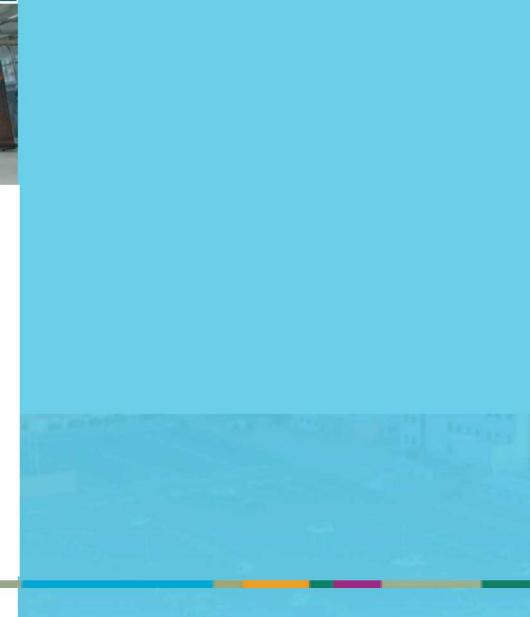
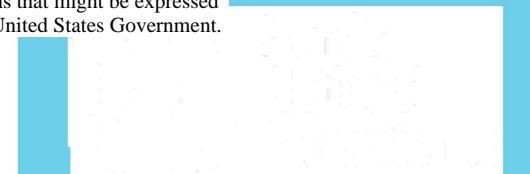


This paper describes objective technical results and analysis. Any subjective views or opinions that might be expressed in the paper do not necessarily represent the views of the U.S. Department of Energy or the United States Government.

Live Poll: <https://tinyurl.com/sc19bot>

SAND2019-14093C

SCI9 BOF: Containers in HPC



SAND2019-XXXX C
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Live Poll <https://tinyurl.com/sc19bof>

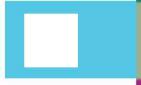




Lightning Talks – Container Experts

Live Poll: <https://tinyurl.com/sc19bof>

Shane



Reid



CJ



Bill

Vanessa



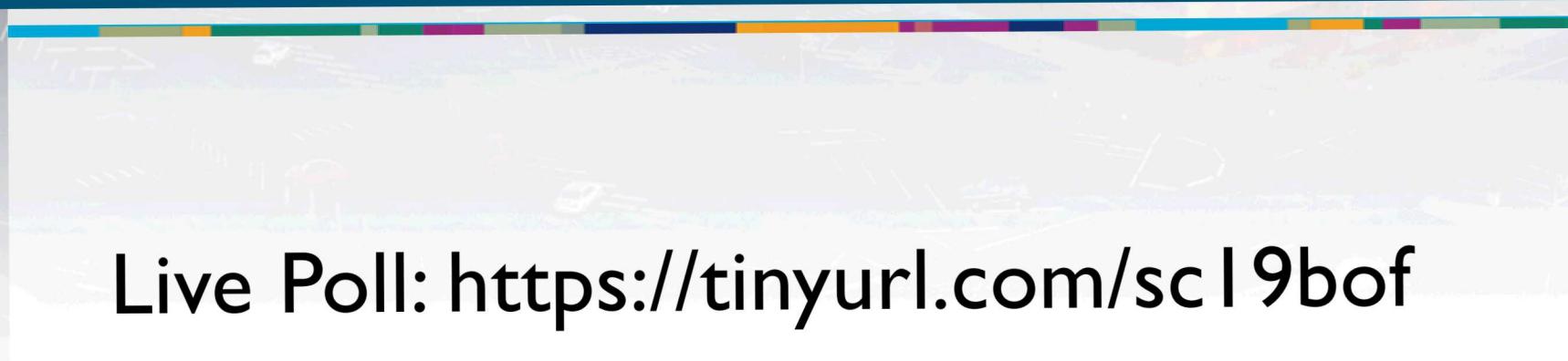


Live Polling Results

Live Poll: <https://tinyurl.com/sc19bof>



Panel Session



Live Poll: <https://tinyurl.com/sc19bof>

Panelists

- Shane Canon – NERSC/LBNL
- Reid Priedhorsky – LANL
- CJ Newburn – NVIDIA
- Bill Sparks – Cray

Question #1: Container Best Practices

- What are some best practices that users and facilities can invoke to ensure consistent usage and performance portability with HPC containers?

Question #2. Security

- What are the key security considerations when using containers in production HPC facilities?

Question #3: Container Services

- Should HPC facilities embrace or support service-based container orchestration frameworks?(eg: Kubernetes, OpenShift, Docker Swarm, etc)
- If so, what challenges exist in integrating orchestration services with traditional HPC batch schedulers?

Question #4: Exascale and Beyond

- What are some of the biggest changes or advances still to come with containers at Exascale?
- What are emerging challenges for containers especially in an HPC context?



Live Poll Results (again)

Live Poll: <https://tinyurl.com/sc19bof>