

—— すべてのステークホルダーから信頼され支持される企業へ ——

**ADMIRED COMPANY**

# **Open Compute Engineering Summit Day2 Miscellaneous Development Workshop Unified Management**

**May 28<sup>th</sup> 2013**

**Net One Systems Co., Ltd.**

**Cloud team, Product Planning Department 2**

**Hiroshi Yamamoto**



1013-0528-0001

# Introduction



## **Hiroshi Yamamoto**

Manager, Product Planning Department 2  
Business Development Operations

**Have been Net One for 16 years**

## **Job experience:**

Joined Net One in 1997

1997-2006: Sales in Academic Market

2006-2007: Biz Dev in Storage and L4-7 Network

2007-Now: Biz Dev in Cloud Computing, ITOM,  
SDN,

## **Personal Info:**

- Born and raised in Osaka Japan
- Graduate University of Shinshu
- Love family, Car, Outdoor sports,  
Snow boarding, Road Bike...
- Favorite food: Sushi, Ramen, BBQ, Curry

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# **Cloud Computing**

# **IT Operation and Management**

# **SDN**

# **Incubating New Tech and Vendor**

# Vendor and Product I'm in charge



# **So What this vendor guy doing at Open Compute Project?**

# Researching Open Project



**I'm still learning what are  
these, and what I can do.**

**On be half of Netone Engineer  
and NetOne Group company  
like Xseed engineer,  
I'll be presenting next 10min  
speaking about  
Unified Management**



# Agenda

- Why we are here
- What we can do
- What is our idea

# Why we are here

# New Normal world

## IT gets Commodity

### Does IT Matter?

HWs are getting more commodity than ever,  
More Open Source Software have been used.

**Disruptive Tech. and Player are  
changing the world.**

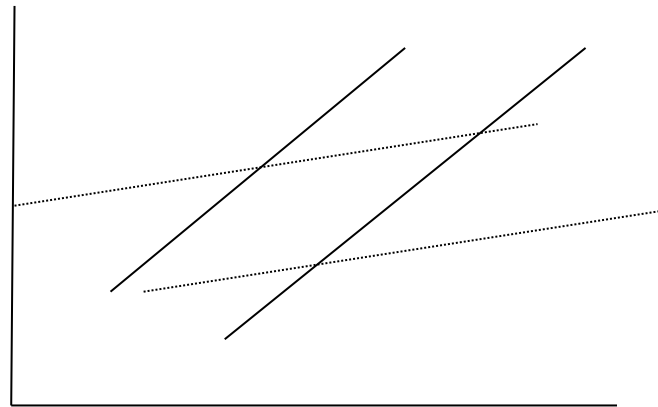
**Cloud Computing, SDN....  
Facebook, Google....**

# OCP is Open and Disruptive Innovation



**OPEN**  
Compute Project

# **We have to do something these disruptive technologies, in terms of Dealing with Darwin and Innovator's Dilemma**



# And We also liked it



**OPEN**  
Compute Project



いいね

**There are still missing pieces..**



# **What we can do (Unified Management)**

# **Unified Management (H/W, M/W, N/W)**

# **What is Management?**

**There are so many area and  
things to take care about  
management**

**Monitor, SLA, inventory,  
incident, ITIL, DCIM, BEMS,  
Dev/Ops, and more....**

**I would like to focusing on  
Dev/Ops**

**Because we want to find  
better way to reduce tons  
Operation works of Engineer  
so that Engineer can focus on  
more innovative and  
productive works**

and

Costs (3:7 rules of IT Budgets)

**Cole-san said yesterday,  
“we can use existing ITOM OSS  
software, cacti, Nagios, Zabbix,  
but difficult to implement and use”**

**But what if, we have tool set or  
framework that can give you  
easy/simple deployment**



WE HAVE SOLUTIONS!

Idea for Unified Management  
(as example of High level idea)



MULTI-CLOUD OPERATING FRAMEWORK

## SOLUTIONS | MULTI-CLOUD OPERATING FRAMEWORK

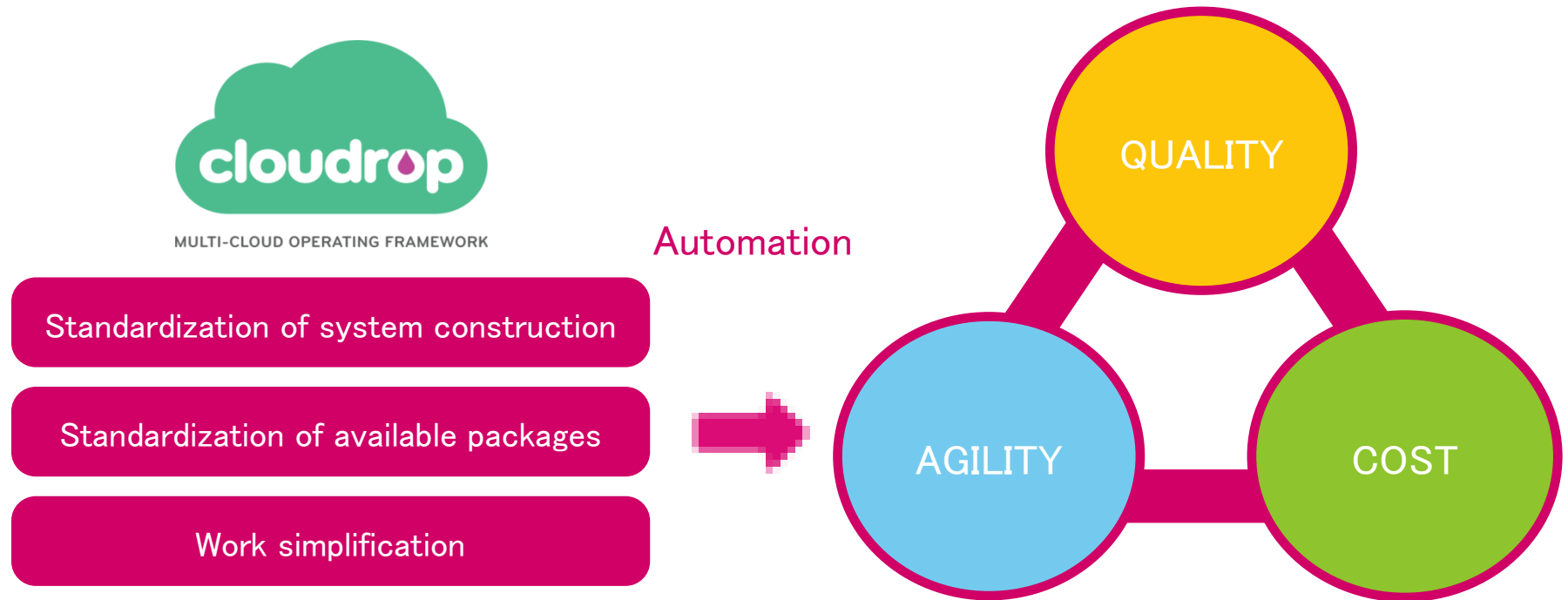
To Let Engineers Free...



MULTI-CLOUD OPERATING FRAMEWORK

Cloudrop is a framework that has been made in order to free engineers. Cloudrop is a framework that has been made in order to free engineers. Although the promotion of utilization of Cloud has resulted in increasing the number of the servers to be managed, it has also resulted in a chronic shortage of engineers. Cloudrop was made for the solution.

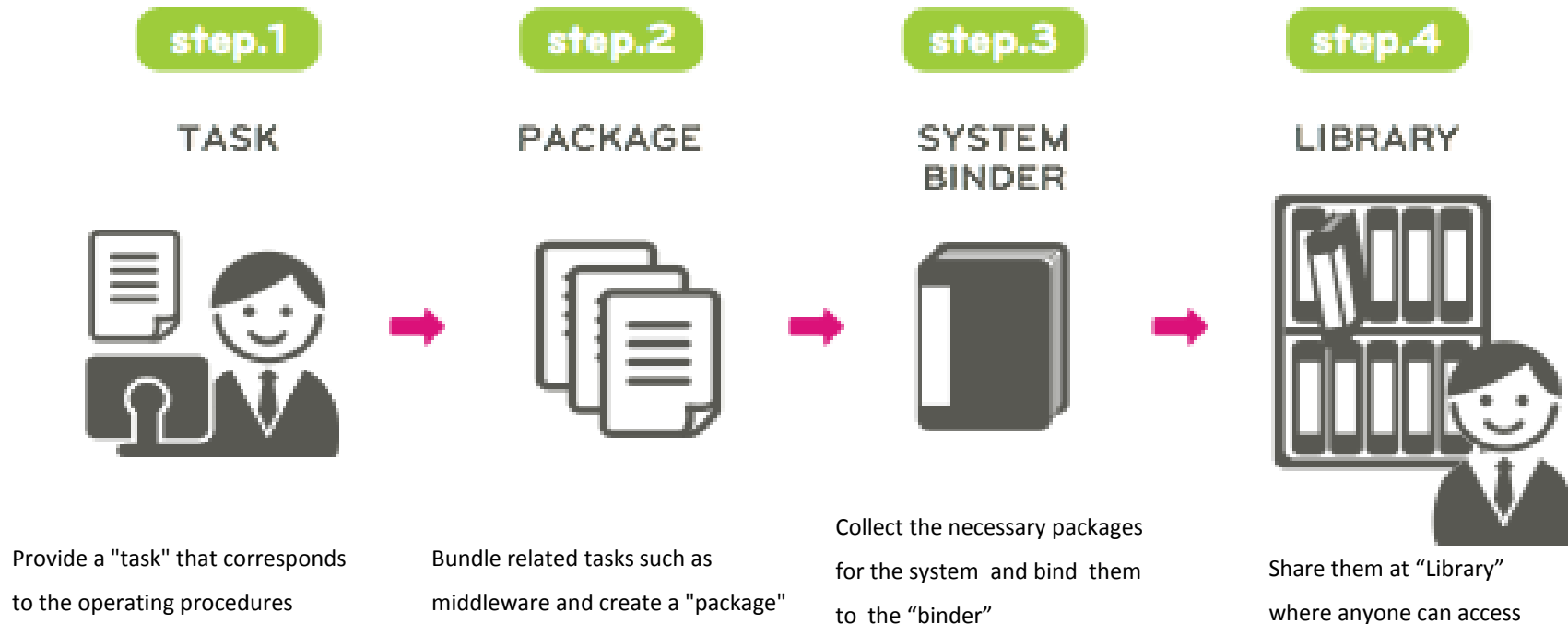
### Standardization to Implement Automation



Utilizing “MULTI-CLOUD OPERATING FRAMEWORK” developed by Xseed Co., Ltd helps promote standardization of system construction and operation and implement automation, hence it achieves an optimal balance between quality of work, agility, and cost.

## SOLUTIONS | MULTI-CLOUD OPERATING FRAMEWORK

### The Framework Where Anyone Can Construct and Operate Systems



Instead of working from scratch, engineers follow the four steps that have been prepared in advance, and proceed with system construction and operation. Cloudrop automatically accumulates know-hows in these processes and grows into easy-to-use framework.

## SOLUTIONS | INTERFACE DESIGN

### User-Friendly Interface



こちらの画面は、開発イメージです。

Cloudrop has a simple and user-friendly interface.

# SOLUTIONS | INTERFACE DESIGN

## User-Friendly interface



HOME

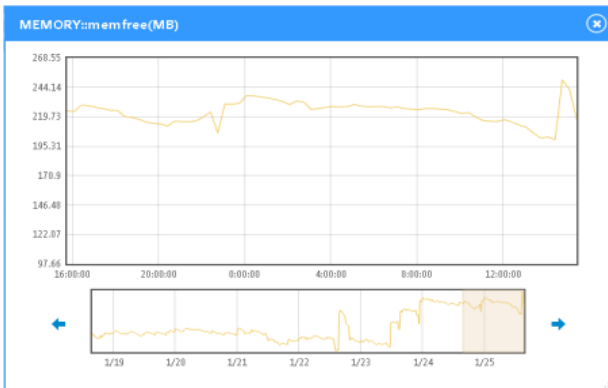
The 'List of managed servers' page displays a table with columns for Node ID, Server Name, Status, and Actions. The table lists several nodes (node110 to node101) with their respective server names and active statuses. Each row has a '操作' (Action) button.

ノードID	サーバ名	ステータス	操作
node110	sv110	Active	操作
node109	sv109	Active	操作
node108	sv108	Active	操作
node107	sv107	Active	操作
node106	sv106	Active	操作
node105	sv105	Active	操作
node103	sv103	Active	操作
node104	sv104	Active	操作
node102	sv102	Active	操作
node101	sv101	Active	操作

List of managed servers



Library TOP



Performance monitor

The 'Monitoring' page displays a table with columns for Test Pack, Status, and Actions. The table lists various system health checks (e.g., プロセス監視, ログ監視) and their current status (OK, Warning, Critical, Unknown). Each row has a '操作' (Action) button.

Test Pack	監視項目	ステータス	操作
プロセス監視	プロセス監視	Warning	設定
ログ監視	ログ監視	Warning	設定

Monitoring

The 'List of tasks' page displays a table with columns for Task Name, Status, and Actions. The table lists various scheduled tasks (e.g., OpenVPNクライアント起動監視生成, OpenVPNクライアント設定生成) and their current status (OK, Warning, Critical, Unknown). Each row has a '操作' (Action) button.

タスク名	監視項目	操作
OpenVPNクライアント起動監視生成	OpenVPNクライアント起動監視生成	評価 設定
OpenVPNクライアント設定生成	OpenVPNクライアント設定生成	評価 設定
OpenVPNクライアント監視	OpenVPNクライアント監視	評価 設定
ファイル監視	ファイル内容監視	評価 設定
コマンド実行	コマンド実行	評価 設定

List of tasks

# MULTI-CLOUD OPERATING FRAMEWORK

Chef + Puppet + User-  
Friendly  
interface

Including monitoring (OSS)



**MORE SERVERS,  
BUT  
LESS WORK &  
LESS TROBLES.**

**The beauty of **Clouddrop**  
**framework** is not only ease  
engineer's operation work, but  
also  
it can provide **Unified**  
**Management** of heterogeneous  
Cloud environments**

# What is our idea



# **Unified Management Framework**

**Change the world  
in a better place**

# **Unified Management Framework**

**Chef + Puppet + UI  
Tools**

**with monitoring feature**

# Summary

## □ Why we are here

□ We liked it



**OPEN**  
Compute Project



## □ What we have

□ We have frame work by using OSS(Chef, Puppet)

## □ What is our idea

□ Build OCP version of Frame work for Unified Management





**If we built it,  
they will come**

by : werkunz1



A globe of the Earth is centered in the image, showing the Americas. It is being held up by several hands of different skin tones, including light, medium, and dark. The hands are positioned around the globe, with fingers spread, suggesting a collective effort. The background is a bright blue sky with a few wispy white clouds.

**Let's get together  
and**

**Make the world  
in a better  
place**



charge ∠ channel ∠ change



**net one**

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Linkedin: <http://jp.linkedin.com/in/hirossy01/>

# Reference Link

- ❑ Dealing with Darwin / Geoffrey Moore
  - ❑ <http://www.dealingwithdarwin.com/>
- ❑ Innovator's Dilemma / Clayton Christensen
  - ❑ <http://www.claytonchristensen.com/books/the-innovators-dilemma/>
  - ❑ [http://en.wikipedia.org/wiki/Disruptive\\_innovation](http://en.wikipedia.org/wiki/Disruptive_innovation)
- ❑ Xseed Cloudrop Dev Summit SlideDeck(Japanese)  
Background and Architecture of Developing Cloudrop  
Speaker: Noriyuki Chiba, CTO, Xseed
  - ❑ <http://www.slideshare.net/devsumi/devsumi2013-15-d4>