



8C: Cloud User Stories

Adoption of Cloud in Spain

“TOWARDS THE CLOUDS TOGETHER”



RedIRIS (Spanish NREN)
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Spain - Cloud User Stories



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Spain - Cloud User Stories



**Instituto de
RadioAstronomía Milimétrica**

Granada - Spain



Pablo Mellado

Adoption: Users in Spain



- Two main focus (Madrid and Barcelona) but also distributed in many regions and spreading

Adoption: Users in Spain

| | INSTITUTION | | E/R | Pub/Priv | TECH |
|----|---------------------------------------|------------|-----|----------|-----------|
| 1 | Universidad de Santiago de Compostela | USC | E | Public | Azure |
| 2 | Fundación Privada Ramón Llul | FPX-URL | E | Private | Azure |
| 3 | Institución Educativa SEK | SEK-UCJC | E | Private | Azure |
| 4 | Universidad de Salamanca | USAL | E | Public | Azure |
| 5 | Universidad Pontificia de Comillas | UPCOMILLAS | E | Private | Azure |
| 6 | Universidad de Burgos | UBU | E | Public | Azure |
| 7 | Instituto de Empresa | IE | E | Private | Azure |
| 8 | ESADE | ESADE | E | Private | Azure |
| 9 | Universidad de Almería | UAL | E | Public | Azure |
| 10 | Universidad de Oviedo | UNIOVI | E | Public | Azure |
| 11 | Universidad San Pablo Ceu | FUSP-CEU | E | Private | Azure |
| 12 | IQS Ramón Llul | IQS-URL | E | Private | Azure |
| 13 | Universidad Católica de Ávila | UCAV | E | Private | Azure |
| 14 | Universidad de la Coruña | UDC | E | Public | Azure |
| 15 | Universidad Politécnica de Cartagena | UPCT | E | Public | Azure |
| 16 | Universidad Autónoma de Madrid | UAM | E | Public | Azure |
| 17 | Universidad Oberta de Catalunya | UOC | E | Private | Azure/AWS |
| 18 | Universidad de Mondragón | MU | E | Private | Azure |
| 19 | IESE | IESE | E | Private | Azure |
| 20 | Universidad Internacional de la Rioja | UNIR | E | Private | Azure |
| 21 | Universitat Rovira i Virgili | URV | E | Private | Azure |
| 22 | Universidad de Castilla-La Mancha | UCLM | E | Public | Azure |
| 23 | Universidad Politécnica de Madrid | UPM | E | Public | Azure/AWS |
| 24 | CESGA | CESGA | E | Public | Azure |
| 25 | Universidad Pompeu Fabra | UPF | E | Public | AWS |
| 26 | Universidad Alfonso X el Sabio | UAX | E | Private | Azure |
| 27 | Escuela de Organización Industrial | EOI | E | Public | AWS |
| 28 | IRAM | IRAM | R | Public | AWS |
| 29 | Sincrotrón ALBA | ALBA | R | Public | AWS |
| 30 | PIC (Port d'Informació Científica) | PIC | R | Public | AWS |
| 31 | CIBERONC | CIBERON | R | Public | Azure |

- Most in **Education** but **Research** institutions joining
- Most with **Azure** but **AWS** growing.
Current scenario: Education mainly Azure vs Research mainly AWS
- **A varied range of services** and uses: backup, disaster recovery, VLE, HPC, datasets, long-term storage, ADFS, SSO, web hosting, student labs, LMS, BI, Virtual campus, development environments, ...
- UCLM: First **Azure ExpressRoute** implementation via RedIRIS-GÉANT
- UOC/UJI/IRAM: **AWS Direct Connect** quite soon via RedIRIS

Building a community on Cloud services (1/2)

Cloud services mini-site



mailing list (140+ subscribers)

IRIS-CLOUD@LISTSERV.REDIRIS.ES

Mensajes mas recientes

RV: [TECNIRIS] Barcelona
OpenNebula Cloud
Techday - 8 de Mayo
[Containers 2.0 and
beyond (LXD, RANCHER,
KUBERNETES,
UNIKERNELS,...)]

Jordi Guijarro <jordi.guijarro@CSUC.CAT>

(Cont.) AWS workshop -
14 Mayo, RedIRIS, Madrid
(plazas limitadas)

Antonio Saravia González <Antonio.Saravia@RED.ES>

AWS workshop - 14 Mayo,
RedIRIS, Madrid (plazas
limitadas)

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Building a community on Cloud services (2/2)

Cloud session in RedIRIS annual conference based on Use Cases

Sala P (Paraninfo)
Sesi3n G2P: Cloud

- **Novedades y proyecto OCRE** 📺 (32.67 MB)
Antonio Saravia, RedIRIS
- **Casos de uso de la Comunidad: PIC** 📺 (0.43 MB)
Jordi Casals, Vanessa Acin y Fernando L3pez (Port d'Informaci3 Científica, PIC)
- **Casos de uso de la Comunidad: UOC** 📺 (0.79 MB)
David Ayala y David Recuenco (Universitat Oberta de Catalunya, UOC)



Novedades y proyecto OCRE

Sesi3n G2P: Cloud

📺 Video | Spanish (16' 36'') | Visto: 13 veces
Antonio Saravia - RedIRIS



Casos de uso de la Comunidad: PIC

Sesi3n G2P: Cloud

📺 Video | Spanish (18' 36'') | Visto: 14 veces
Jordi Casals, Vanessa Acin y Fernando L3pez - Port d'Informaci3 Científica (PIC)



Casos de uso de la Comunidad: UOC

Sesi3n G2P: Cloud

📺 Video | Spanish (43' 08'') | Visto: 77 veces
David Ayala y David Recuenco - Universitat Oberta de Catalunya (UOC)

Specific Training



AWS workshop - May 2019

- Cloud generates **a lot of interest**
- 150+ attendees + another 100 via streaming
- All presentations and recordings available
- Telling actual **use cases** (motivation, goals, strategy, barriers, issues, ...) is highly appreciated

Cloud Integration Journeys (1/2)

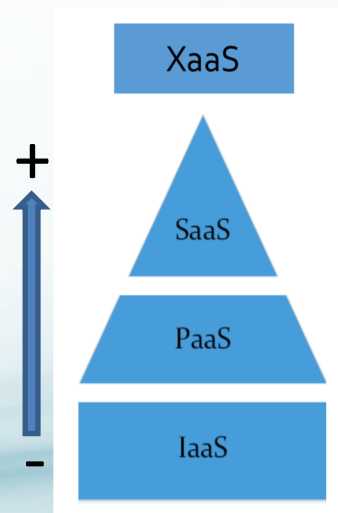
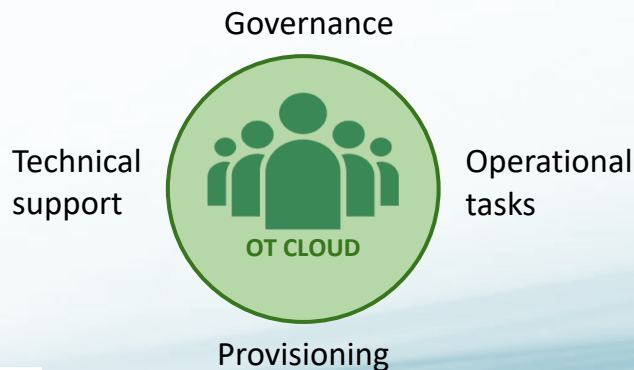
- Institutions see the value of the cloud and the advantages of IaaS Framework
BUT
- Public institutions: **procurement and legal** teams need to be convinced that the IaaS Framework can be used without tendering. It's an important issue in Spain.
- Fear of uncontrolled and **uncertain costs** (how to do it to prevent from bad surprises)
- **Lack of a clear roadmap** to the cloud and **insufficient knowledge** of how to design it and implement it

IT HELPS

- **Highly valuable to have good use cases** and a few advanced institutions leading by example

Cloud Integration Journeys (2/2)

- Institutions moving forward slowly by defining first uses cases and pilot projects
→ looking for good examples
- Hybrid cloud models in mind
- Initially with one cloud provider but open to multivendor
- Some advanced institutions moving to
 - a “Cloud First” Strategy (SaaS first and managed services)
 - a private connection to cloud providers
 - a Cloud Office approach



2019: some challenges and next steps

- Encouraging cloud adoption in Research centers and Public institutions
- Keep promoting cloud Training (from GÉANT, vendors, consultants, ...)
- Keep developing the cloud community
- Working at legal and administrative level to be able to offer centralized procurement (demand aggregation) and billing services in a pay-per-use model
- OCRE:
 - initially with a referrer rol (0% cost recovery)
 - Being an active agent to engage the Spanish R&E Community
 - Local resources: minimum team but highly motivated and believer

Transit to Cloud is no longer an option. It has become a MUST and we have to work all together to make this happen.



“TOWARDS THE CLOUDS TOGETHER AND BEYOND ...”

That's all folks 😊



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