

Rolling Slides

Taking the Nebulous out of the Cloud
Friday, May 6th, 11:00 AM-12:00 PM

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2011

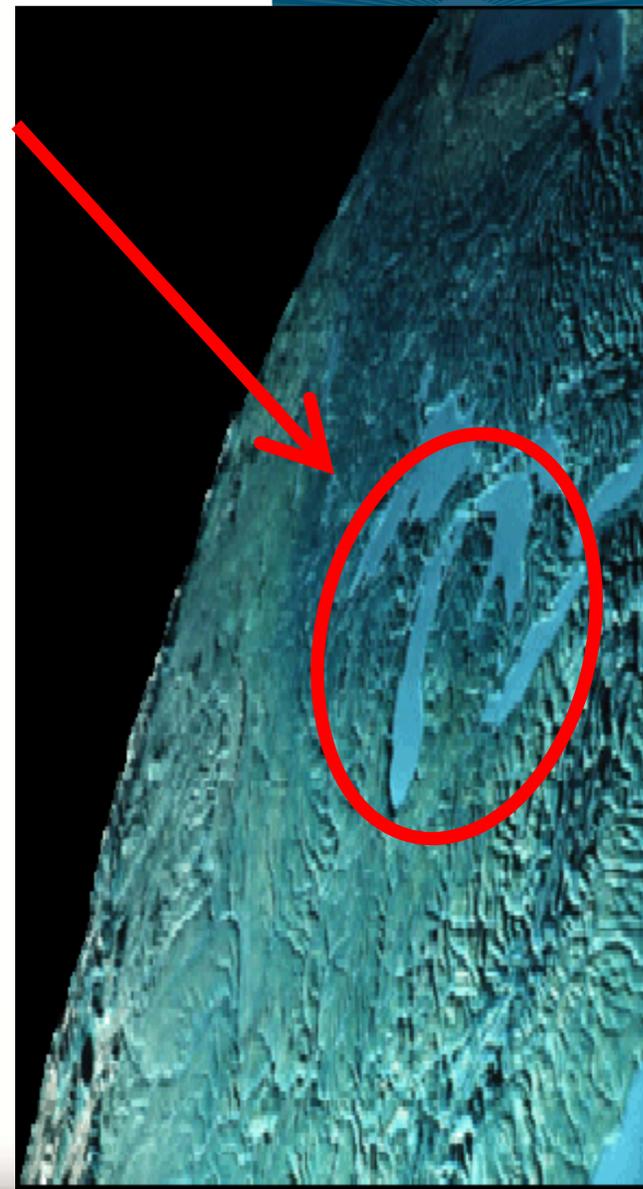
WHAT'S NEXT 4 GOVERNMENT?
NASCIO MIDYEAR CONFERENCE

This is Michigan

Our state government is known for **consolidated IT**

DTMB provides services for:

- 17 agencies
- 47,000 employees
- 3 data centers
- 800+ vital business applications
- Over 56,000 desktops
- Over 1,300 telecom locations



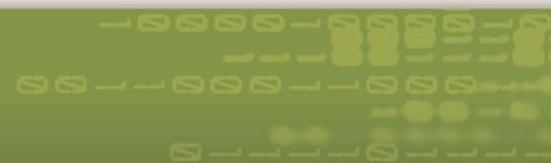
State of Michigan IT Services

DTMB delivers a range of options:

- ◆ Highly performant, highly redundant, highly available
- ◆ High value business at a high cost
- ◆ DTMB is **great** at this
- ◆ Options: Gold – Silver – Bronze

We needed to add Aluminum and Tin options

- ◆ The **good-enough** service options
- ◆ New tiers that are aligned with business value



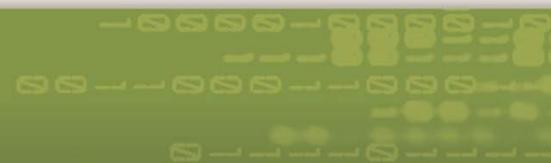
Why cloud computing?

- Automation: Human touches cost money
- Recruiting & retention:
 - Automate routine work
 - Focus staff on challenging, **satisfying** work
- Speed to deliver: cloud and non-cloud
 - Positive impact on **non-cloud** service delivery
- Simplicity: complexity kills
 - Complexity imposes risk and cost **on the entire enterprise**



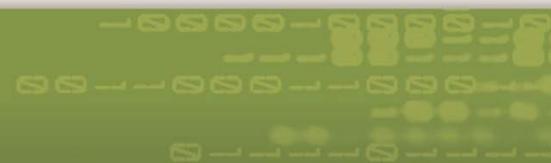
Why internal cloud first?

- Legal: Unconstitutional to indemnify a provider
 - Virtually all commercial cloud **Ts&Cs are DOA**
- Security: Internet threats removed
- Performance: Intranet speed, not internet
- Focus: Michigan business is paramount
- Market: DTMB matures as the market matures
- **Cost**: Making an external service compliant destroys the cost benefit



MiCloud Storage - Production

- On-demand **file storage service**
- Users submit an on-line request
- Users receive a new network file share within 10 minutes
- Optionally, users map as a drive
- Permissions managed with an on-line wizard
- Usage based billing at a daily rate



MiCloud Hosting - Production

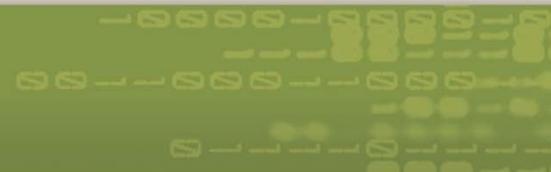
- On-demand **virtual server service**
- On-line request to create Dev/Test VMs
- New VMs are ready in 17 minutes
- Usage based billing at a daily rate
- On-line management requests
 - Restart, **Rebuild VMs**
 - Save images in an agency library, publish
 - Create VMs from golden or library images
 - **Deactivate** VMs when not in use to minimize cost



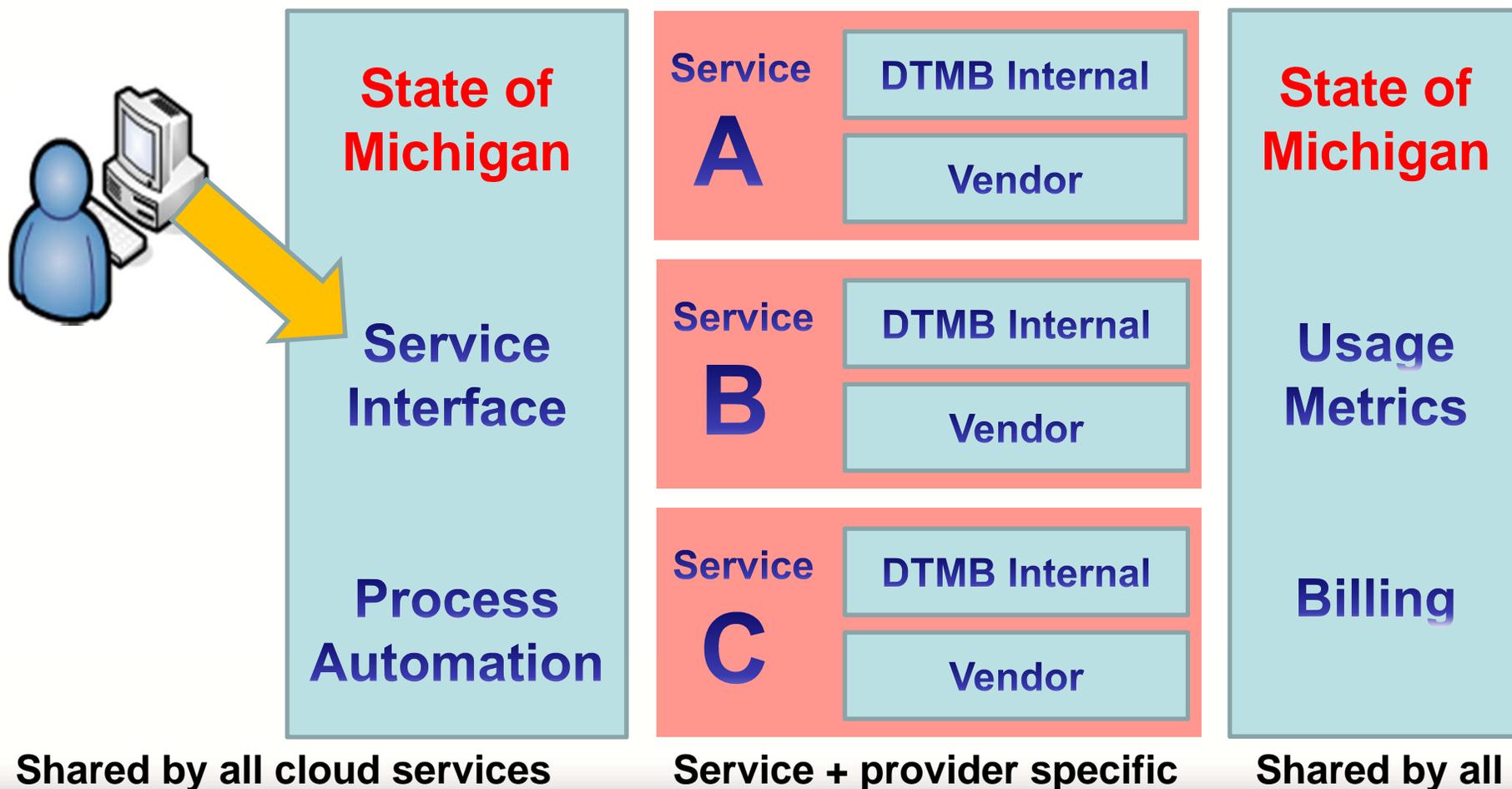
MiCloud Approach

To avoid vendor lock-in, DTMB must **own** the **service interface**

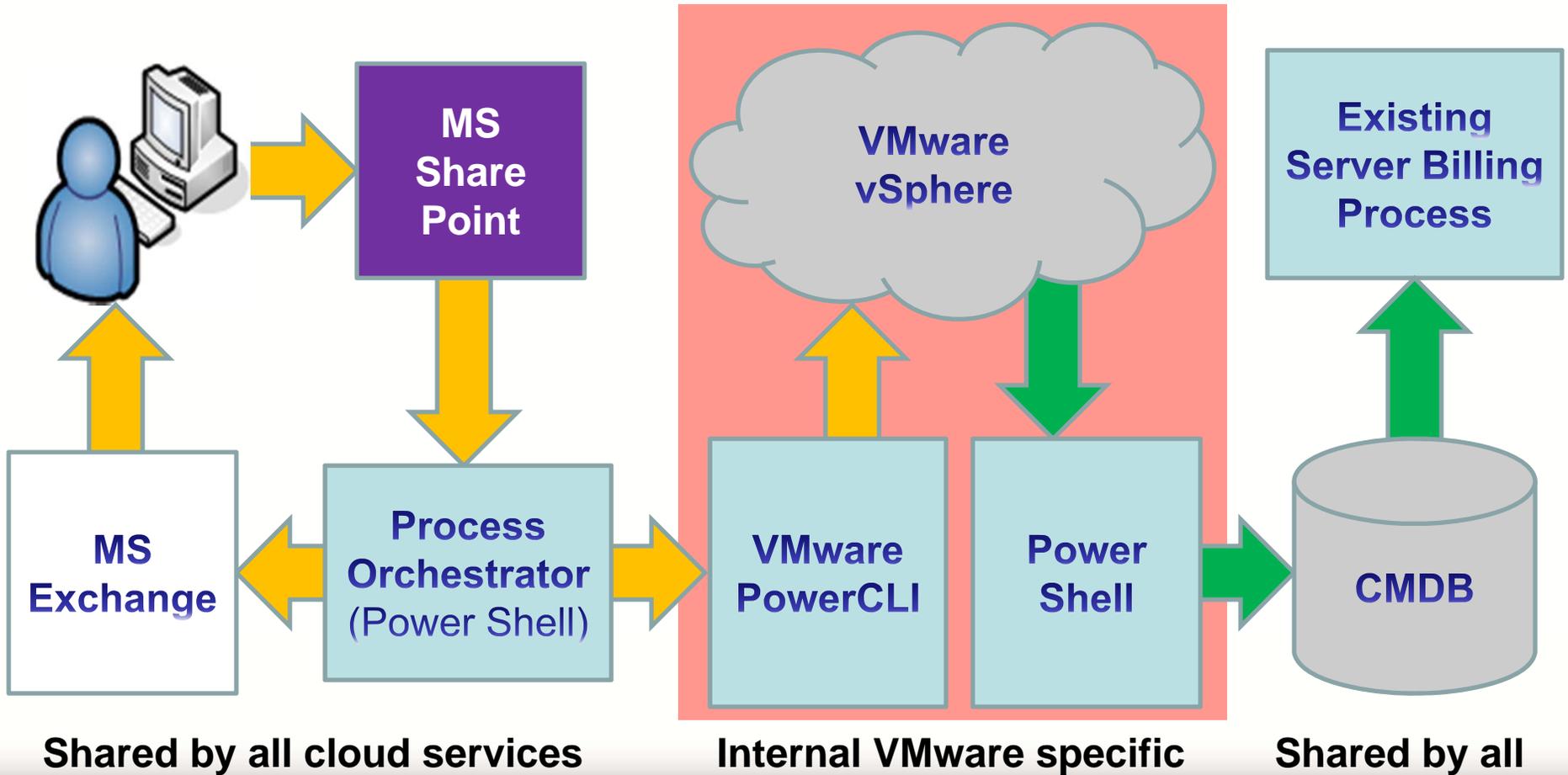
- Channel all consumer interaction through a single web application
- Limit options, tailor vocabulary
- Enable **transparent** provider swapping
- Centralize contract management
- Govern and secure a single touch-point



How does MiCloud work?



How does MiCloud Hosting work?



If it's cool, you're doing it wrong...

- People should be genuinely disappointed when they find out how it works
- There is no more effective form of analysis than giving it a try
- We are one disruptive innovation away from chucking the whole thing

