

# The OpenNebula piece in the RDIlab-UPC IT services Puzzle

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The logo for RDIlab, featuring the lowercase letters 'rdlab' in white on a blue background. A red diagonal line is positioned to the left of the 'r'.

RESEARCH  
RECERCA  
DEVELOPMENT



OpenNebulaConf 2016

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# WHO? / WHAT? / HOW?

*...Are You?*

*Who...*

*...Is your "business"?*

*...Are your numbers?*

*What?*

*...Do you manage your IT infrastructure?*

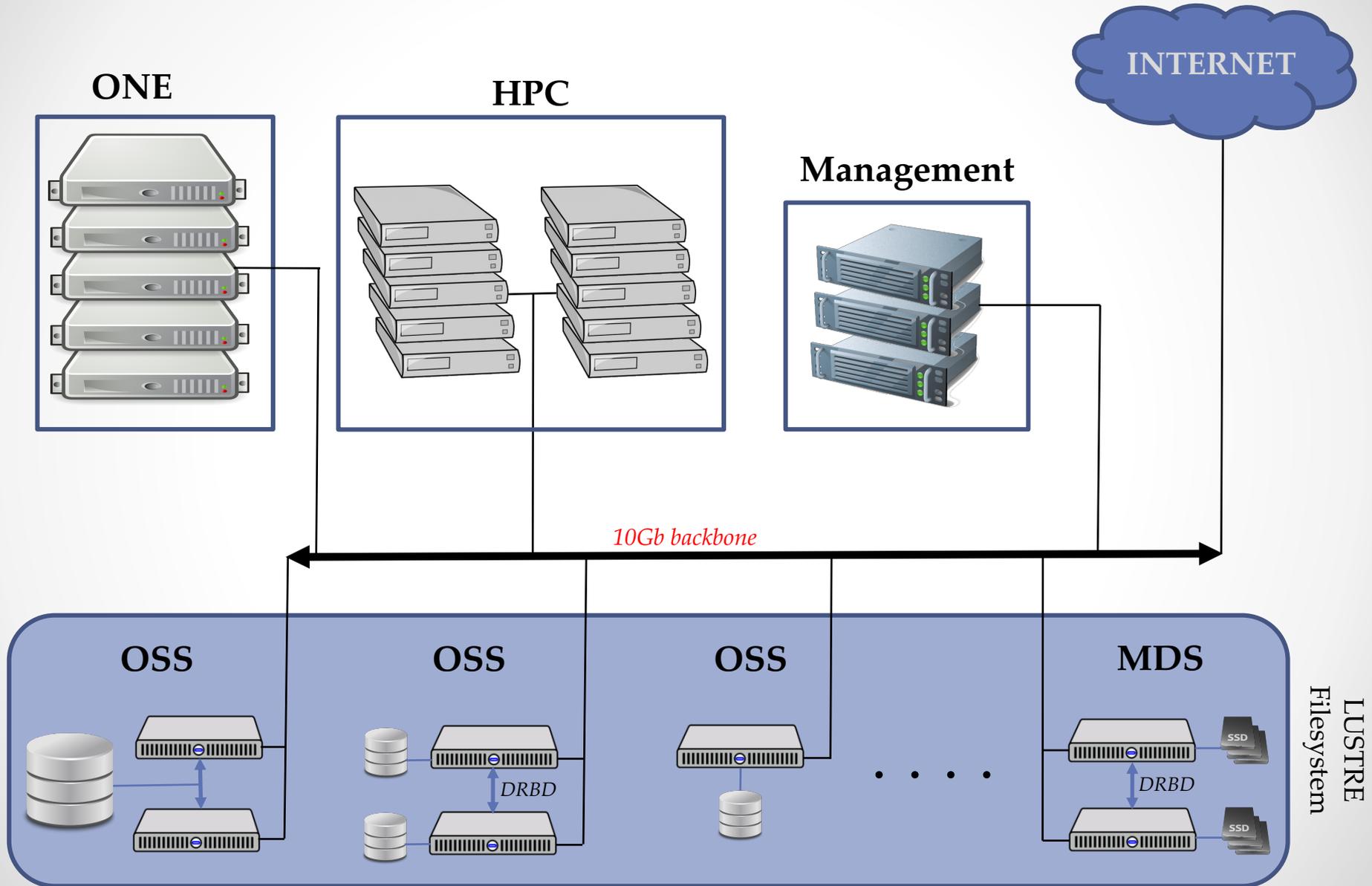
*How...*



...

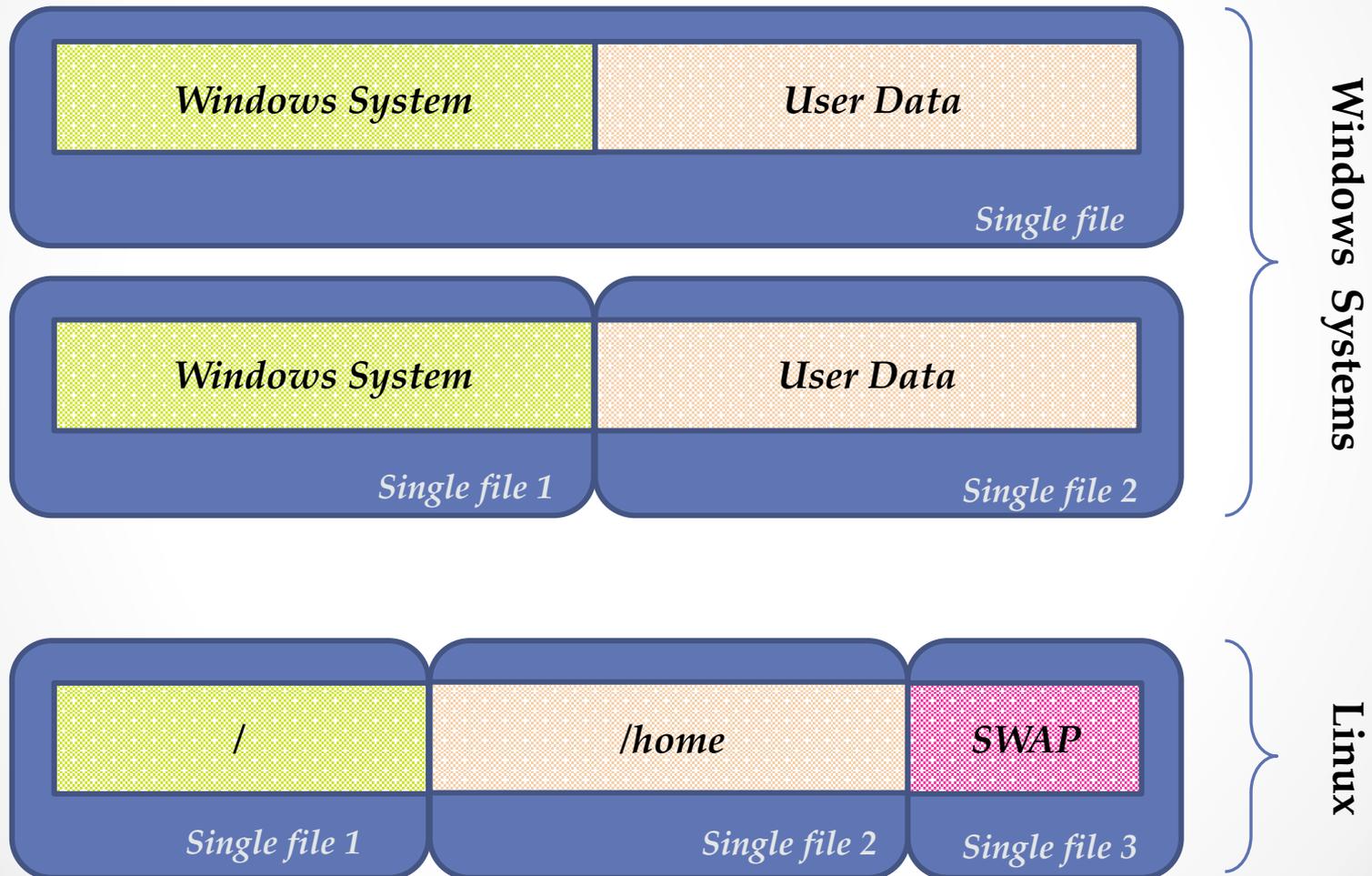


# RDlab IT SERVICES OVERVIEW



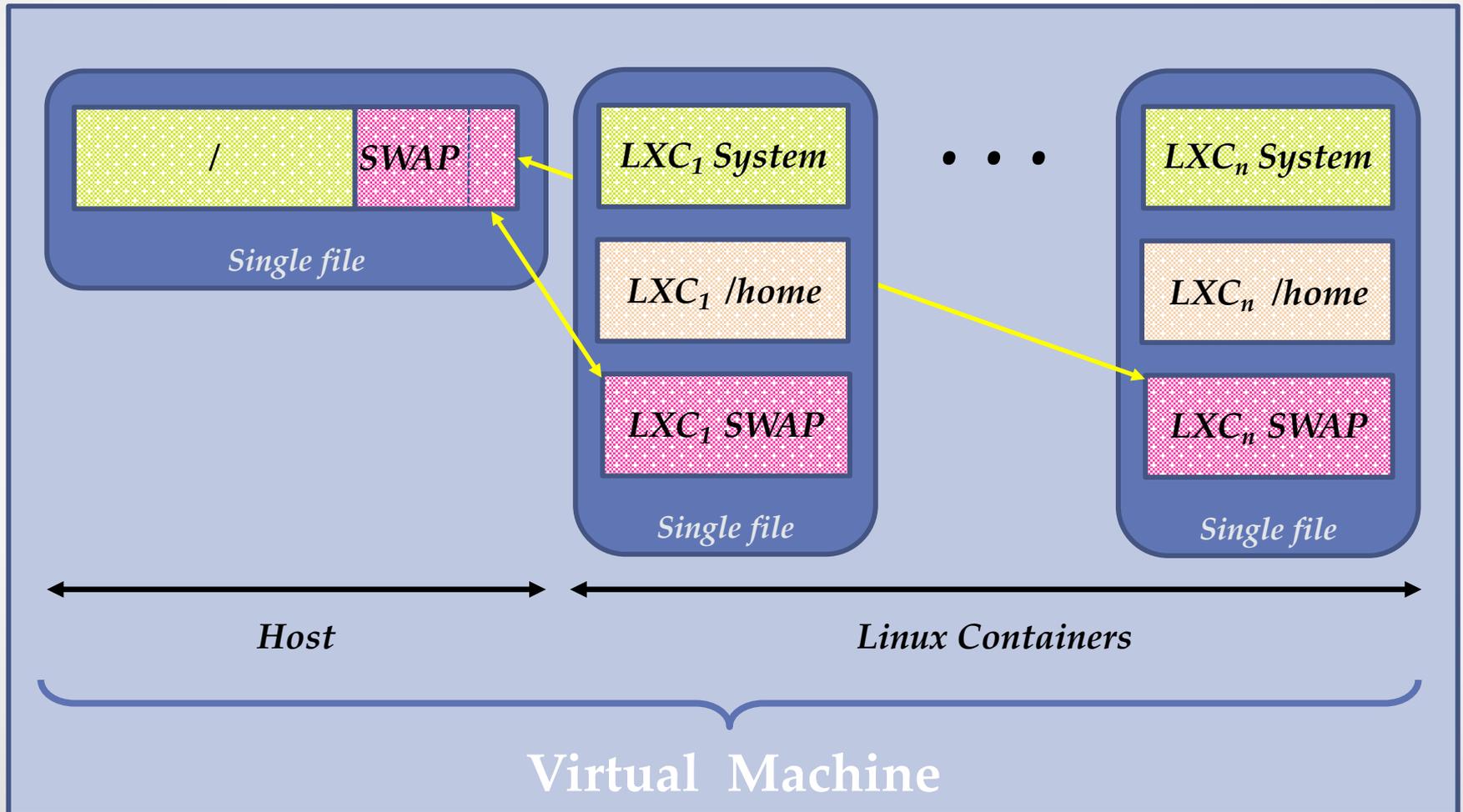
# OPENNEBULA

- Standalone Virtual machine

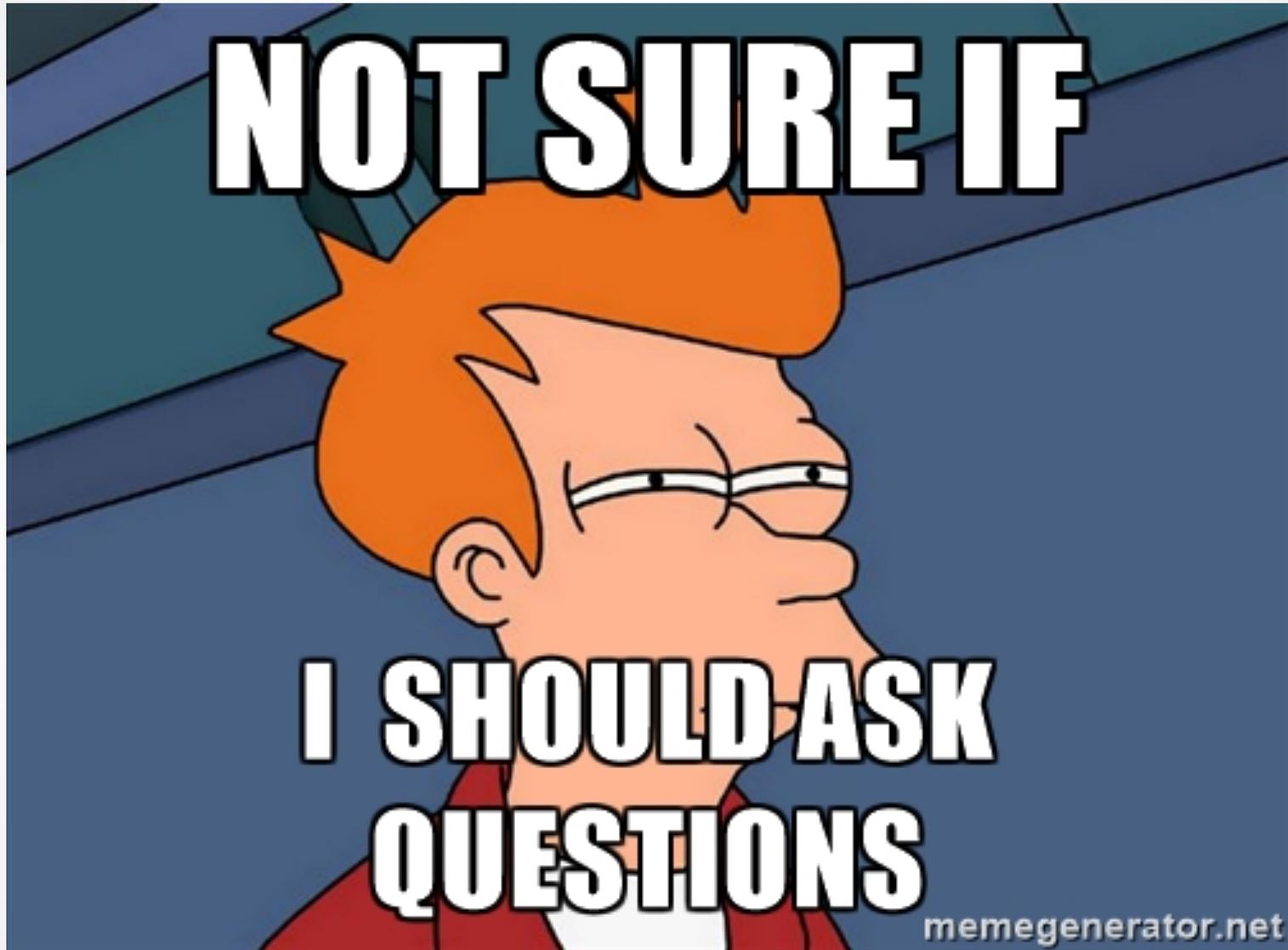


# OPENNEBULA II

- Shared Virtual machine (*Linux only*)



...



# OPENNEBULA BACKUP

- **Windows Systems**

- Full image clone monthly *(onevm disk-saves)*

- **Linux Systems**

- Full image clone monthly *(onevm disk-saves)*

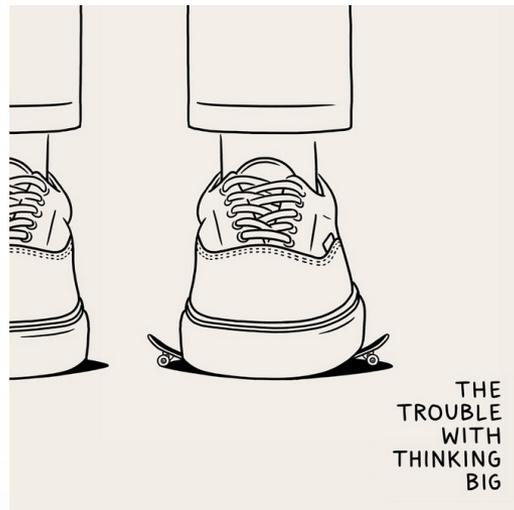
- Daily incremental backups *(tar file)*

- **3<sup>rd</sup> party backup software?**

# OPENNEBULA TRICKS

- **Lessons learned**

- Reserve some RAM in hosts
- CPU Performance: *Hyperthreading* but do not oversubscribe (~~vCPU~~)
- Disk Performance: VMDK/QCOW2 vs RAW
- Think before thinking big



# REFERENCES

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[www4] <http://www.deviantart.com>

[www5] <http://vector.me>

[www6] <http://www.freeiconspng.com>

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