

# SARDINA



## Sardina FishOS

Cloud Platform for: Public Clouds | Private Clouds | Hosted/Managed Private Clouds  
OpenStack | Kubernetes | Ceph

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FishOS® by Sardina Systems. Fully automated cloud solutions for enterprises based on OpenStack, Kubernetes, and Ceph.



# SARDINA

## Smart Cloud Platform

- OpenStack + Kubernetes + Ceph
- Zero Downtime Operation Assurance — industry-first
- Data Centers to the Edge

## Award Winning

- DCD Global Award
  - IDC HPC Innovation Award
  - DCS Award
  - EU H2020 winner
  - UK Data 50 Award
- and more

## European Innovation

- European cloud platform ISV with presence in the UK, Germany and the Netherlands
- Open Infrastructure Foundation Corporate Sponsor

## Young, Innovative

- Founded in 2014
- Day-1 Team: supercomputing, finance, defense, telco
- Today: 40 people, PhDs

## Partners



# SARDINA

## Product

- Foundational layer to manage and operate data centers and cloud infrastructure
- Core: cloud platform built on OpenStack, Kubernetes, Ceph

## Product

- “Bread-factory” business model: Customers build on Sardina’s engineering
- Competitive further product advancement

## Product

- Offering: Software-only, or Integrated Solution (pre-integrated with hardware)
- No consultancy required
- Pay for software license only

## Proven

- VMAccel (AI, US): **50k cores**
- de.NBI (biotech, DE): **50k cores, xPB storage**
- German Human Genome Archive: **xPB storage**
- CyberValley (AI, DE): **20k cores**

## Product

- Efficiently manage cloud infrastructure: AI, General Compute, Storage
- Productized for data centers, clouds: quick to production

## Proven

- GRASS-MERKUR (AI/insurance, DE): **5 out of 6** Hannover **insurance** firms,
- Datacomm (government, ID): **4 data centers** in Jakarta
- Major data centers (DE, ID, IS)

# SARDINA

## Efficiency & Reliability

- Award-winning: Up to **80% energy savings** on VMs and Kubernetes workloads
- High uptime with ML-powered Health Manager

## Competitive Business Model

- No charge for advice
- Option for revenue-based model: We grow with you
- Find a better deal elsewhere? We will better it!

## Time is Money: Rapid time to Production

- Software-only case: **2 weeks** from zero to Production
- Integrated Solution case: system comes pre-deployed

## Validated on Latest Generation Technology

- Intel: Gaudi, FPGA, CPUs (incl 8xxx)
- NVIDIA: GPUs, DPUs (incl BlueField3)
- AMD GPUs, CPUs (incl 9xxx)

## Competitive Business Model

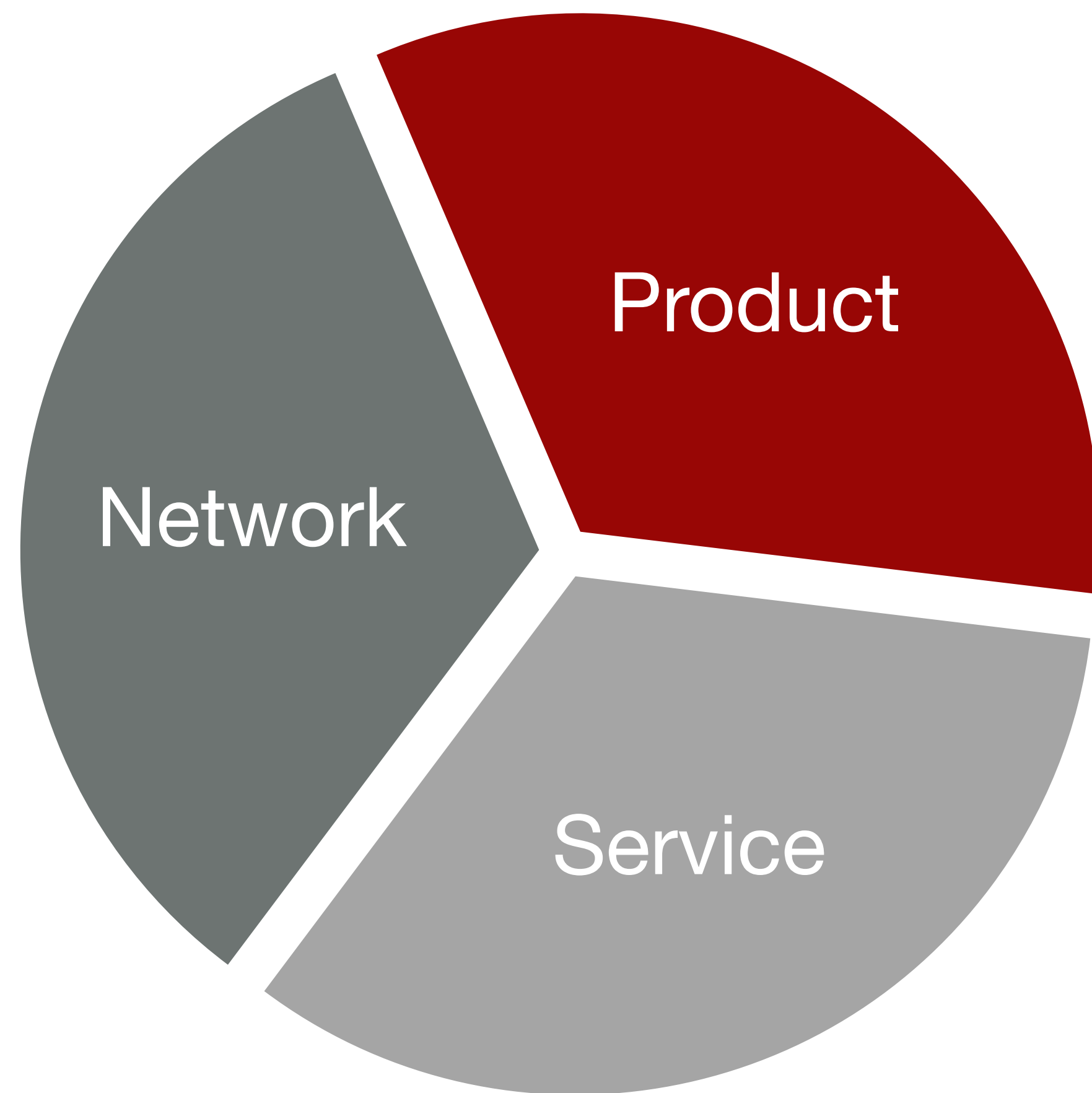
- Highly competitive price, per core per year, flexible payment frequency options
- No charge for GPUs
- No charge for disks quantities and types

## Comprehensive Support

- 9x5 or 24x7 support
- Unlimited tickets
- Remote Hands-on
- Global Operational Services partner network

## What does Sardina offer?

# FishOS: The offering



## FishOS as a Product

- Cloud management software
- OpenStack native components and components developed by Sardina team
- Pre-integrated solutions Kubernetes and Ceph, but with free choice of other relevant technology according to the customer request

## FishOS as a Service

- "White glove" onboarding to the system till the confidence of up and running system
- 24x7 support of troubleshooting and assistance
- Review customer's needs and implementation of the customer's requirements

## FishOS as a Networking

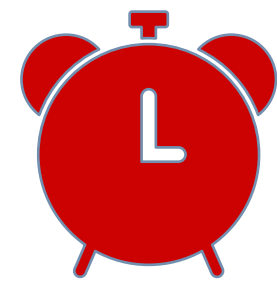
- Strong and fair partnership



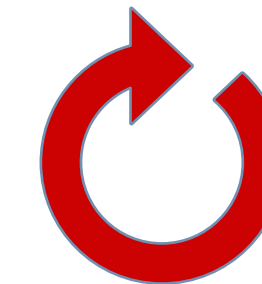
# FishOS: Unique benefits



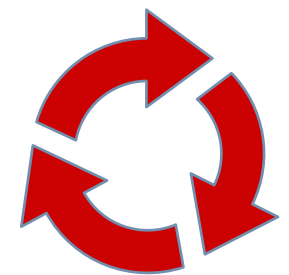
Rapid time go-to-market



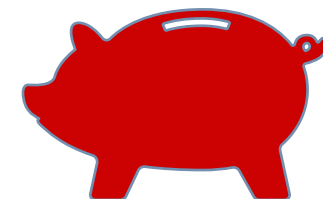
Rapidly deployment  
process



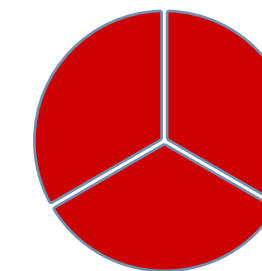
Regular solution upgrade  
and product oriented policy



Ensured continuity  
in service delivery



Unmatched reduction  
in TCO



The whole solution without  
piecemeal licensing



Low knowledge barrier

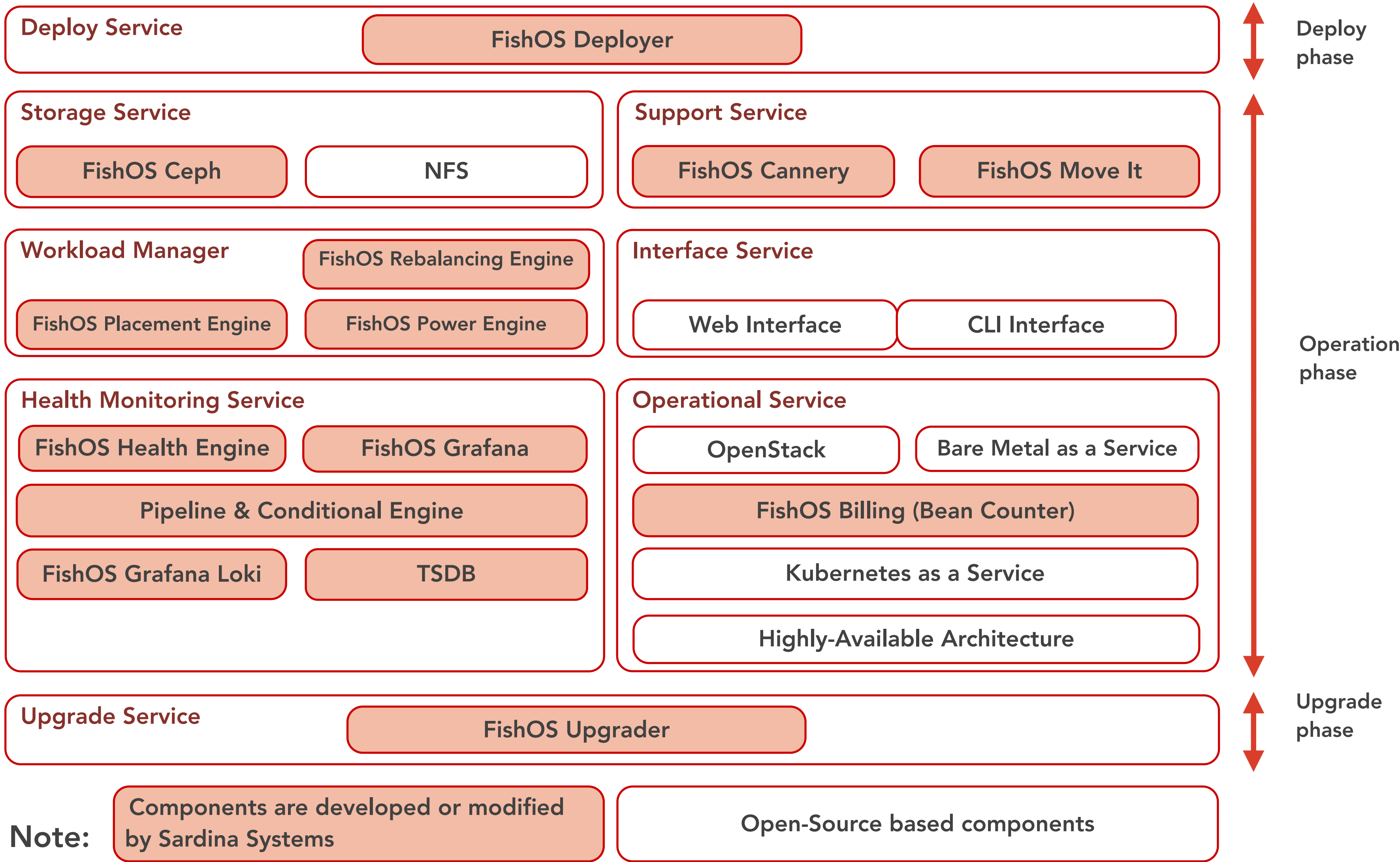


Zero-downtime operations



No hidden additional  
payments

# FishOS: Solution structure

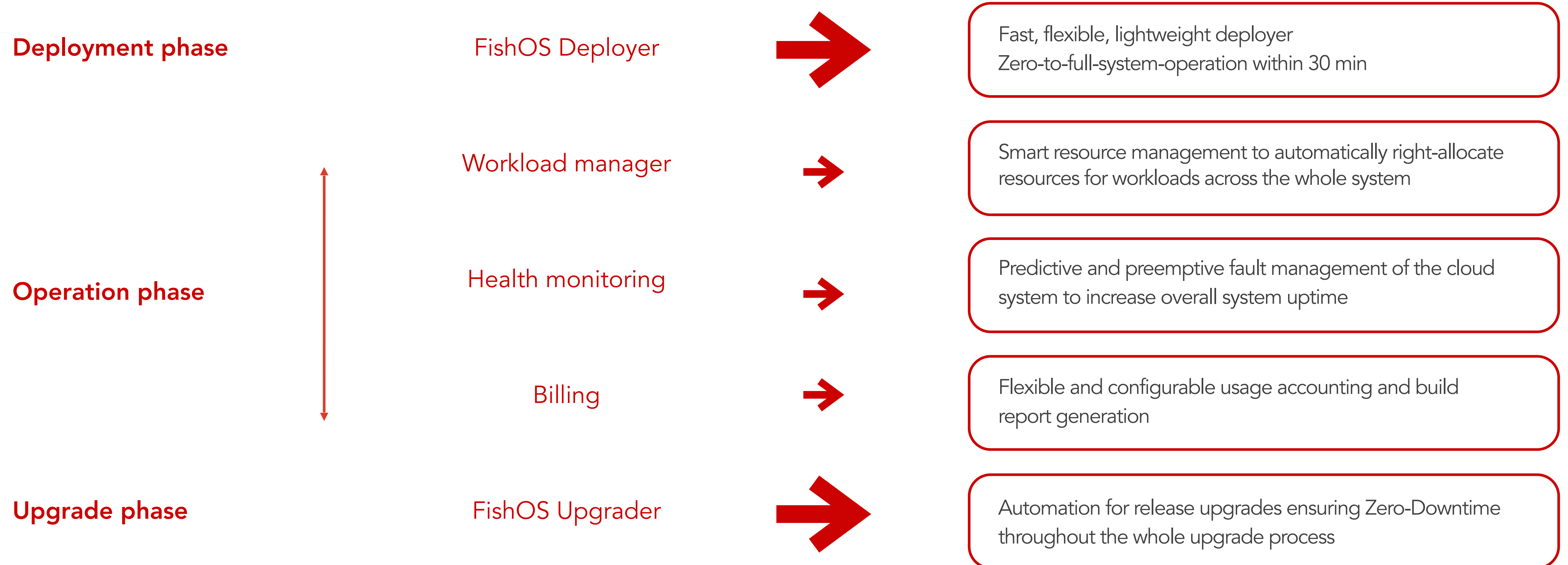


Every cloud infrastructure lifecycle goes through 3 phases, which are: deployment, operation and upgrade.

FishOS as a product is an OpenStack, Kubernetes, and Ceph based infrastructure with the set of supporting tools, that addresses all three lifecycle phases.



# FishOS: Unique features



# FishOS: Comprehensive Services

## Pre-deployment process

- Analysis of current customer system via ERD
- Customer access to the support system
- Remote access to the customer system
- Advising for installed base operational system

## After-deployment process

- Daily/weekly call with customer team during onboarding
- Troubleshooting
- Customer feedback process
- Upgrade after each new OpenStack release

## Hardware advising & Integrated Solution solution

- Advising in relation to recommended hardware specification based on existing hardware or involvement partner hardware vendors for purchase
- Integrated solution: full package of service covering supplying deployment software with preferable hardware

# FishOS: Comprehensive Support

- "White-glove" onboarding to the system
- Simple access to the Service Desk to engage FishOS engineers with mail notifications
- Unlimited ticket support regardless to Support level
- Possibility to provide 24x7 support
- Uniform language for support, troubleshooting and communications
- Direct communication with technical team, including senior persons

The 'Create Task' form is a web interface for creating a new task. It includes the following fields and controls:

- Title:** A text input field with a 'Required' label.
- Assigned To:** A dropdown menu with the placeholder text 'Type a username...' and a search icon.
- Status:** A dropdown menu with 'Open' selected.
- Priority:** A dropdown menu with 'Needs Triage' selected.
- Description:** A rich text editor with a toolbar containing bold, italic, underline, link, unlink, list, code, quote, table, image, and emoji icons.
- Visible To:** A dropdown menu with 'Space S1: Default Space' selected and a 'Custom Policy' button.
- Editable By:** A dropdown menu with 'Custom Policy' selected.
- Tags:** A text input field with the placeholder text 'Type a project name...' and a search icon.
- Subscribers:** A text input field with the placeholder text 'Type a user, project, package, or mailing list name...' and a search icon.
- Buttons:** 'Cancel' and 'Create New Task' buttons at the bottom right.
- Configure Form:** A gear icon and a dropdown arrow in the top right corner.

The screenshot shows a task notification email from FishOS. The header includes the user's profile (NK, Nataliia Kobzarenko), the subject line '[Maniphest] [Created] Test ticket', and the recipient 'To: Tasha Kobzarenko'. The body of the email contains the following information:

- nkobzarenko created this task.** A button labeled 'View Task' is located to the right of this line.
- TASK DESCRIPTION**  
This ticket was created as a test one for marketing brochure
- TASK DETAIL**  
<https://support.sardinasystems.com/>
- EMAIL PREFERENCES**  
<https://support.sardinasystems.com/settings/panel/emailpreferences/>



# Why build cloud with FishOS

- **Sovereignty and data security:** defined by the customer location, specified roles and access to the system, only authorized access, certification of the protection level
- **Process automation and monitoring:** wide range of operation tools for easy configuration, health check of the system; predictive analytics
- **Cost efficiency:** clear pricing policy based on physical cores, cost forecasting in case of budget limitation
- **Comprehensive support:** unlimited amount of tickets and rapid reaction on issues regardless to support level

# Why build cloud with FishOS

- **Effortless and highly scalable:** 2 weeks to launch, clear migration without data and workload loss, simply scalable system and business model
- **No interruption:** zero downtime upgrade process, built for high-availability to deal with wide range of loads and failures
- **System management:** detailed monitoring, fast scanning of the system status, checkpointing, load balancing, redundancy
- **System comprehension:** white-glove onboarding, customer-oriented product configuration, direct communication with all-range technical team, round-the-clock troubleshooting

# Is there something that we missed?

We will work collaboratively with you



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Hyper-Efficient, Scalable, Reliable, Optimized Cloud

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