OpenZFS

State of the Project

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Matt Ahrens

OpenZFS

Thank you **Karyn Ritter**!
Project Management

Thank you **Victoria Faveau**!
Event Management

Thank you **Pavel Zakharov** & **Paul Dagnelie**!
Speaker-herders

Thank you **Aaron Holding**!
Graphic design

Thank you **Prakash Surya** & **Ali Oriqat**!
Tech/IT help

Thank you Diamond 💎 Sponsors!

DΞLPHIX

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Thank you Pandemic Sponsors!

OpenZFS

OpenZFS 2.0, for Linux and FreeBSD

Coming in 2020, still!
(2.0rc3 is out now)

New features in OpenZFS 2.0 (since ZoL 0.8)

- FreeBSD support!
- Performance enhancements
  - Fast clone deletion (OZDS 2017)
  - Log Spacemap (OZDS 2017)
  - Metaslab performance (OZDS 2019)
  - **Some send/receive performance (OZDS 2020)**
- Redacted send/receive (OZDS 2015)
- zpool wait
- **Persistent L2ARC (OZDS 2020)**
- **Sequential resilvering (OZDS 2020)**
- ZSTD compression
- Sectional zfs/zpool manpages (one per subcommand) (OZDS 2019 hackathon)

- Goal: ~yearly major releases of OpenZFS (3.0, 4.0, 5.0, etc)
- Jorgen Lundman is working on adding OSX support

OpenZFS for Linux & FreeBSD & OSX

- OpenZFS Code of Conduct
  - https://openzfs.org/wiki/Code_of_Conduct
- Conduct Problems?
  - conduct@openzfs.org
    - matt@mahrens.org
    - karyn.ritter@delphix.com
- Technical Problems?
  - prakash.surya@delphix.com
- Email or find us on the OpenZFS slack

Schedule on openzfs.org

OpenZFS

Time	Title	Speaker	Company
9:00 - 9:20	State of OpenZFS	Matt Ahrens	Delphix
9:20 - 9:40	ZFS Caching: How Big Is the ARC?	George Wilson	Delphix
9:40 - 10:00	Persistent L2ARC	George Amanakis	Independent
10:00 - 10:20	BREAK / BREAKOUT sessions		
10:20 - 11:00	ZIL Performance Improvements for Fast Media	Saji Nair	Nutanix
11:00 - 11:20	BREAK / BREAKOUT sessions		
11:20 - 11:40	Sequential Reconstruction	Mark Maybee	Cray
11:40 - 12:20	dRAID, Finally!	Mark Maybee	Cray
12:20 - 1:20	LUNCH / BREAKOUT sessions		
1:20 - 2:00	Send/Receive Performance Enhancements	Matt Ahrens	Delphix
2:00 - 2:20	BREAK / BREAKOUT sessions		
2:20 - 2:40	Improving "zfs diff" performance with reverse-name lookup	Sanjeev Bagewadi & David Chen	Nutanix
2:40 - 3:00	Performance Troubleshooting Tools	Gaurav Kumar	Nutanix
3:00 - 3:10	Closing	Matt Ahrens	Delphix
3:10 - 4:10	hang out	everyone	

Hackathon tomorrow! (Pacific time)

OpenZFS

Time	Title	Speaker	Company
9:00 - 9:10	Intro	Matt Ahrens	Delphix
9:10 - 9:30	File Cloning with Block Reference Table	Pawel Dawidek	Fudo Security
9:30 - 9:40	Default-Compatible Pool Features	Josh Paetzel	Panzura
9:40 - 10:10	Additional pitches	TBD day-of	
10:10 - 4:00	hacking!	everyone	
4:00 - 5:00	Hacking presentations, voting & awards	everyone	
5:00 - 6:00	hang out	everyone	