

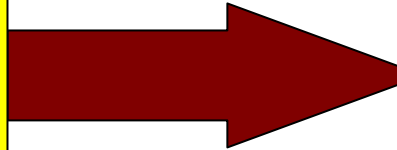
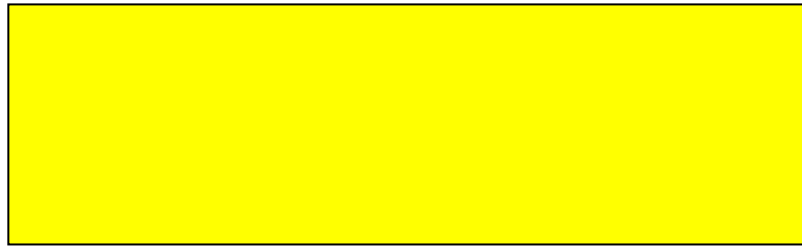
# OpenFabrics and Mainstream Enterprise Adoption



OPEN**FABRICS**  
A L L I A N C E

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# OpenFabric Enterprise Distribution



**Best told  
with a  
parable**

- How do I use it today?
- What does it contain?
- How is it supported?
- Who can use it? Will it meet my requirements?
- What are the future plans?

# The Parable of the Great House



# The Sun and the Moon

- “Why must they contend? We must make them stop fighting and live in peace.”
- “This is their nature. . . If they stop fighting, they would no longer live. Instead, we must help them by recognizing each of their strengths and how they can serve us.”



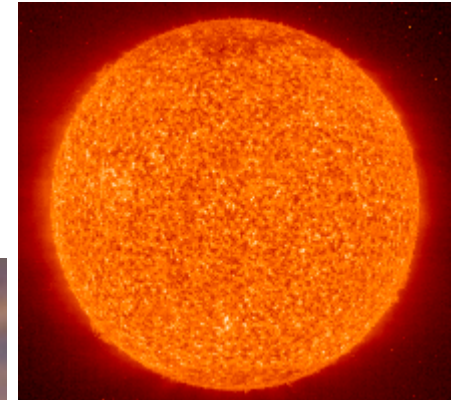
# The Snake

- “I shake my rattle to frighten my enemies and show my power over the depths of the earth.”



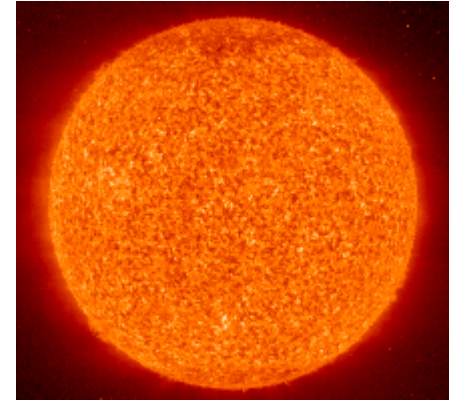
# The Lion

- “I show my teeth to frighten my enemies and show my power over the forests of the earth.”
- “I must show my people I protect their needs.



# The Eagle

- “I show my great wings to frighten my enemies and show my power over the skies of the earth. I must show my people I will meet their needs.”



# The Unifying Challenge

- “You must build a house for my sister, the Moon, and I will furnish it and service it. . . .The windows must be built from the finest sapphires and diamonds. The walls and corridors must be made of the finest woods.”
- “Build me a house where I can use the same tools and servant I use today, only grander.”





# The Symbols and Meanings

- The Sun and the Moon = Customers
- The Animal Princes = Commercial systems companies
- The Caves They Live in = The untapped market for next-generation fabrics
- The House = Large future market potential
- The New Language = OFED



## What is it? Why does it exist?

- Single commercial-quality distribution of OpenFabrics.
- Not just interoperability testing; all vendors support single stack.
- Commercial vendors coordinate engineering development, testing, and bug fixes.
- Accelerates ecosystem adoption of RDMA protocols.

# OpenFabrics Enterprise Release v1.0



- How do I use it today?
  - Available as OFED Release 1.0, eventually in RHEL4 and SLES10.
- What does it contain?
  - Commercial quality and “technology preview” components
- How will it be supported?
  - Via commercial vendor support and community.
- Who can use it? Will it meet my requirements?
  - Depends on protocols you require for production use.
- What are the future plans?
  - Single code stack that works across multiple fabrics.

# Enterprise Requirements



- On top of performance... Must have proven, tested stability and resiliency at scale with real applications.
- Full fault tolerance and high availability
  - Application Protocols: Resiliency across cable pulls, HCA failures, switch failures
  - Storage: Multipathing and enterprise-class storage arrays.
  - Subnet Manager: Full fault tolerance without any service interrupts
- End-to-end testing certifications
  - Explicitly list supported servers, platforms, kernels, applications.
- Centralized systems management (upgrades, rollbacks, audits, diagnostics, etc.)
- Full enterprise security (device and system level)

Thank you!



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