

SUSE® Cloud: Power your IT Staff with an Infrastructure as a Service Approach

Universidad Nacional Autónoma de México

José Luis Chiquete Valdivieso

IT Director

Dirección General de Incorporación y Revalidación de Estudios (DGIRE)
Universidad Nacional Autónoma de México (UNAM)

Juan Quintero

SUSE Sales Engineer - México

jquintero@suse.com



Universidad Nacional Autónoma de México

Universidad Nacional Autónoma de México

Introduction Facts

1

Is the biggest and one of the most important University Institution in Mexico and Latin America

2

According to International rankings, is the most prestigious University in Mexico

3

UNAM has several National (Mexico) and International Campuses and Faculties

4

- Escuela Nacional Preparatoria (ENP) – National High School
- Colegio de Ciencias y Humanidades (CCH) – Science and Humanities College



Dirección General de Incorporación y Revalidación de Estudios DGIRE - Objectives

- Two main objectives:



Scholarship control of schools (private) that belongs to UNAM University System



Revalidate Foreign High Education (High School and College) regarding UNAM Academic Plans

DGIRE – UNAM

Challenges and Issues

Mission critical systems depend strongly from certain software and platform

Most systems are considered “Legacy” Solaris/SPARC

Implementation of an agile Private Cloud able to scale and deliver IT service that meets DGIRE - UNAM business needs, avoiding hardware and software Lock-In

Full reengineering of DGIRE – UNAM mission critical systems to KVM virtual machines with x86_64 platform and GNU/Linux

SUSE® Cloud

How Does SUSE® Cloud Help Achieve Growth and Cost Goals?



Long-Term
Platform with
Proven Support



Simplified
Management and
Continuous Operations



Maximizes Existing
Ecosystem and
Skills



Integrated Workload
Control for Hybrid
Clouds

SUSE® Cloud @ DGIRE - UNAM

Why DGIRE - UNAM chose SUSE®?

SUSE® Linux Enterprise

Key Differentiators for DGIRE - UNAM



SUSE[®] Cloud @ DGIRE - UNAM

SUSE® Cloud Today (2014)

DGIRE - UNAM



SUSE® Cloud



SUSE Cloud had been deployed in three nodes with at least:

- Two Xeon Intel processors
- Sixteen cores



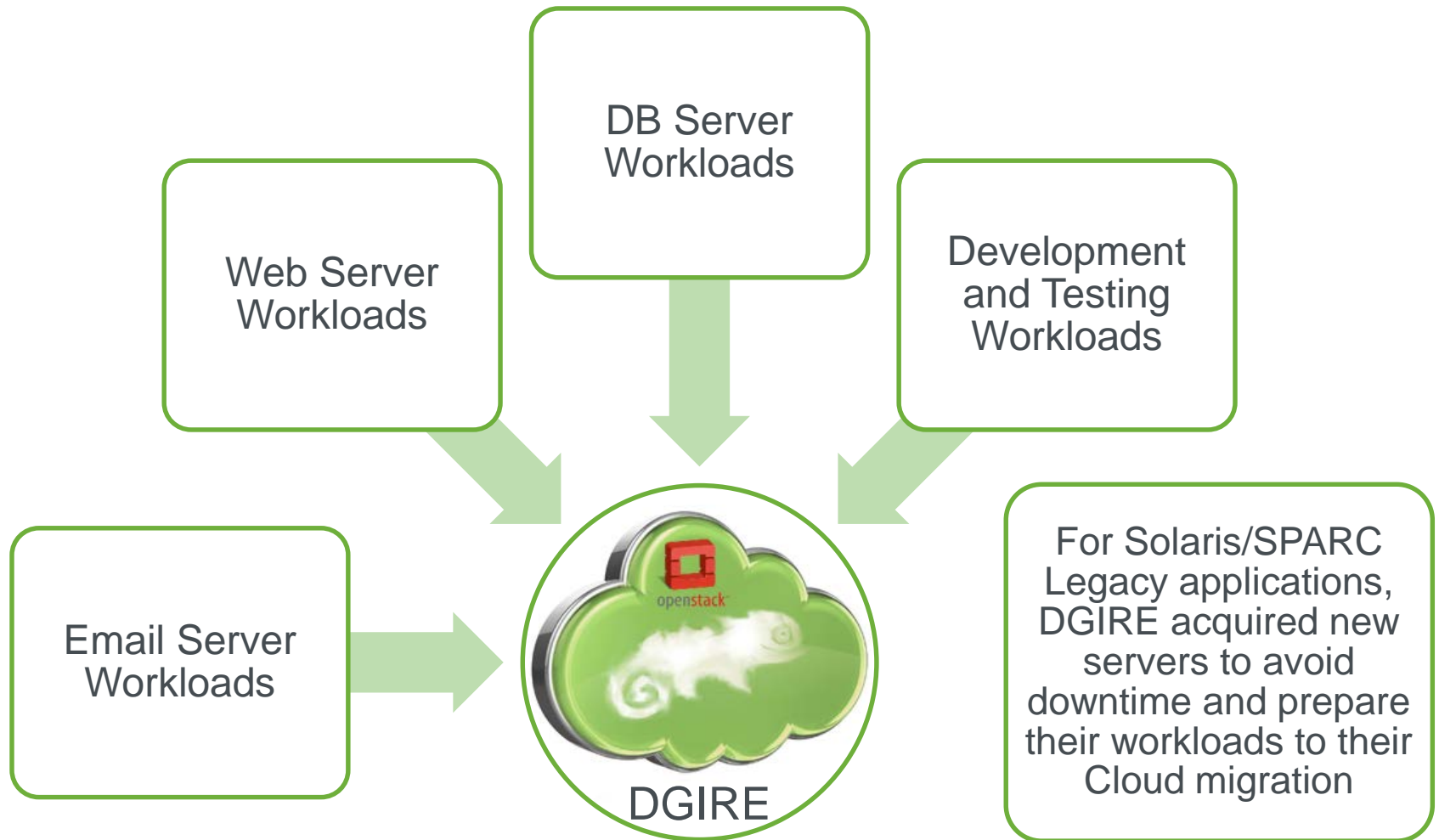
RAM Memory:
128 GB to 256 GB



Storage:
More than 10 TB (RAID10) in SUSE Cloud Storage Node – Cinder

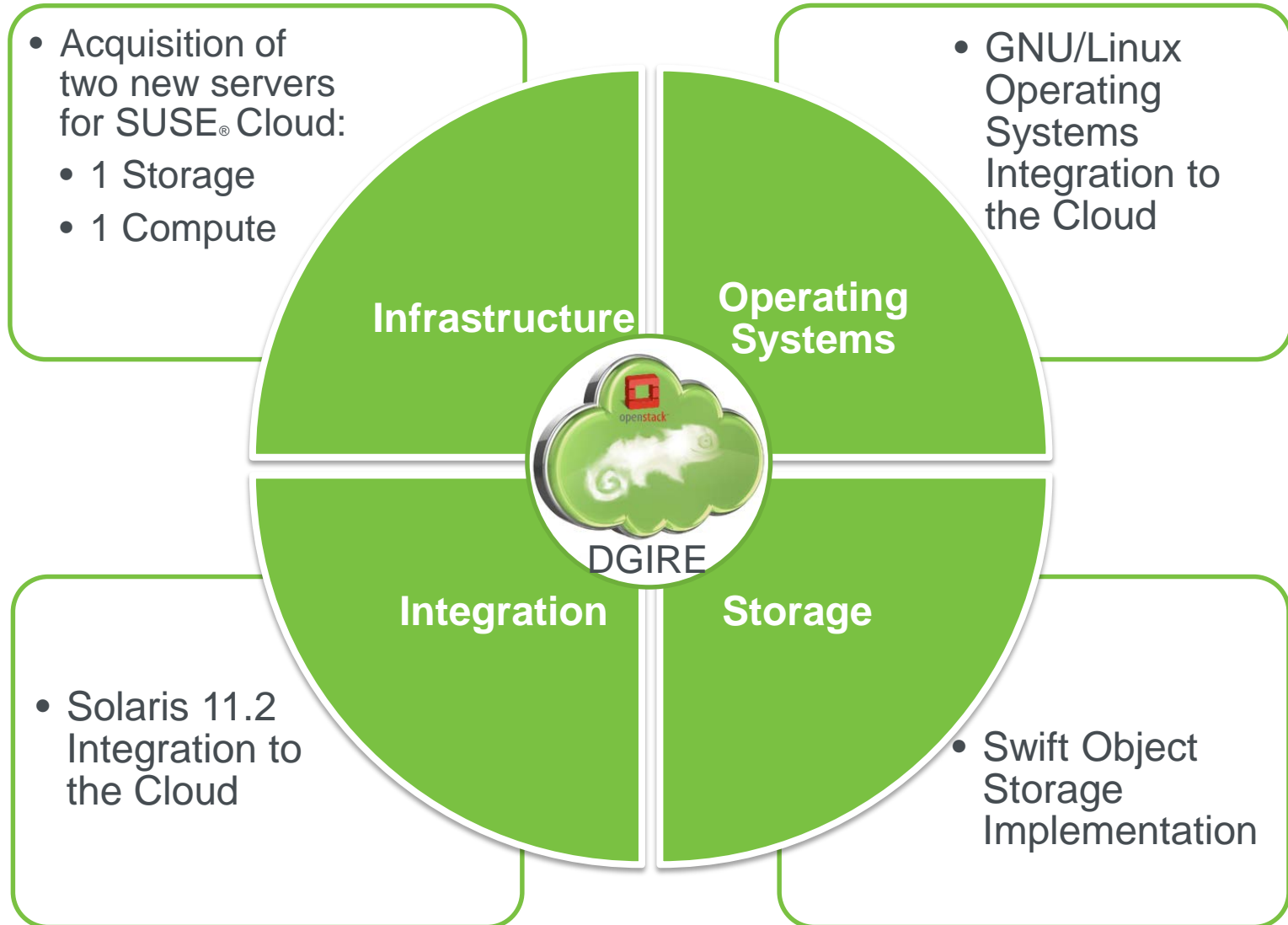
SUSE® Cloud Today (2014)

DGIRE - UNAM



SUSE® Cloud Future (2015)

DGIRE - UNAM



SUSE® Cloud Future (2016)

DGIRE - UNAM



DGIRE - UNAM

Benefits

Cloud Computing @ DGIRE - UNAM

- Avoid Legacy Systems
- Better Infrastructure Utilization
- Rapid Growth, Deployment and Implementation
- Cloud Adoption

- Pioneer Dependency in the Deployment of a Private Cloud Based in OpenStack

- This Private Cloud Deployment may be a Case of Success that allows Cloud Computing Adoption for the Entire University



We adapt. You succeed.





Unpublished Work of SUSE. All Rights Reserved.

This work is an unpublished work and contains confidential, proprietary, and trade secret information of SUSE. Access to this work is restricted to SUSE employees who have a need to know to perform tasks within the scope of their assignments. No part of this work may be practiced, performed, copied, distributed, revised, modified, translated, abridged, condensed, expanded, collected, or adapted without the prior written consent of SUSE. Any use or exploitation of this work without authorization could subject the perpetrator to criminal and civil liability.

General Disclaimer

This document is not to be construed as a promise by any participating company to develop, deliver, or market a product. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. SUSE makes no representations or warranties with respect to the contents of this document, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. The development, release, and timing of features or functionality described for SUSE products remains at the sole discretion of SUSE. Further, SUSE reserves the right to revise this document and to make changes to its content, at any time, without obligation to notify any person or entity of such revisions or changes. All SUSE marks referenced in this presentation are trademarks or registered trademarks of Novell, Inc. in the United States and other countries. All third-party trademarks are the property of their respective owners.

