

Azure에도 명령 프롬프트가 있다고?

Azure CLI 2.0

with Bash & Raspberry Pi!

with Openstack Korea & Ubuntu Korea

Azure와 Linux, 그리고 오픈 소스

최영락

- 오픈스택 한국 커뮤니티 3기 대표
- Microsoft MVP (Cloud & Datacenter Mgmt., 2016 Jul ~ 2017 Jun)

모듈 개요

- Azure와 Linux Distro
- Azure & 오픈 소스 Ecosystem
- 명령 프롬프트와 Azure

Lesson 1: Azure와 Linux Distro

- Linux 운영체제
- Linux 배포판
- Azure 마켓플레이스와 Linux
- (More details..)

Linux 운영체제



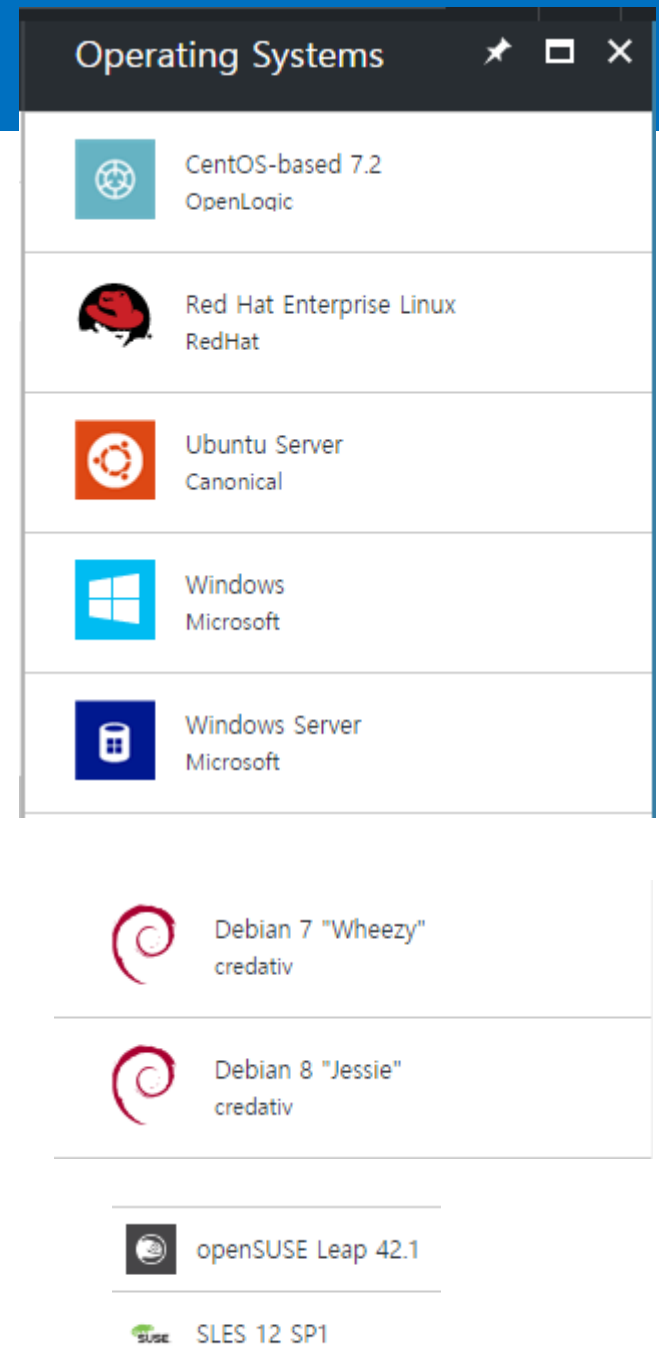
Linux 운영체제

- 엄밀하게 말하자면, 운영체제 핵심인 커널만을 의미하기도 함
- 일반적으로 리눅스 커널과 GNU 프로젝트의 라이브러리와 도구들이 포함된, 전체 운영 체제를 나타내는 용어
- 1984년 리처드 스톨만이 GNU 프로젝트 시작
 - 목적: 프리웨어로만 구성된 완전한 하나의 유닉스 시스템을 만드는 것

Linux 배포판

(다양한 배포판이 존재)

- Red Hat 계열
 - CentOS
 - RHEL (Red Hat Enterprise Linux)
- Debian 계열
 - Debian
 - Ubuntu by Canonical
- SUSE 계열
 - OpenSUSE
 - SLES (SUSE Linux Enterprise Server)



Azure 마켓플레이스와 Linux

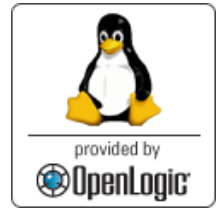
- Azure 마켓플레이스:
<https://azuremarketplace.microsoft.com>

The screenshot displays the Azure Marketplace interface. The top navigation bar includes 'Azure Marketplace', 'Browse', 'Sell', and 'Learn', along with a search bar and a user profile icon. The 'Product Category' section on the left shows 'Compute' and 'Operating Systems' as active filters. A sidebar on the left lists various categories like 'Featured', 'What's new', 'Virtual Machine Images', 'Solution Templates', 'Application infrastructure', 'Windows based', 'Linux based', 'Business applications', 'Networking', 'Storage', 'Web + Mobile', 'Databases', 'Intelligence + analytics', 'Internet of Things', 'Enterprise Integration', 'Security + Identity', 'Developer tools', 'Monitoring + Management', 'Add-ons', 'Containers', 'Blockchain', 'Azure Active Directory apps', and 'Test Drives'. The main content area, titled 'Product results (16)', displays a grid of Linux operating system offerings:

- CentOS - based Linux** (By OpenLogic): This distribution of Linux is based on CentOS and is provided by OpenLogic. Software plans start at Free. Get it now.
- Clear Linux OS** (By Clear Linux Project): A reference Linux distribution optimized for Intel Architecture. Bring your own license. Get it now.
- Container Linux by CoreOS** (By CoreOS): Container Linux by CoreOS. Software plans start at Free. Get it now.
- Debian Linux** (By credativ): Debian GNU/Linux for Microsoft Azure provided by credativ. Software plans start at Free. Get it now.
- FreeBSD 10.3** (By Microsoft Corporation): Get it now.
- openSUSE Leap 42.1** (By SUSE): Get it now.
- Red Hat Enterprise Linux 7** (By Red Hat): Red Hat Enterprise Linux 7 is the world's leading enterprise Linux platform built to meet the needs of today... Software plans start at US\$0.06 per hour.
- SUSE Linux Enterprise Server (BYOS)** (By SUSE): Increase Uptime, Improve Efficiency & Accelerate Innovation. Bring your own license.
- SUSE Linux Enterprise Server** (By SUSE): SUSE Linux Enterprise Server. Software plans start at Free.
- Ubuntu Server** (By Canonical): Ubuntu Server delivers the best value scale-out performance available. Software plans start at Free.

Linux 배포판

- 지원하는 Linux 종류
 - SUSE SLES 11 SP2, SP3
 - Open SUSE 12.3
 - CentOS 6.3 by OpenLogic*
 - Ubuntu 16.04 LTS, 16.10, 14.04 LTS, ...
 - Oracle Linux
 - Red Hat Enterprise Linux
- 특정한 목적을 가진 버전 또한 지원
 - Integration Components
 - Testing and validation by partners
 - Bring other variants at your own risk
- <https://docs.microsoft.com/ko-kr/azure/virtual-machines/virtual-machines-linux-endorsed-distros>



Azure & Partners

- 파트너십을 통해 다양한 VM 이미지 지원:
- 추가 이미지 커스터마이징 예시:



- Opscode: Chef



- Canonical: Juju



- ScaleXtreme



- RightScale



- Bitnami



Lesson 2: Azure & 오픈 소스 Ecosystem

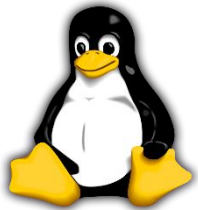
- 다양한 오픈 소스
- Microsoft와 오픈 소스 Ecosystem
- Azure: 오픈 클라우드

다양한 오픈 소스



Microsoft와 오픈 소스 Ecosystem

- Microsoft는 다양한 오픈 소스와 협력하고 있습니다



Azure: 오픈 클라우드

(가상 머신 실행 + Github 소스 연동 등도 지원)

MS Integrated

Languages, Dev
Tools & App
Containers



CMS & Apps



Devices



Databases



Management



Operating
systems



Ecosystem Provided



Jenkins

Bring your own

Windows® **Web App Gallery**

Dozens of .NET & PHP CMS and Web applications



Xamarin



APACHE CORDOVA™

Via HTML/JS, cross-platform and native



MySQL



mongoDB

DocDB
DataStax



ANSIBLE



SALTSTACK

libcloud
jclouds



VM Depot REVIEW
by Microsoft Open Technologies



FreeBSD

Bring
your own

Lesson 3: 명령 프롬프트와 Azure

- 명령 프롬프트
- PowerShell
- Bash
- Azure - GUI에서 다 될까?

명령 프롬프트

cmd Command Prompt

Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\lock> █

PowerShell

 Windows PowerShell

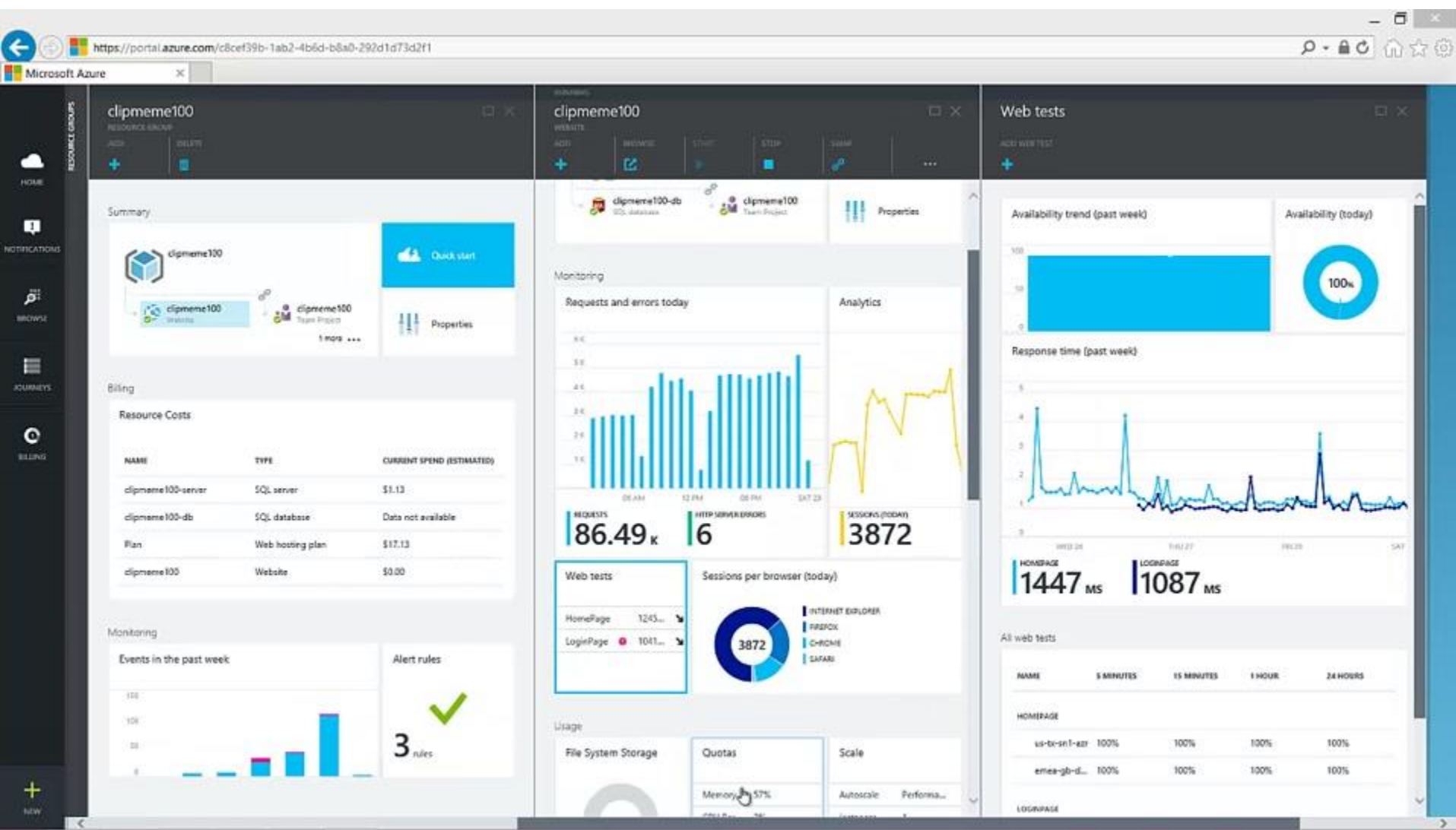
```
Windows PowerShell  
Copyright (C) 2016 Microsoft Corporation. All rights reserved.  
PS C:\Users\lock> _
```


Bash

 ian@LOCK-DESKTOP: ~

ian@LOCK-DESKTOP: ~\$ █

Azure Portal



(참고)

- <https://azure.microsoft.com/ko-kr/overview/choose-azure-opensource/>
- <https://docs.microsoft.com/ko-kr/azure/virtual-machines/virtual-machines-linux-endorsed-distros>