Public clouds and official Debian image status

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Background

- Debian: the universal operating system
- Public clouds - quirky environment!

Lucas Nussbaum, DPL, on debian-cloud:

```
"Now, 'official Debian image'. I don't think
that for [public clouds], "official" has
been explicitly defined."
```

Really? This is a bug. We should fix this!

Goal

of·fi·cial, *adj.*

What does this mean for Debian images?

- What does Debian need here?
- What do public clouds need here?

More similar than you think!

But differences exist. Let's bridge the gap.

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[...insert a lovely discussion here...]

- Establish Debian's official image criteria

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[...insert a lovely discussion here...]

- Establish Debian's official image criteria*

* *Or make a bit of progress.*

Official images: "Debian"?

An official Debian image should...

Respect Debian's Social Contract.

- Comply with the DFSG
- Focus on users' needs

Official images: "Debian"?

An official Debian image should...

Use Debian as its trust anchor.

- Packages and repositories
- Image builds and discovery
- Security fixes and updates

Official images: "Debian"?

An official Debian image should...

Be developed within Debian

- Build tool maintenance
- Debian lists, IRC, etc
- Where should code live?

Official images: "Debian"?

An official Debian image should...

Be supportable by Debian

- IRC: #debian
- Email: Mailing lists
- Quality assurance, testing
- Wiki, BTS, etc

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* This is a big gap! We need to be able to QA cloud images!

Official images: Public clouds

Cloud vendors have the same concerns!

- Licensing and legality
- User needs
- Trust anchor
- Development workflow
- Supportability, QA, testing

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But wait, there's more ...

Official images: Public clouds

Unique concerns in the public cloud context
Clouds don't release every 2 years

● Quick fixes needed: performance, security
  ○ Paying customers complain to cloud vendor
  ○ Upstream fix can take time
  ○ *Google examples: irqbalance, kernel vulnerabilities*

Official images: Public clouds

Unique concerns in the public cloud context
Clouds don't release every 2 years

- Customers expect smooth integration
  - OS changes required for integration

- Google examples:
  - API improvements every couple months
  - Account and SSH key management
  - Networking support

Official public cloud Debian images

What we all need:
- Debian's criteria
- QA / testing of cloud images
- Cloud integration
- Cloud agility

Standards are needed for each.

Official public cloud Debian images

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- ○ Debian's criteria
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cloud-init is a start here, but we need MORE!

Official public cloud Debian images

What we all need:
- Debian's criteria
- QA / testing of cloud images
- Cloud integration
- Cloud agility

Standards are needed for each. *Let's discuss!*

To continue later:

web https://wiki.debian.org/Teams/DPL/OfficialImages

email debian-cloud@lists.debian.org