# How to get the real infra needs for CNFs
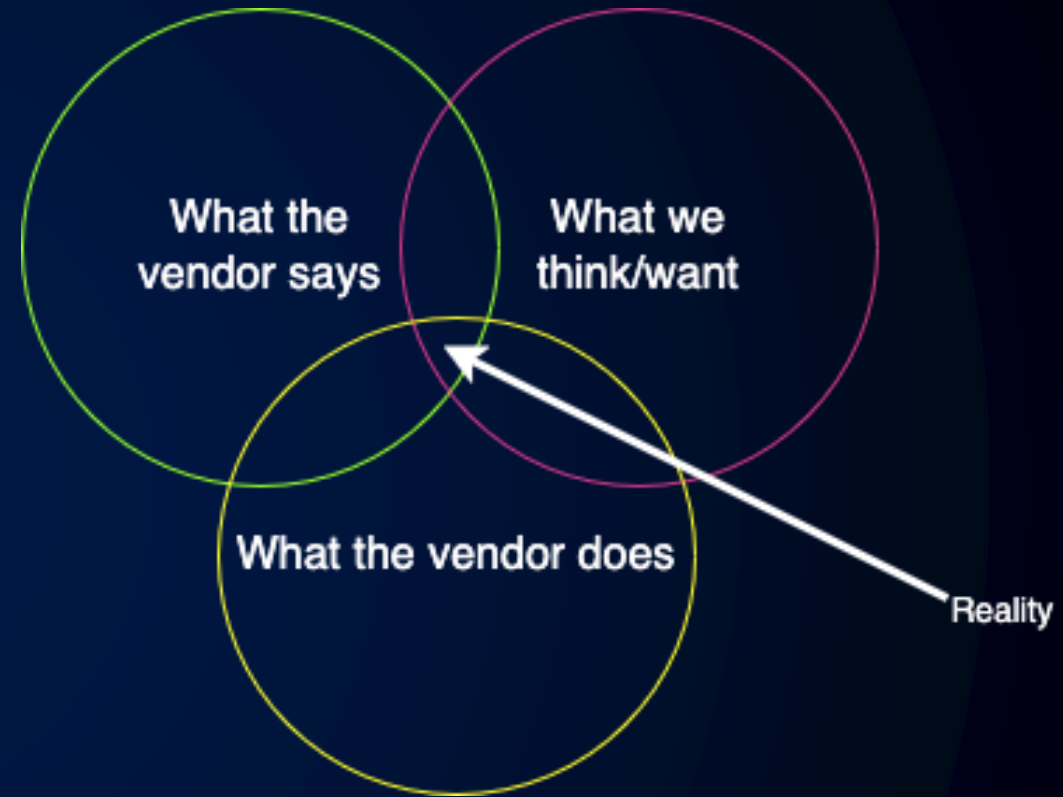
What the vendor says

What we think/want

What the vendor does

Reality

# First considerations

**Software delivery**

- Not ideal
  - Manual delivery (VM)
  - No portal to download
  - Sometimes patches just "for us"
  - Vendor differences

**Documentation**

- Generic, lacks many details we end up needing to know
- Sometimes provided via poor documents (low quality)

**Conclusion**

- Huge improvements expected here
- Standarisation will be helpful
  - Prevent vendor diffs
  - Ensure quality

# Example mismatches documentation/real world

**BIOS settings**

- Maximum performance required
  - How to save on energy?

**Kernel parameters**

- Tweaks needed not included in the docs/not expected

**OS configs**

- For troubleshooting (coredumps)
  - The application modified the vendor desired config, overwriting it

**Other node configs**

- Labels/taints... that prevent efficiency and increase costs
  - Vendors not using k8s fully (priorityClasses?)
- Kernel modules

# How are we trying to tackle this (1)

## 1st round

- RfQ process
  - We raise desires/what we want
  - We raise requirements and we get requirements from the vendor
- Documentation generated out of it

## (Optional)

- For some products we also have several sessions tackling the vendor requirements, if needed (because of security concerns, etc.)

## 2nd round

- Before actually onboarding the NF, we ask for many low-level inputs (excel)
  - Network connectivity
  - Storage requirements
  - Compute
  - ….

| | | | Juice_group | Cloud | |
|---|---|---|---|---|---|
| Underlay Static Routes | | | | | |
| Underlay Static Routes | | Field Name | Juice_group | Cloud | |
| Underlay Static Routes | | Type of input | | | |
| Underlay Static Routes | | example line | | | |
| Underlay Static Routes | | | | | |
| Underlay Static Routes | | Explanation&description of field | this is a logical grouping of cloud resources for a | the name of the cloud where this | |

**Push the vendor (mainly\*)**

**\*Also build internal knowledge to compensate poor docs (with trial+error+experience)**



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# What an ideal state would be

- Uniformity across vendors
  - **Including** different products/teams from a vendor
- Registry we can access for pulling on-demand
- Proper documentation
  - Needed configurations OS-wise
  - Needed configurations k8s-wise
  - Needed configurations networking-wise

# Thank you