Spanish note says 'luego visitamos la pagina y le damos click a este link'.

Volvemos a ingresar nuestra cuenta

← → ↻ iridl.ideo.columbia.edu/auth/login?redirect=https%3A%2F%2Firidl.ideo.columbia.edu%2Fauth%2Fgenkey 🔑 ☆ J



jcrav.jc@gmail.com

.....

Sign in



Volvemos a ingresar a la cuenta.

or sign in with:



[Don't have an account?](#)

[Forgot password?](#)

By signing in, you agree to the [Terms of Service](#) and [Privacy Policy](#)

Al ingresar nos van a dar una clave de 104 caracteres.

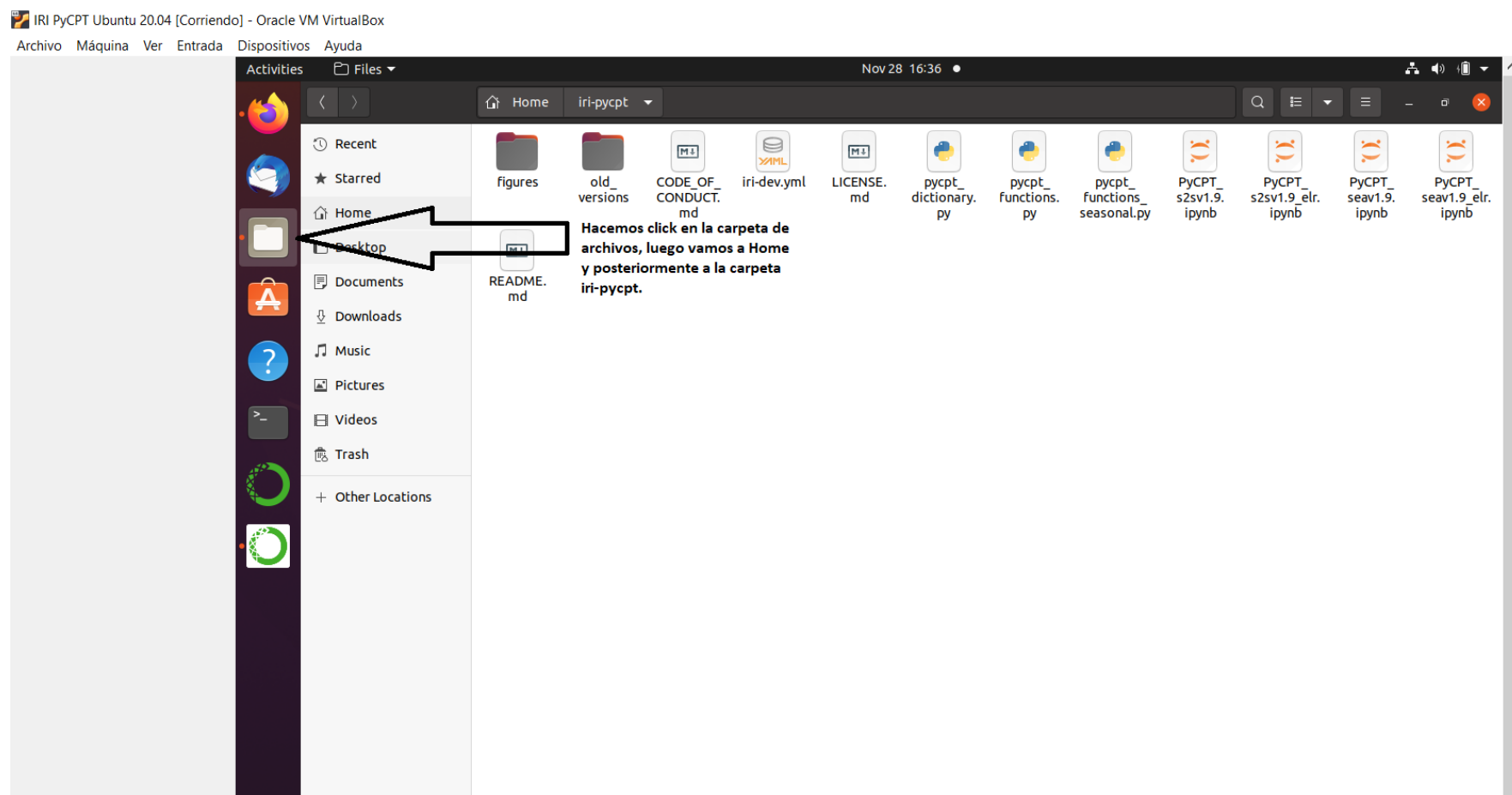


A screenshot of a web browser window. The address bar shows the URL `iridl.ldeo.columbia.edu/auth/genkey`. The page content displays a JSON object: `{"key": [REDACTED], "status": "Active", "message": "Success! If you require any additional information, please contact our support at <help@iri.columbia.edu>"}`. The value of the `key` property is obscured by a solid red rectangular box.

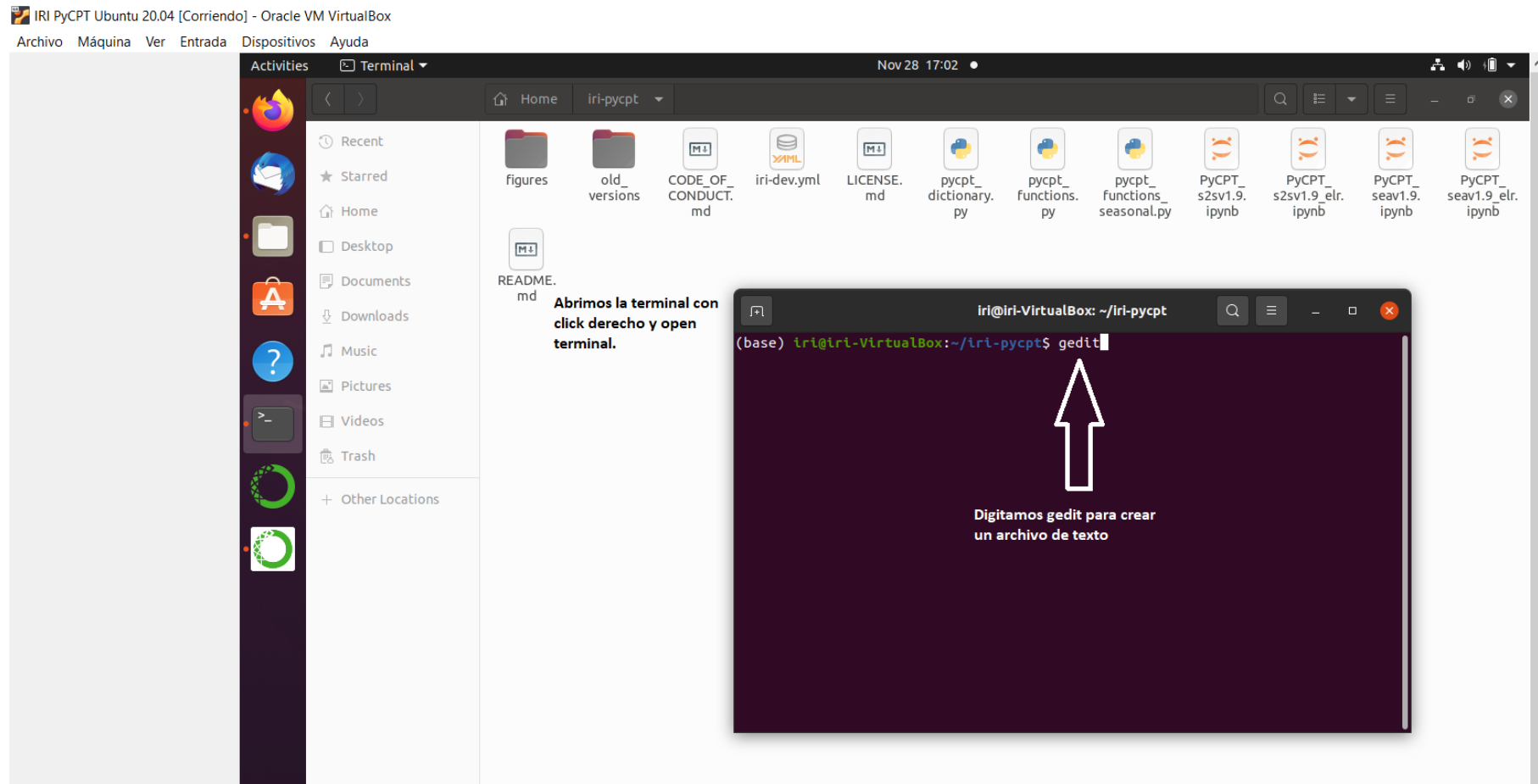


En esa parte nos va a mostrar una contraseña de 104 caracteres. La copiamos.

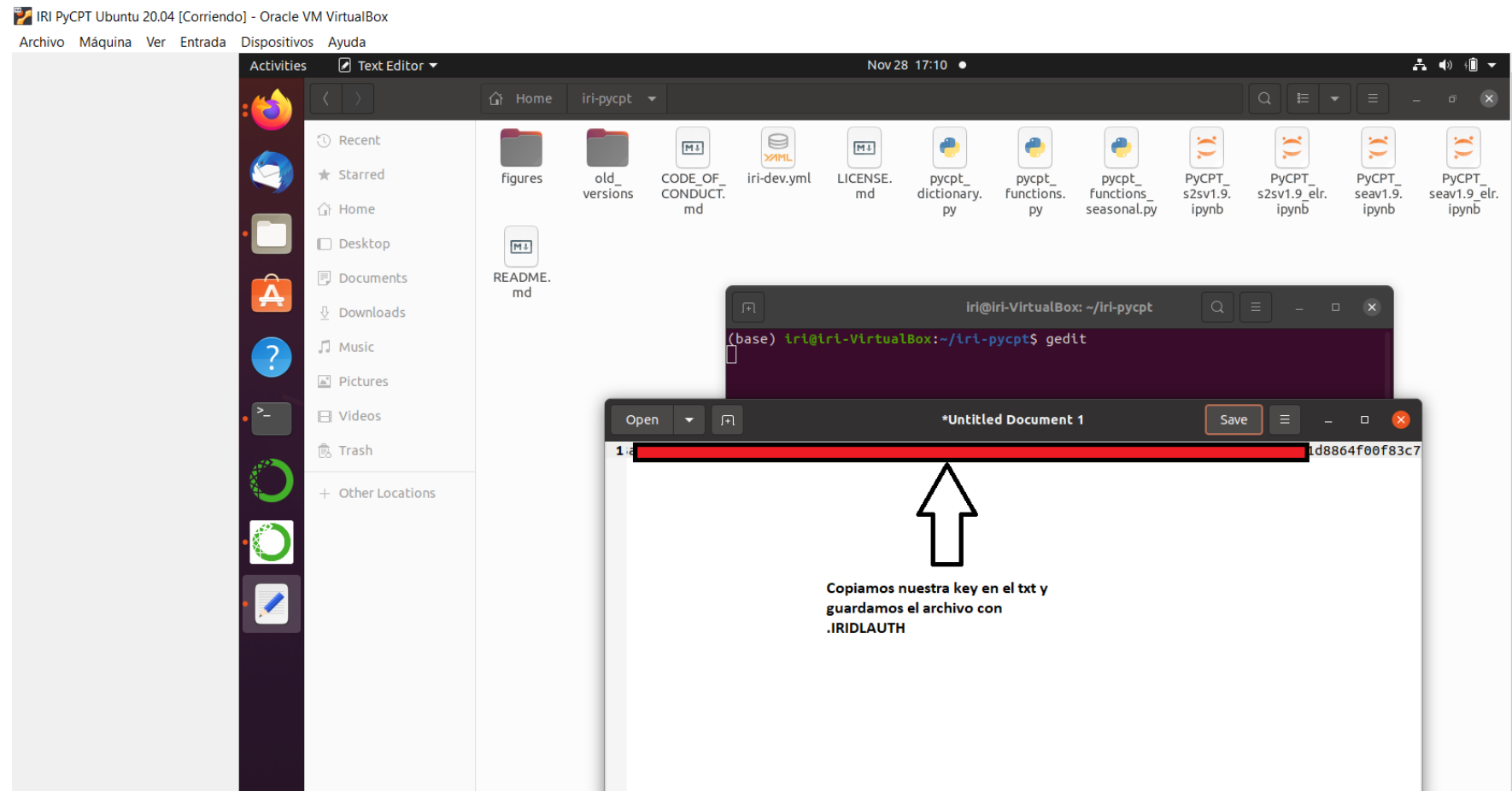
Volvemos a nuestro Virtual Box SO Ubuntu, Nos situamos en la carpeta iri-pycpt que va a estar creada por defecto y va a contener los scripts y archivos importantes.



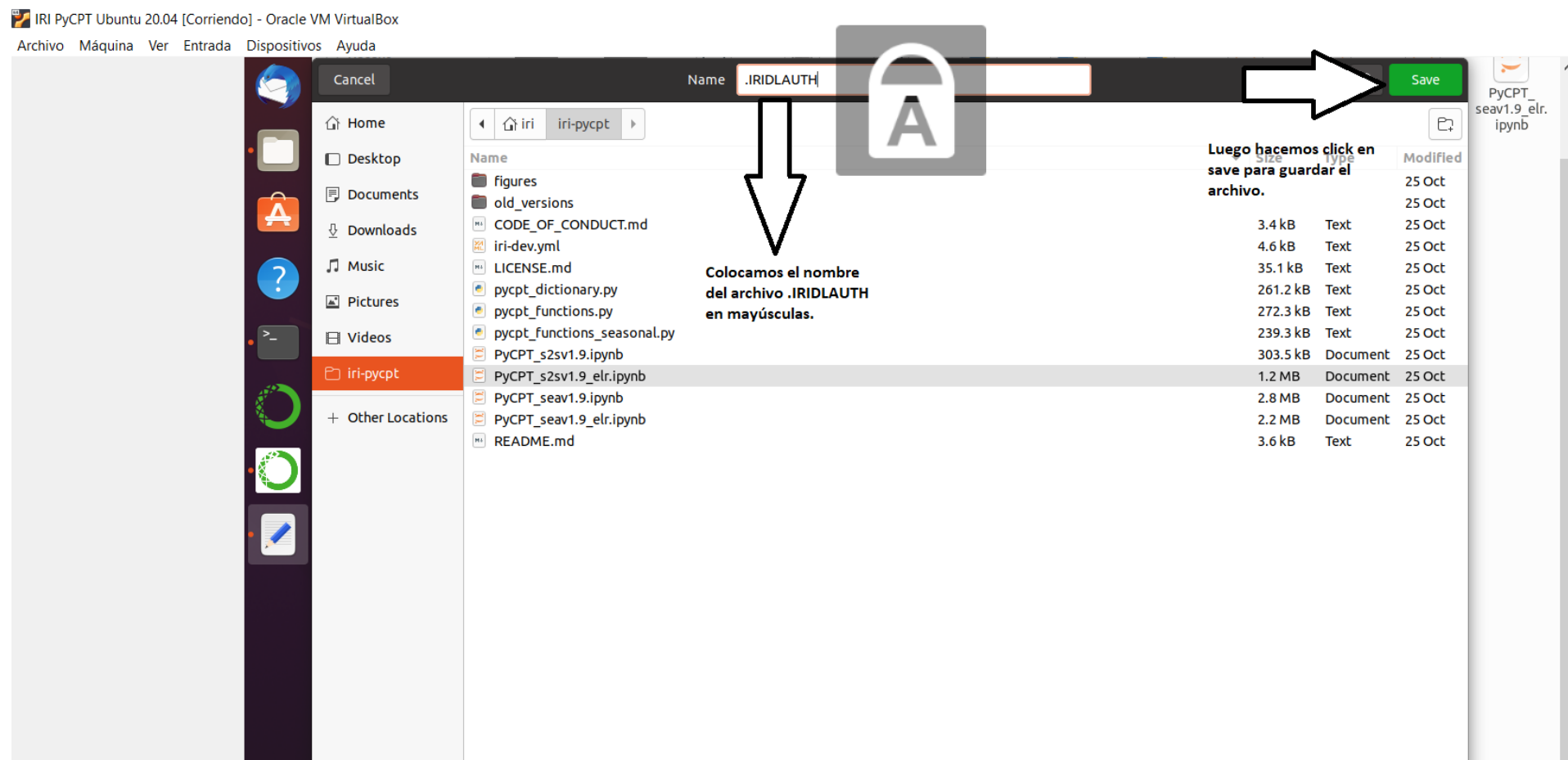
Dentro de la misma carpeta IRI PyCPT accedemos a la terminal con click derecho -> open terminal y digitamos gedit para crear un archivo de texto



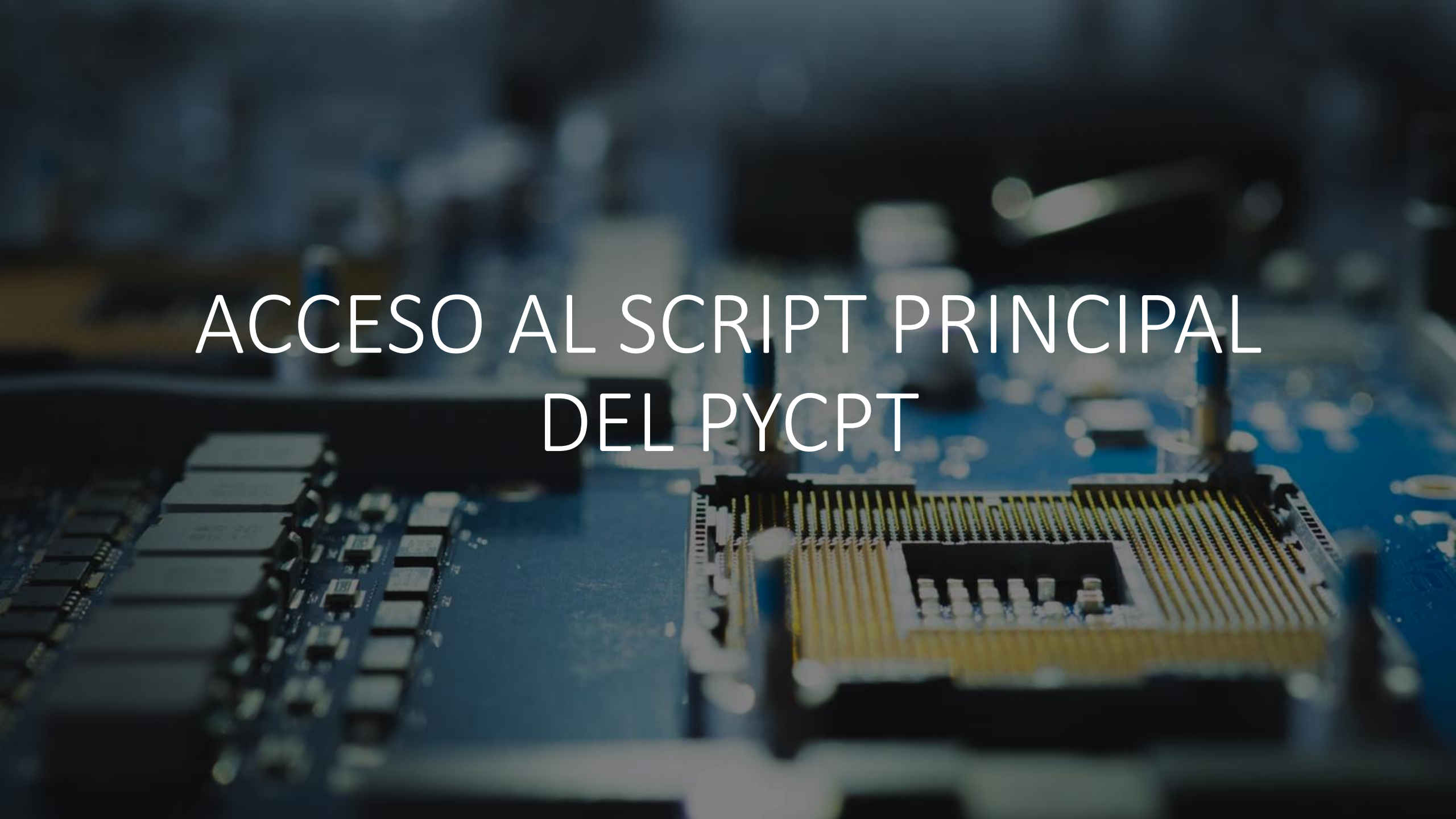
Creamos nuestro archivo de texto y copiamos los dígitos de nuestra clave generada de 104 dígitos al archivo de texto.



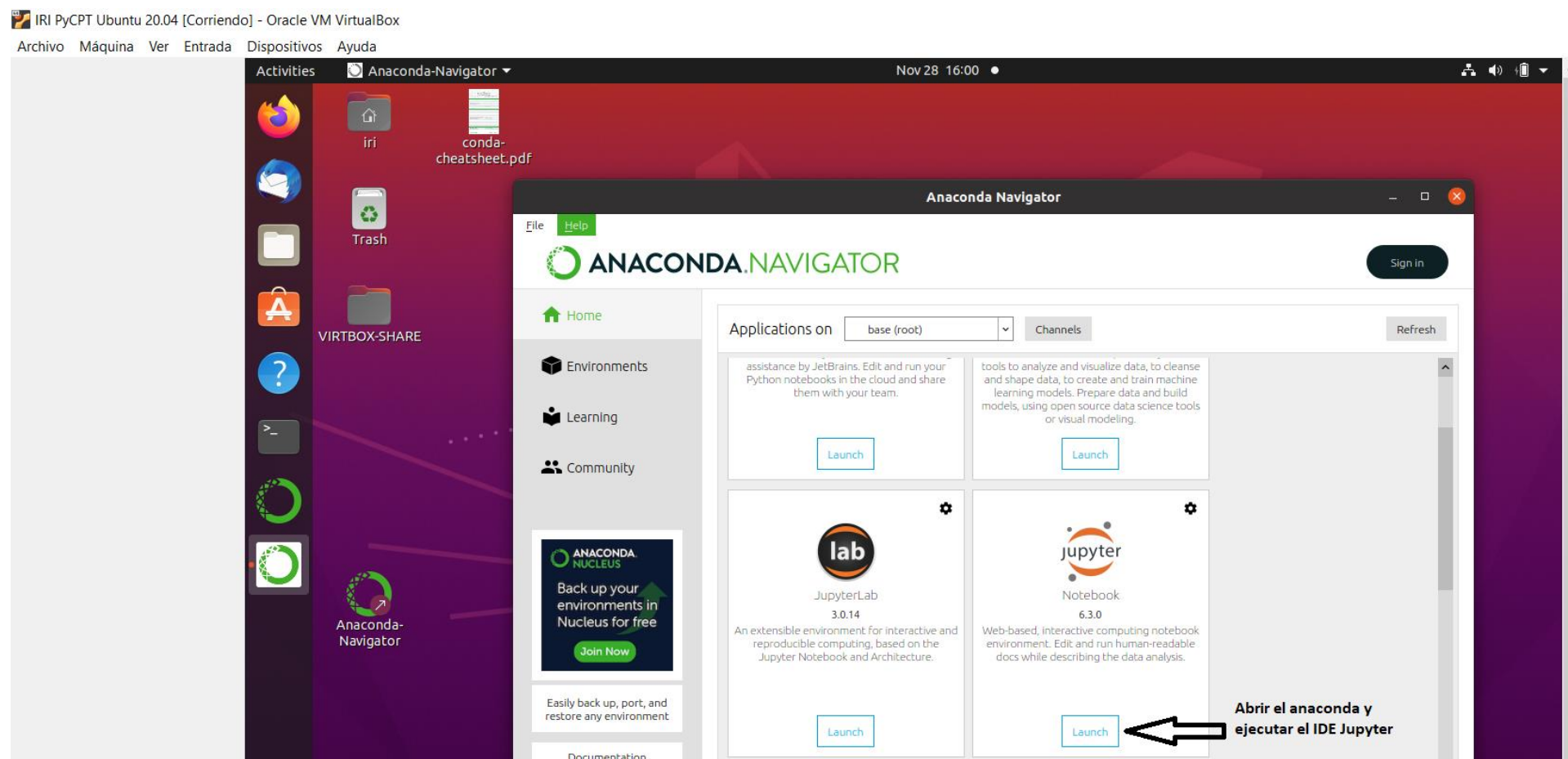
Guardamos el archivo de texto con el nombre .IRIDLAUTH



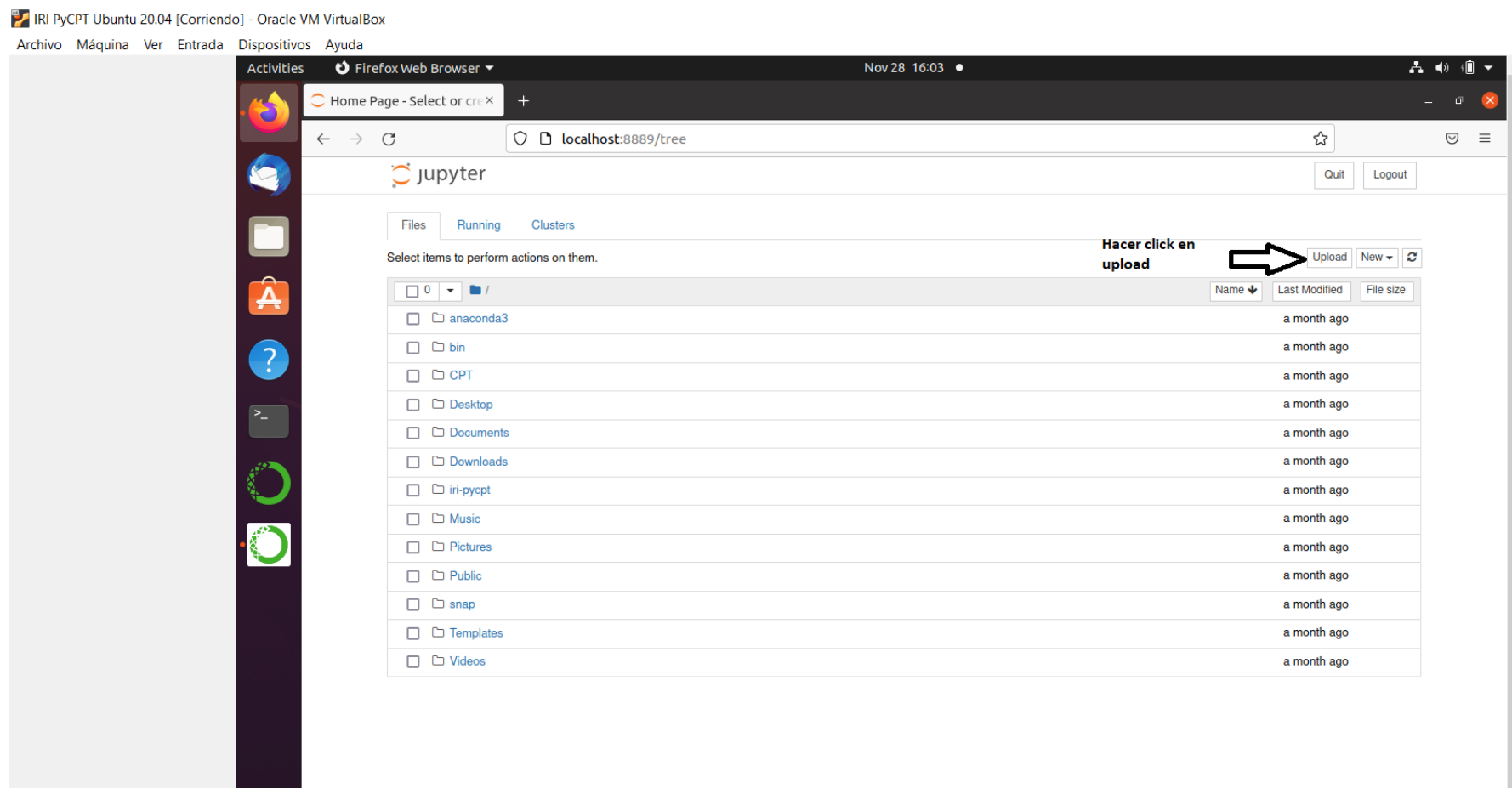
ACCESO AL SCRIPT PRINCIPAL DEL PYCPT



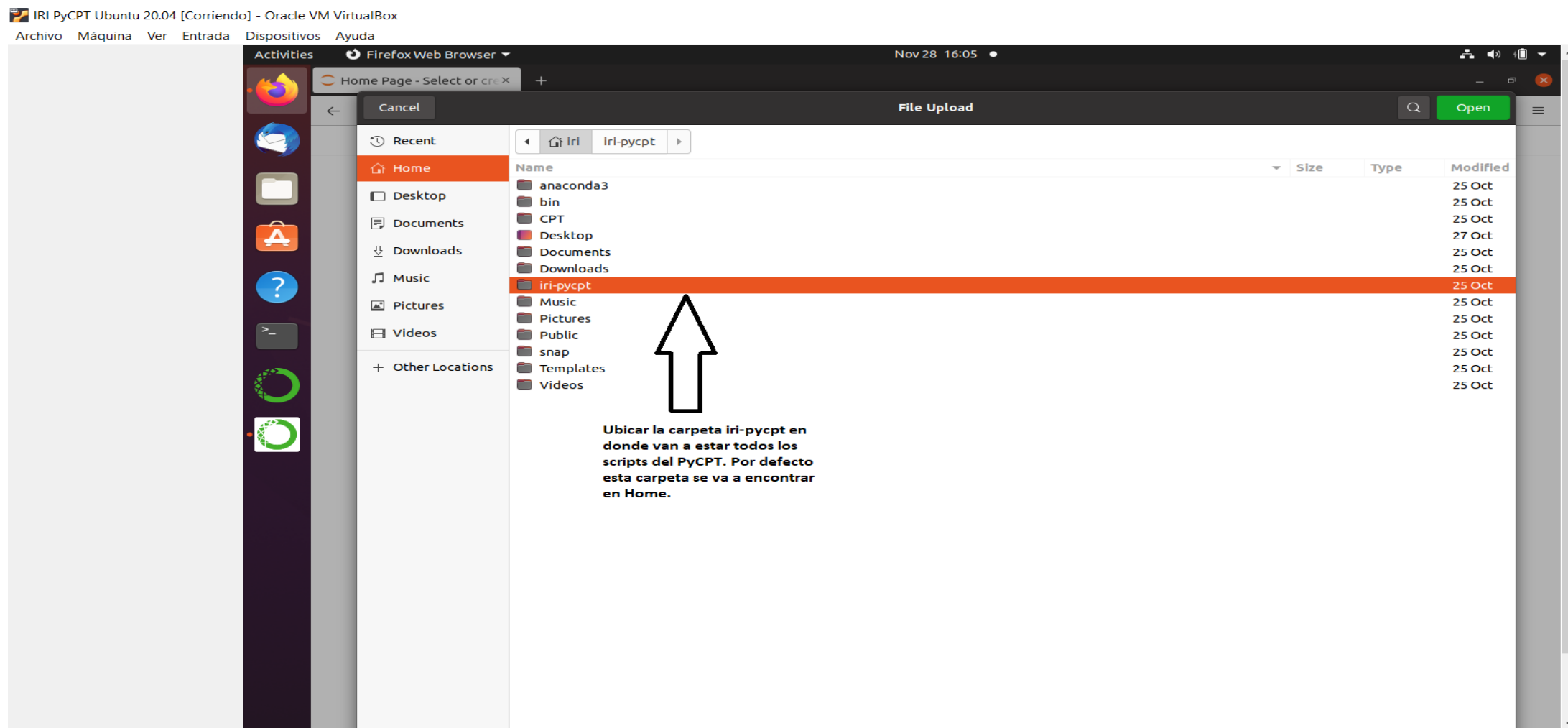
Abrimos el Anaconda Navigator. Damos click en launch y ejecutamos el IDE Jupyter



Hacemos click en upload para cargar el script de nuestro interes



Buscamos el script en la carpeta iri-pycpt



Seleccionamos el script PyCPT_s2sv1.9.ipynb y damos click a open

IRI PyCPT Ubuntu 20.04 [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Activities Firefox Web Browser

Home Page - Select or create new tab

Cancel

Recent

Home

Desktop

Documents

Downloads

Music

Pictures

Videos

Other Locations

iri iri-pycpt

Name	Size	Type	Modified
figures			25 Oct
old_versions			25 Oct
CODE_OF_CONDUCT.md	3.4 kB	Text	25 Oct
iri-dev.yml	4.6 kB	Text	25 Oct
LICENSE.md	35.1 kB	Text	25 Oct
pycpt_dictionary.py	261.2 kB	Text	25 Oct
pycpt_functions.py	272.3 kB	Text	25 Oct
pycpt_functions_seasonal.py	239.3 kB	Text	25 Oct
PyCPT_s2sv1.9.ipynb	303.5 kB	Document	25 Oct
PyCPT_s2sv1.9_elr.ipynb	1.2 MB	Document	25 Oct
PyCPT_seav1.9.ipynb	2.8 MB	Document	25 Oct
PyCPT_seav1.9_elr.ipynb	2.2 MB	Document	25 Oct
README.md	3.6 kB	Text	25 Oct

Nov 28 17:21

Open

Seleccionamos el script PyCPT_s2sv1.9.ipynb y le damos click en open. El boton verde de la esquina superior derecha.

Finalmente hemos accedido al script principal del PyCPT

IRI PyCPT Ubuntu 20.04 [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Activities Firefox Web Browser

Home Page - Select or create a new notebook PyCPT_s2sv1.9 - Jupyter


localhost:8890/notebooks/PyCPT_s2sv1.9.ipynb

jupyter PyCPT_s2sv1.9 Last Checkpoint: a few seconds ago (unsaved changes) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run

Markdown

 **PyCPT s2sv1.9 (6 Nov 2020)**

Produce S2S (un)calibrated forecasts and assess associated skill

Requires:
CPTv16.5.2+

Authors:
Authors: AG Muñoz (agmunoz@iri.columbia.edu), AW Robertson (awr@iri.columbia.edu), Cuihua Li (OCP), Bohar Singh (IRI), T Turkington (NEA), SJ Mason (IRI)

Acknowledgements:
Rémi Cousin (IRI, key Ingrid code), James Doss-Gollin (Columbia Water Center, original download Python functions). Part of the effort to develop PyCPT is funded by the Columbia World Project "Adapting Agriculture to Climate Today, for Tomorrow" (ACToday), and NOAA MAPP's projects NA18OAR4310275 (Muñoz) and NA16OAR4310145 (Robertson).

Version log
See version.log in Github

Workflow

FINALMENTE HEMOS INGRESADO A NUESTRO SCRIPT PRINCIPAL EN DONDE VAMOS A EJECUTAR EL SCRIPT DEL PYCPT