

Lightweight Cloud Application Marketplace

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Outline

- Recalling Ezilla from NCHC
- What's new after PRAGMA24
 - Cloud Appliance – the Marketplace
 - Cloud Interoperability – VM converter
- Demo

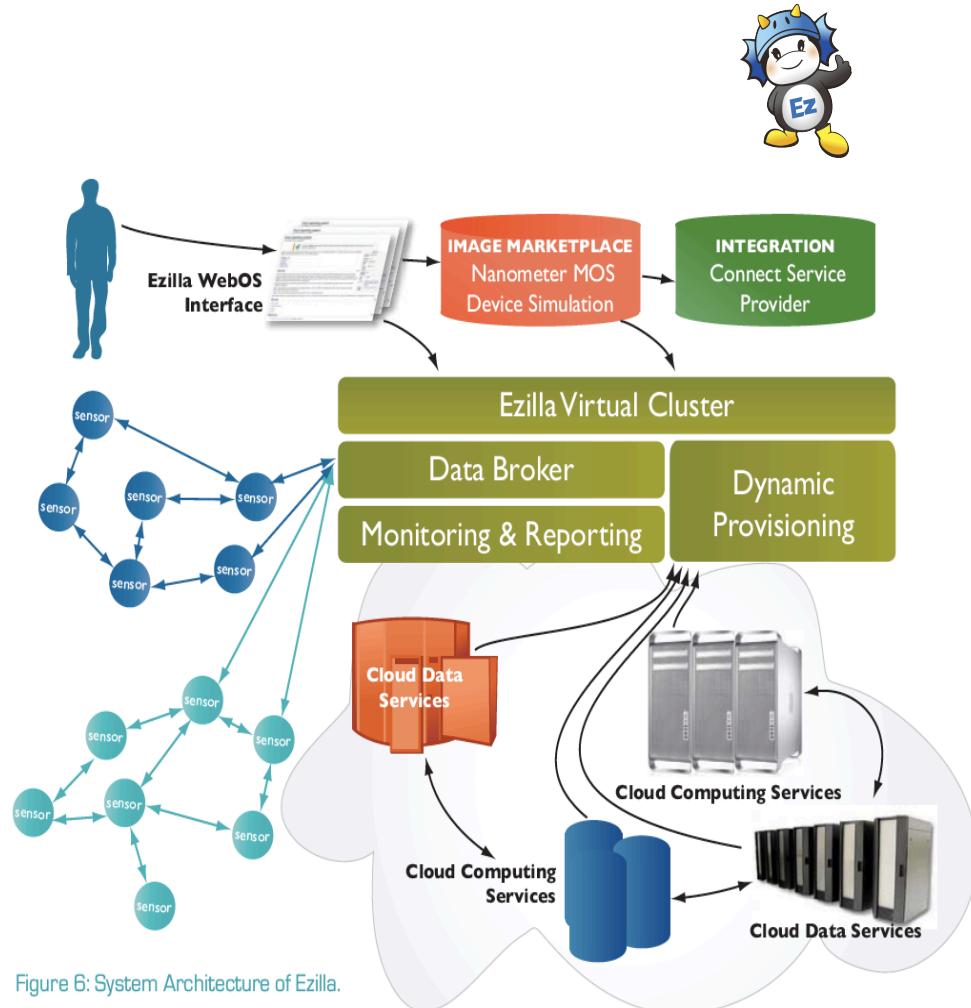
Cloud Computing Middleware – Ezilla

Ezilla

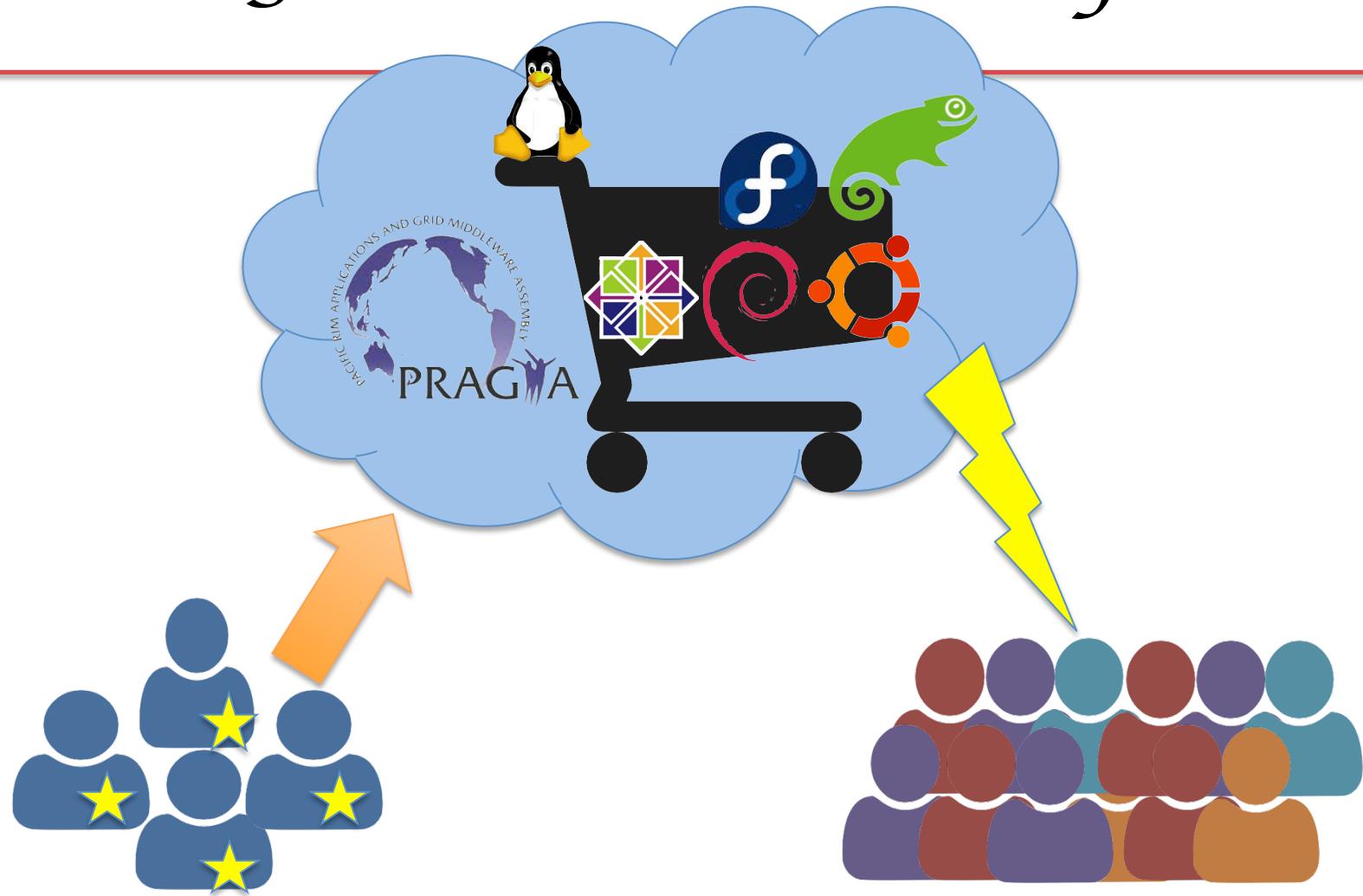
- Cloud Environment Management toolkit
- Virtual Resources on demand
- Web-based *GUI*
- Auto-*installation* for fast deployment
- *EasyCloud* on-line service

Update

- *Interoperability*
- *Concept of Appliance*
- *GPU pass-through*

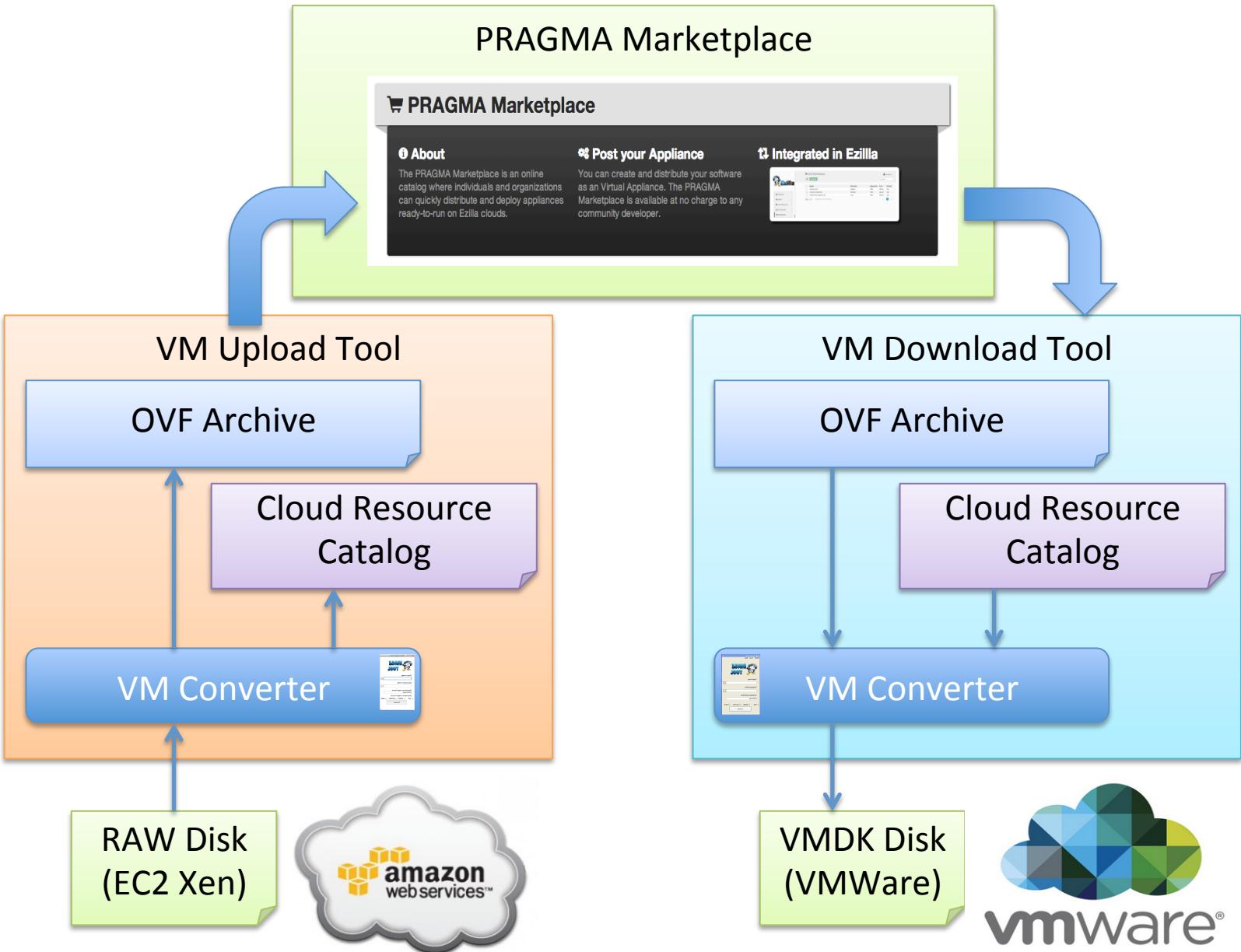


PRAGMA AP Marketplace



PRAGMA AP Developer

PRAGMA Community/Global users



Implementation

PRAGMA Federation Repository

Web Module

PRAGMA Marketplace

About

The PRAGMA Marketplace is an online catalog where individuals and organizations can quickly distribute and deploy appliances ready-to-run on Ezilla clouds.

Post your Appliance

You can create and distribute your software as an Virtual Appliance. The PRAGMA Marketplace is available at no charge to any community developer.

Integrated in Ezilla



Catalog Module

XML-RPC

Catalog Receiver

Catalog Info Provider

VM Disk Receiver

VM Disk Provider



Database

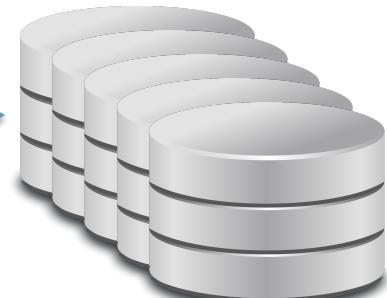


File Services

- Metadata Service to bridge cloud users and available VM images
- Registration Service for VM Owner (storage designated by owner)
- Centralized Repository for VM Images
- Tool to convert VM Formats



http://www.
Remote Storage Space



Local Repository

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Integrated in Ezilla



pragma

CentOS from vmdk to raw

[More Info](#)

PUBLISHER
nchc
 CATALOG
community
 DOWNLOADS
10

— CentOS from vmdk to raw

HYPERVISOR
KVM
ARCH
x86_64
FORMAT
raw

CentOS-6.4-Minimal

[More Info](#)

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— CentOS-6.4-x86_64-minimal

CentOS

HYPERVISOR
KVM
ARCH
x86_64
FORMAT
raw

http://sourceforge.net/projects/ezilla-nchc/files/Ezilla_2.0/VMImages/CentOS-6.4-x86_64-minimal.raw.sparse.tar.gz/download

Ezgo 9.1

[More Info](#)

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— Ezgo 9.1 Desktop

HYPERVISOR
KVM
ARCH
x86_64
FORMAT
raw

openSUSE-12.3-x86_64



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HYPERVISOR
KVM
ARCH
x86_64
FORMAT

- VM Format Converter

- Based on

- QEMU
 - vBoxManage

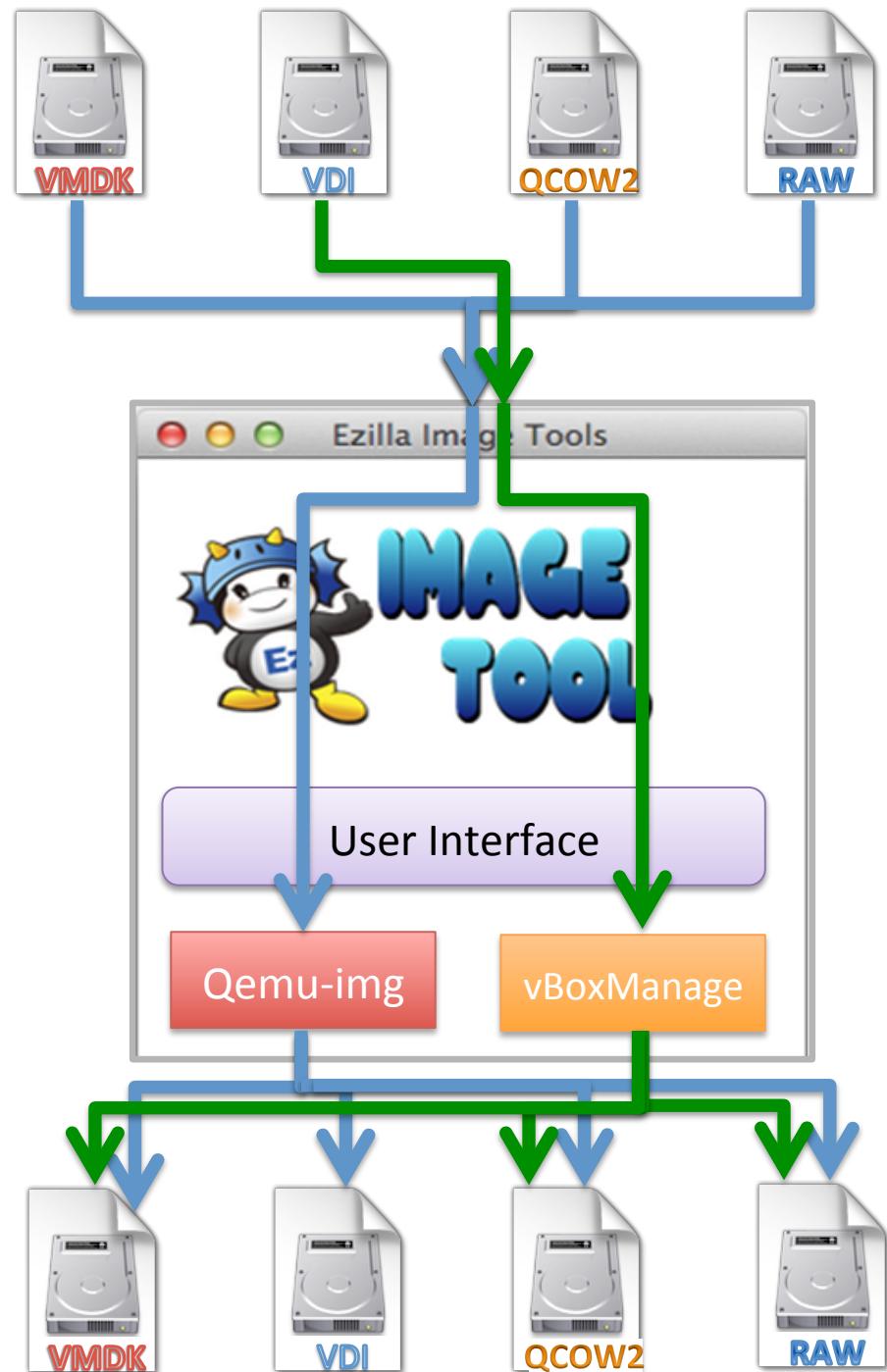
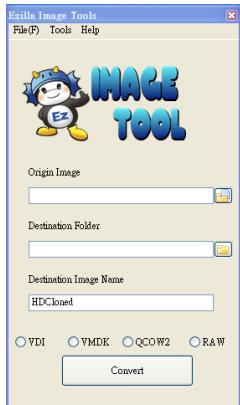
- Intuitive Interface

- Supporting various image formats

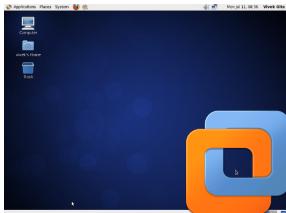
- VMDK, VDI, QCOW2, Raw

- Packaged for Installation

- Mac OS , Windows, Linux



I Need Cloud



VMDK

**IMAGE
TOOL**



Tar.gz



PRAGMA AP Marketplace



Ezilla

PRAGMA Cloud

Ezilla

NARLabs

National Applied Research Laboratories

**National Center for
High-performance Computing**

Reference

- EasyCloud Service
 - <http://easycloud.nchc.org.tw>
- Ezilla
 - <http://ezilla.nchc.org.tw>
 - <http://ezilla.info>
- Sourceforge
 - <http://ezilla-nchc.sf.net>
- PerComp Lab.
 - <http://percomp.nchc.org.tw>

