

크롤링 차근차근 시작하기 (2/E) - 중급편

VirtualBox와 IE Driver

여러분의 파이썬/장고 페이스메이커가 되겠습니다.

가상머신에서의 윈도우 필요성

호스트 머신에서 격리된 환경 → 호스트와는 다른 원하는 구성이 가능

다양한 버전의 운영체제/브라우저를 동시에 운영이 가능 (with Remote Driver)

원하는 시점에 스냅샷을 떠두고, 언제라도 원하는 스냅샷으로 롤백이 가능

맥/리눅스에서도 윈도우를 통한 자동화 가능

다양한 가상머신 솔루션 : VirtualBox, VMWare, Hyper-V, Parallels

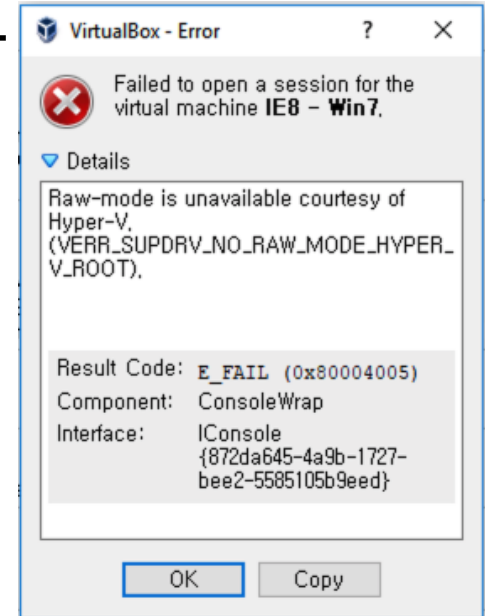
VirtualBox 설치

<https://www.virtualbox.org>

직접 다운로드 설치, 또는 Chocolatey 패키지 매니저를 통한 설치

윈도우에서 Hyper-V를 사용할 경우 VirtualBox 사용은 불가

윈도우10에서는 Docker 사용 시에 Hyper-V 필수



브라우저 테스트용, VMs 다운로드

<https://developer.microsoft.com/en-us/microsoft-edge/tools/vms/>

! 링크의 내용을 필히 확인하세요.

Select a download

Virtual machine

IE11 on Win7 (x86) ▼

Select platform

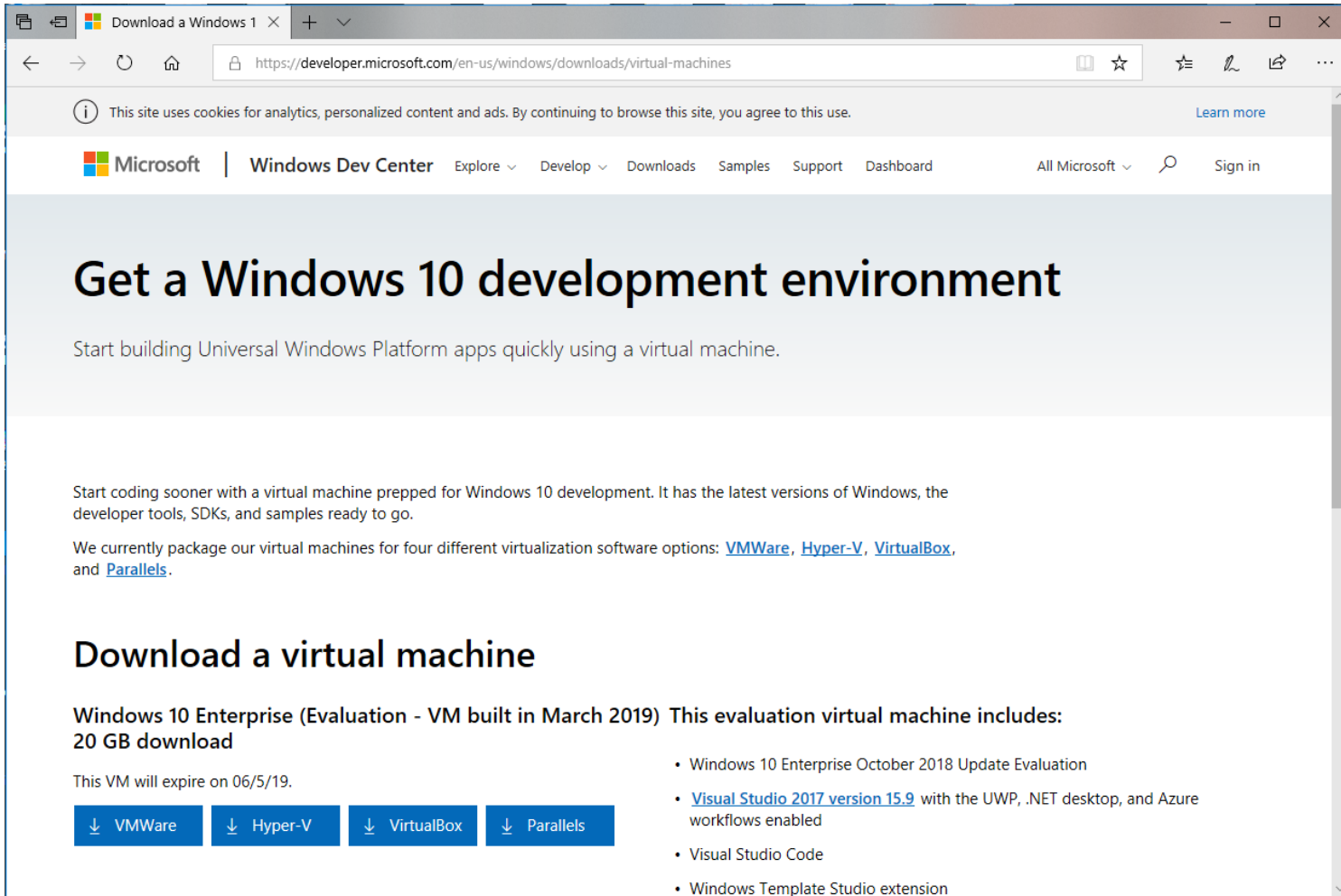
VirtualBox ▼

DOWNLOAD .ZIP >

These virtual machines **expire after 90 days**. We recommend setting a snapshot when you first install the virtual machine which you can roll back to later. Mac users will need to use a tool that supports zip64, like [The Unarchiver](#), to unzip the files. The password to your VM is "Passw0rd!"

윈도우10으로 구성된 개발용 VM도 지원

<https://developer.microsoft.com/ko-kr/windows/downloads/virtual-machines>



The screenshot shows a web browser window with the URL <https://developer.microsoft.com/en-us/windows/downloads/virtual-machines>. The page features a navigation bar with the Microsoft logo, 'Windows Dev Center', and links for 'Explore', 'Develop', 'Downloads', 'Samples', 'Support', and 'Dashboard'. A search bar and 'Sign in' link are also present. The main heading is 'Get a Windows 10 development environment', followed by the subtext 'Start building Universal Windows Platform apps quickly using a virtual machine.' Below this, a paragraph states: 'Start coding sooner with a virtual machine prepped for Windows 10 development. It has the latest versions of Windows, the developer tools, SDKs, and samples ready to go.' Another paragraph mentions: 'We currently package our virtual machines for four different virtualization software options: [VMWare](#), [Hyper-V](#), [VirtualBox](#), and [Parallels](#).' The section 'Download a virtual machine' follows, with details about 'Windows 10 Enterprise (Evaluation - VM built in March 2019)' and a '20 GB download'. A note indicates 'This VM will expire on 06/5/19.' Four download buttons are provided: 'VMWare', 'Hyper-V', 'VirtualBox', and 'Parallels'. A list of included features is shown on the right: 'Windows 10 Enterprise October 2018 Update Evaluation', 'Visual Studio 2017 version 15.9 with the UWP, .NET desktop, and Azure workflows enabled', 'Visual Studio Code', and 'Windows Template Studio extension'.

Download a Windows 10

<https://developer.microsoft.com/en-us/windows/downloads/virtual-machines>

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Get a Windows 10 development environment

Start building Universal Windows Platform apps quickly using a virtual machine.

Start coding sooner with a virtual machine prepped for Windows 10 development. It has the latest versions of Windows, the developer tools, SDKs, and samples ready to go.

We currently package our virtual machines for four different virtualization software options: [VMWare](#), [Hyper-V](#), [VirtualBox](#), and [Parallels](#).

Download a virtual machine

Windows 10 Enterprise (Evaluation - VM built in March 2019) This evaluation virtual machine includes:
20 GB download

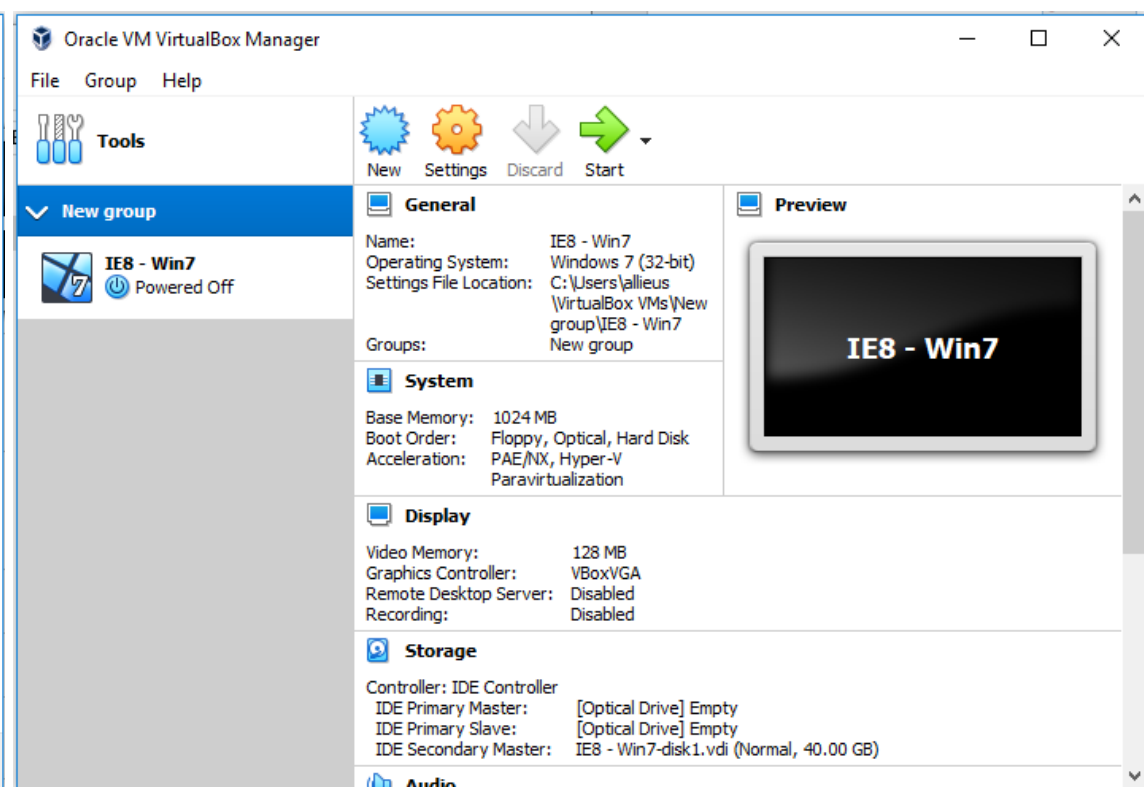
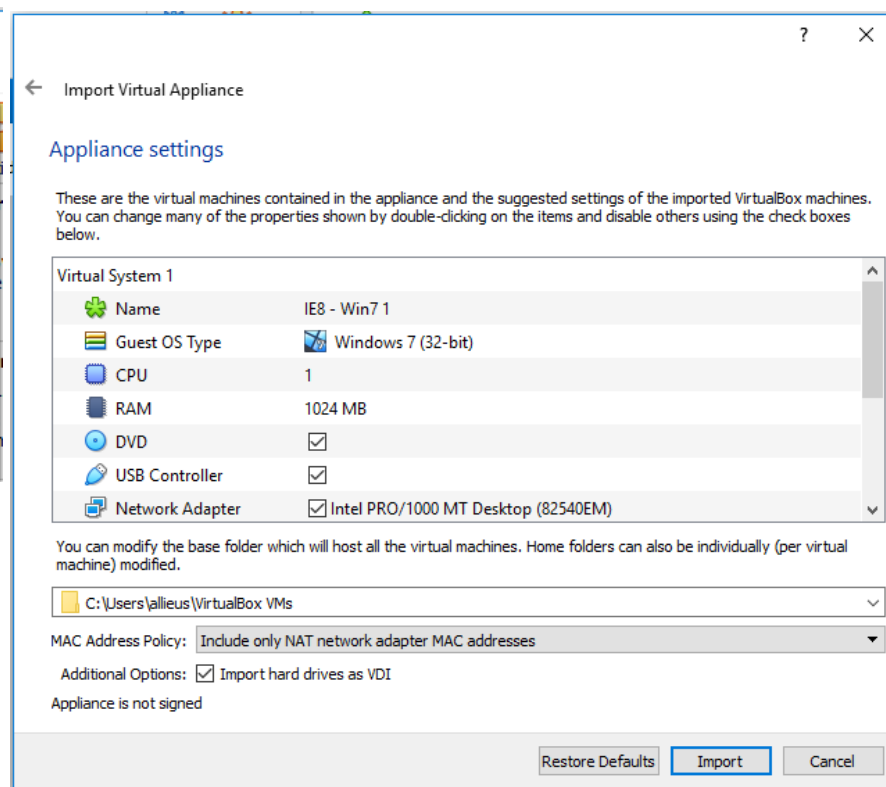
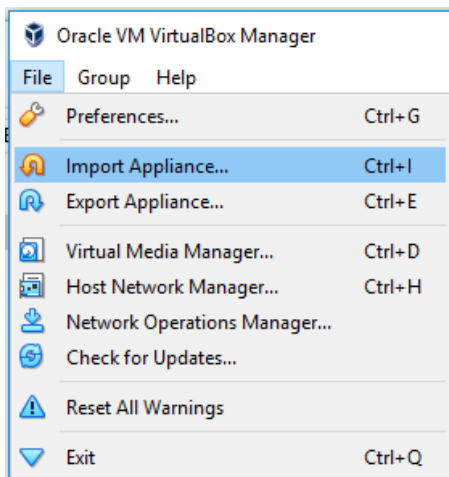
This VM will expire on 06/5/19.

[↓ VMWare](#) [↓ Hyper-V](#) [↓ VirtualBox](#) [↓ Parallels](#)

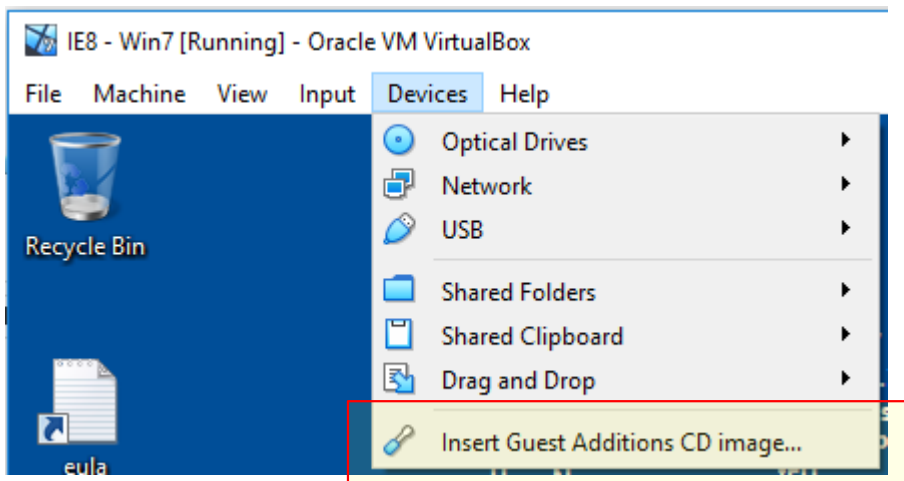
- Windows 10 Enterprise October 2018 Update Evaluation
- [Visual Studio 2017 version 15.9](#) with the UWP, .NET desktop, and Azure workflows enabled
- Visual Studio Code
- Windows Template Studio extension

다운받은 ova 파일을 통한, 가상머신 импорт/생성

Downloads > IE8.Win7.VirtualBox			
Name	Date modified	Type	Size
IE8 - Win7.ova	9/23/2015 9:33 PM	Open Virtualizatio...	4,465,839 KB

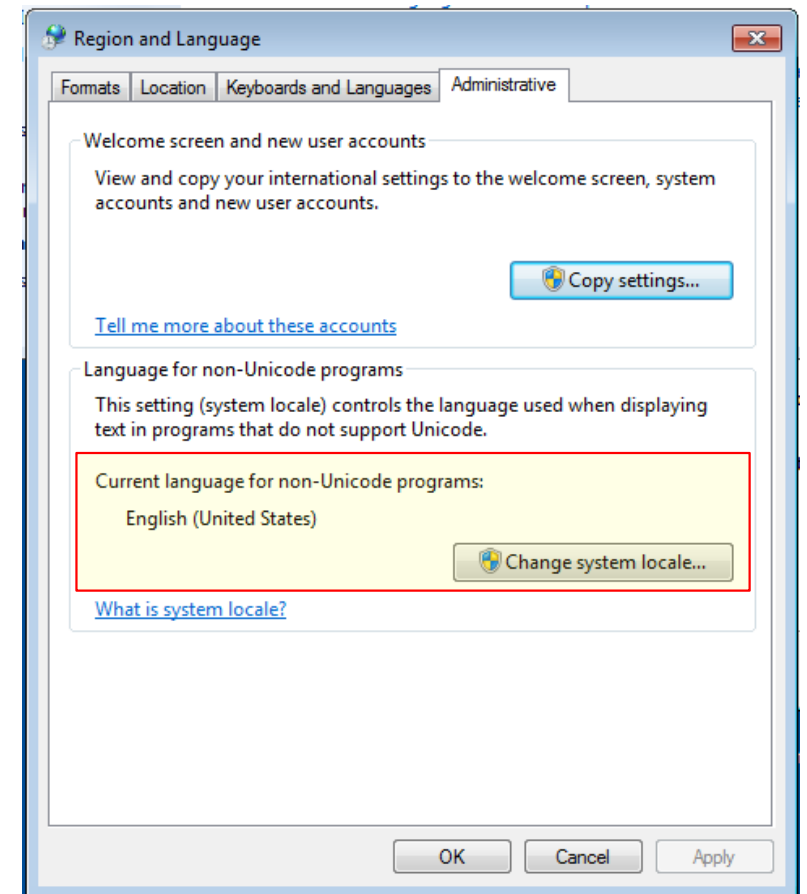
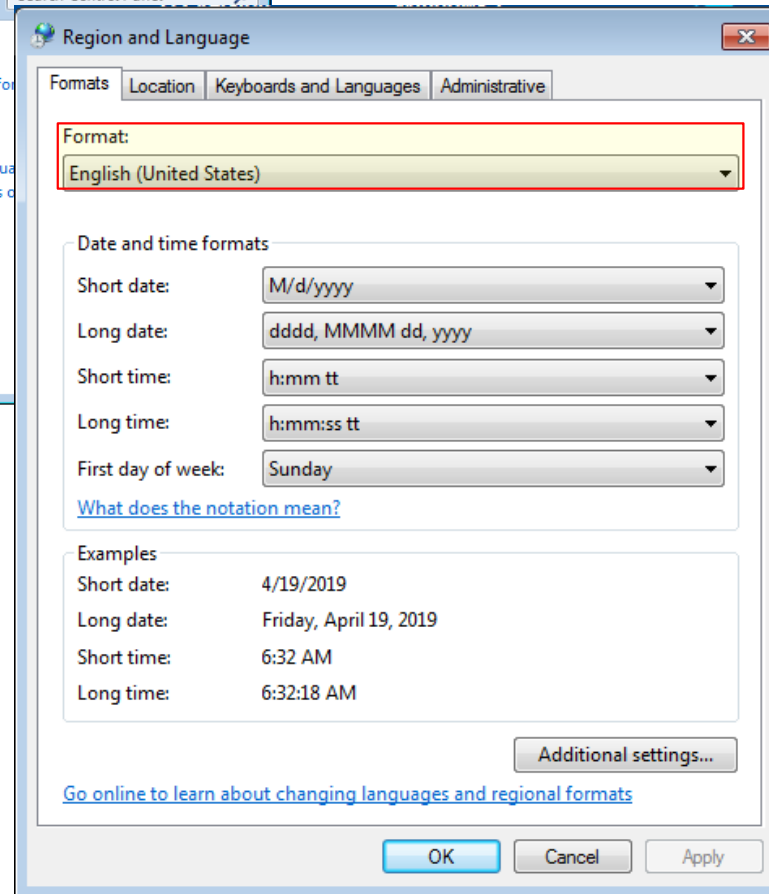
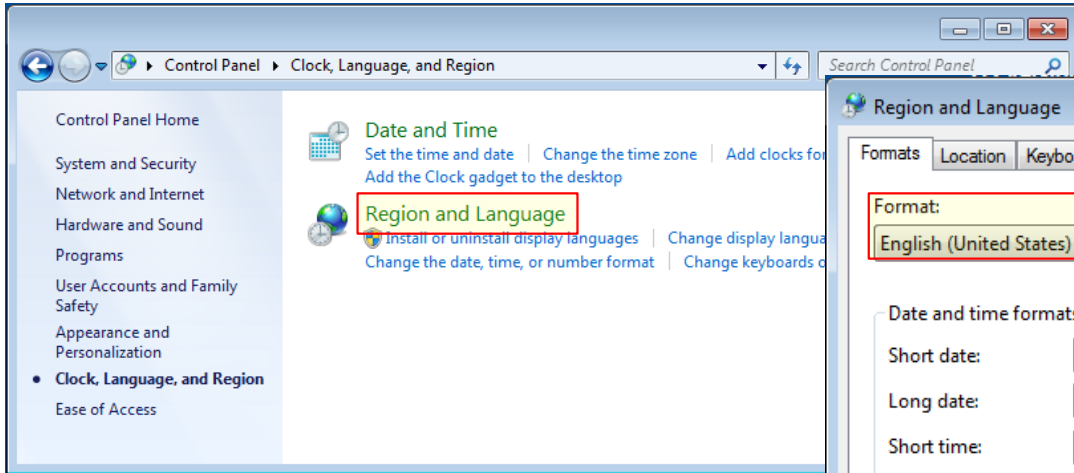


추가 VirtualBox 드라이버 설치



로케일 설정

많은 국내 ActiveX/윈도우 애플리케이션들이 유니코드를 지원하지 않습니다.



크롤링 환경 세팅

인터넷 익스플로러 : 인터넷 옵션 → 보호모드 모두 끄기

Chrome 설치

Python 설치

Selenium/requests/BeautifulSoup4/jupyter 등 설치

IEDriver 설치

VirtualBox 공유폴더/포트포워딩 설정 확인

쥬피터 노트북 서버 구동

```
mkdir %USERPROFILE%\.jupyter
```

```
jupyter notebook password
```

```
jupyter notebook --no-browser --ip=0.0.0.0
```

게스트 VM의 8888포트에서 Jupyter Notebook 구동됨

호스트 측에서 포트포워딩을 통해 접속해서 IEDriver 테스트

인생은 짧습니다.
파이썬/장고를 쓰세요.

여러분의 파이썬/장고 페이스메이커가 되겠습니다.

- Ask Company