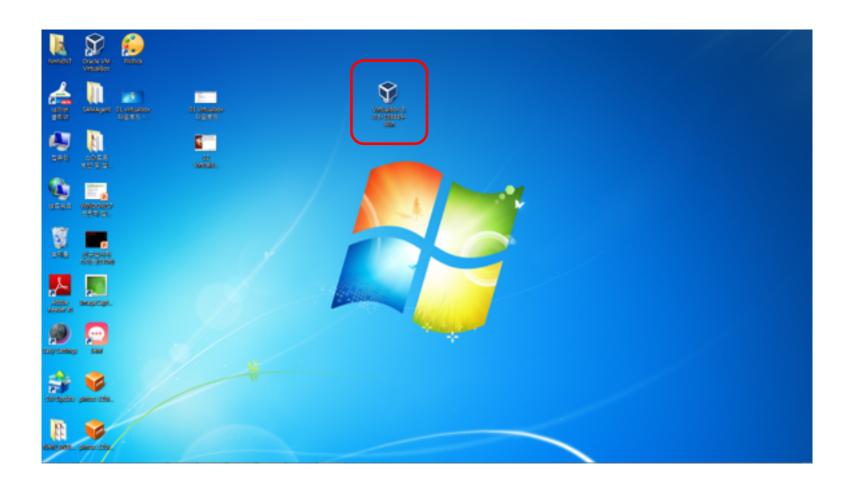
# 시스템SW 실습 환경 구축

# 1. VirtualBox 다운로드

 www.virtualbox.org 방문, virtualbox 5.0 다운로드 (VirtualBox 5.0.8 for Windows hosts용 선택)



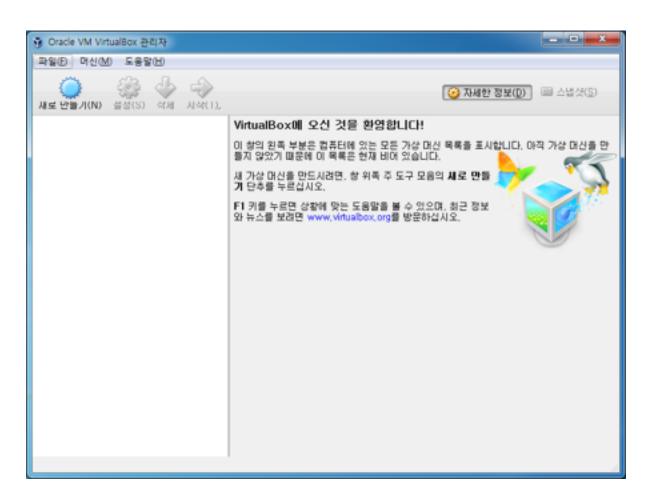


### 2. VirtualBox 설치 1/2



# 2. VirtualBox 설치 2/2

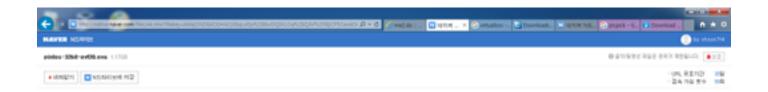
실행된 VirtualBox



#### 3. 네이버 계정 준비

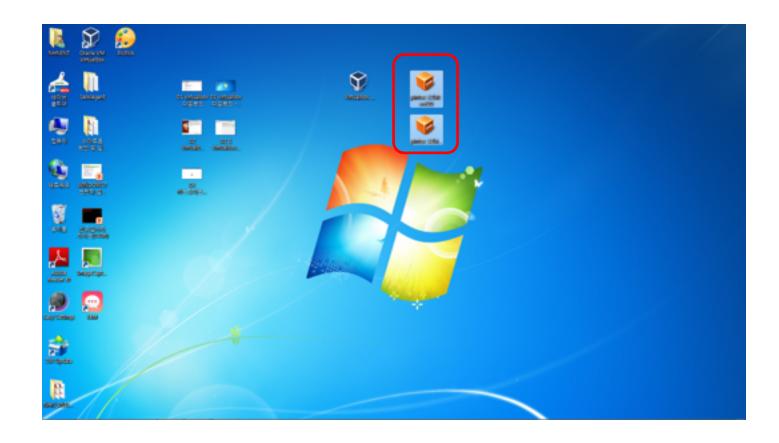
- 가상머신 파일을 네이버 클라우드를 통해 배포
- 네이버에 계정을 새로 만들기 (이미 계정을 가지고 있으면 이 과정 생략 가능)
- 다운로드 URL
  - http://me2.do/5ilGsRTf 에 접속, virtual machine file 다운로 드 받기 (파일명 sys-ubuntu-32bit-ovf-1.ova)
  - 다운로드 유효기간 만료일은 5/3일까지
  - 파일 크기는 각각 약 1.1GB

# 4. 가상 머신 파일 다운로드



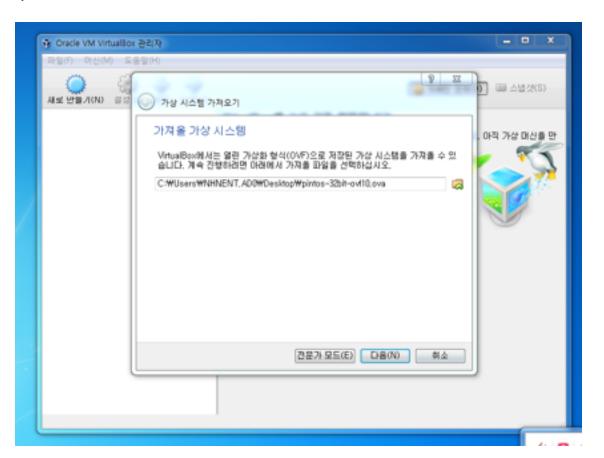


BRES | SEE | STATE



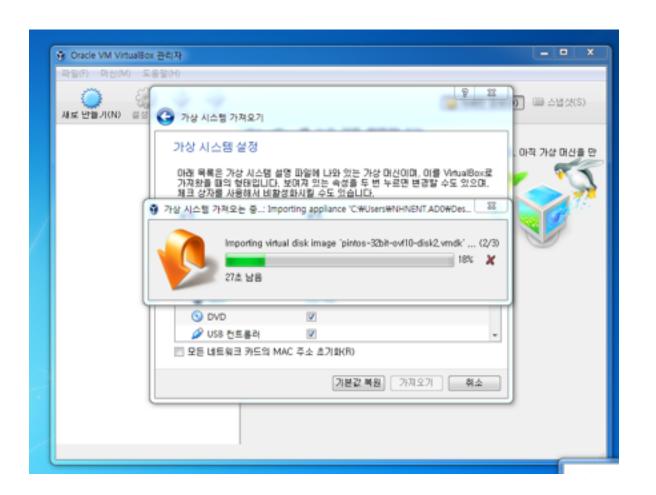
### 5. 가상 머신 가져오기 1/3

• VirtualBox 실행 후, [파일]-[가상 시스템 가져오기] 메뉴 를 실행, 앞서 다운로드 받은 파일을 열기



### 가상 머신 가져오기 2/3

• 가상 머신 가져오는 과정



# 가상 머신 가져오기 3/3

• 가져오기 완료된 가상 머신 실행



### 6. 가상 머신 실행

• 가상 머신의 실행 (가상머신 암호는 syssw)

```
pintos-32bit [NB 8] - Drack VM Vinuali

■ 1 4:21PM 1 Pintos 0

        📵 🗇 💮 pintos@pintos-VirtualBax: -/pintos/arc/threads/build
       pintos@pintos-VirtualBox:-/pintos/src/threads/buildS
       pintos@pintos-VirtualBox:-/pintos/src/threads/build5 pintos -v -- run alarm-multiple
       Prototype mismatch: sub main::SIGVTALRM () ws none at /home/pintos/pintos/src/utils/pintos line 9
       Constant subroutine SIGVTALRM redefined at /home/pintos/pintos/src/utils/pintos line 927.
       warning: can't find souish-pty, so terminal input will fail
                               Bochs x86 Emulator 2.6.2
                       Built from SVN snapshot on May 26, 2013
                         Compiled on Oct 30 2015 at 15:49:36
                            1 reading configuration from bochsrc.txt
                           | bochsrc.txt:8: 'user_shortcut' will be replaced by new 'keyboard' option.
                          ] installing negul module as the Bochs GUI
                         ] using log file bechseut.txt
       Kernel command line: run alarm-multiple
       Pintos booting with 4,896 kB RAM..
       383 pages available in kernel pool.
       383 pages available in user pool.
       Calibrating timer... 204,600 loops/s.
       Boot complete.
       Executing 'alarm-multiple':
       (alarm-multiple) begin
       (alarm-multiple) Creating 5 threads to sleep 7 times each.
Narm-multiple) Thread 0 sleeps 10 ticks each time,
        larm-multiple) thread 1 sleeps 20 ticks each time, and so on.
        larm-multiple) If successful, product of iteration count and
        larm-multiple) sleep duration will appear in nondescending order.
       (alarm-multiple) thread 8: duration=10, iteration=1, product=10
(alarm-multiple) thread 0: duration=10, iteration=2, product=20
       (alarm-multiple) thread 1: duration=20, iteration=1, product=20
       (alarm-multiple) thread 2: duration=30, iteration=1, product=30
       (alarm-multiple) thread 0: duration=10, iteration=3, product=30
       (alarm-multiple) thread 3: duration=40, iteration=1, product=40
       (alarm-multiple) thread 0: duration=10, iteration=4, product=40
       (alarm-multiple) thread 1: duration=20, iteration=2, product=40
       (alarm-multiple) thread 4: duration=50, iteration=1, product=50
```

terminal 프로그램 아이콘