The Dark Art of Container Monitoring

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Me

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Seeing Inside Containers Is Not Easy!

Containers are:

- Isolated
- Self-Contained
- Simple
- Lightweight

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Can monitoring and troubleshooting play nice with these properties?

In This Talk

- Live overview of monitoring/troubleshooting options
  - command line
  - advanced namespaces tricks
  - sysdig

Demo environment

- Distributed Docker web application

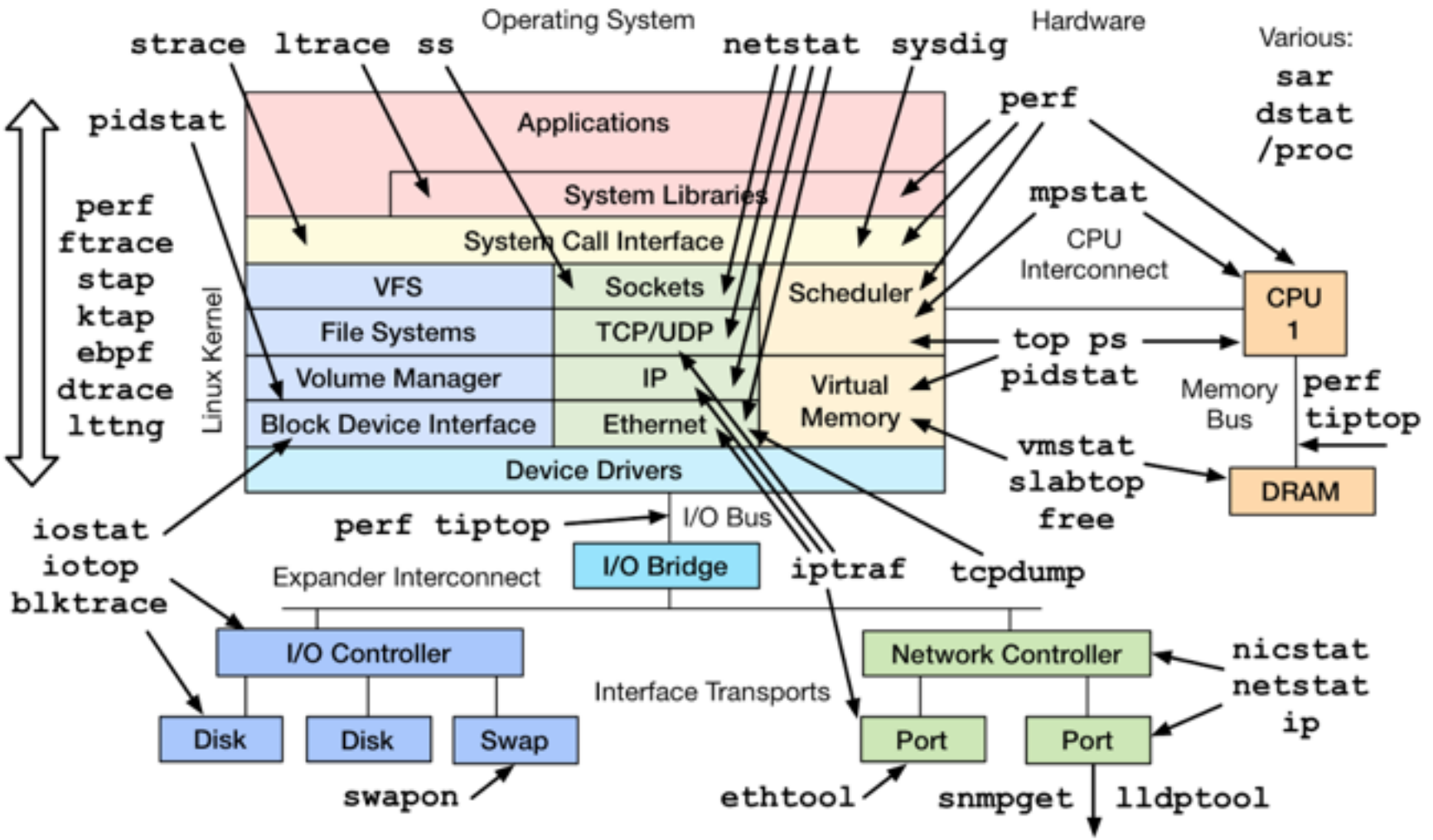
…a troubleshooting nightmare



Some Things We Want to Monitor

- Resource usage (CPU/Memory/Disk)
- Network activity
- File I/O activity
- Errors/faults
- Application activity

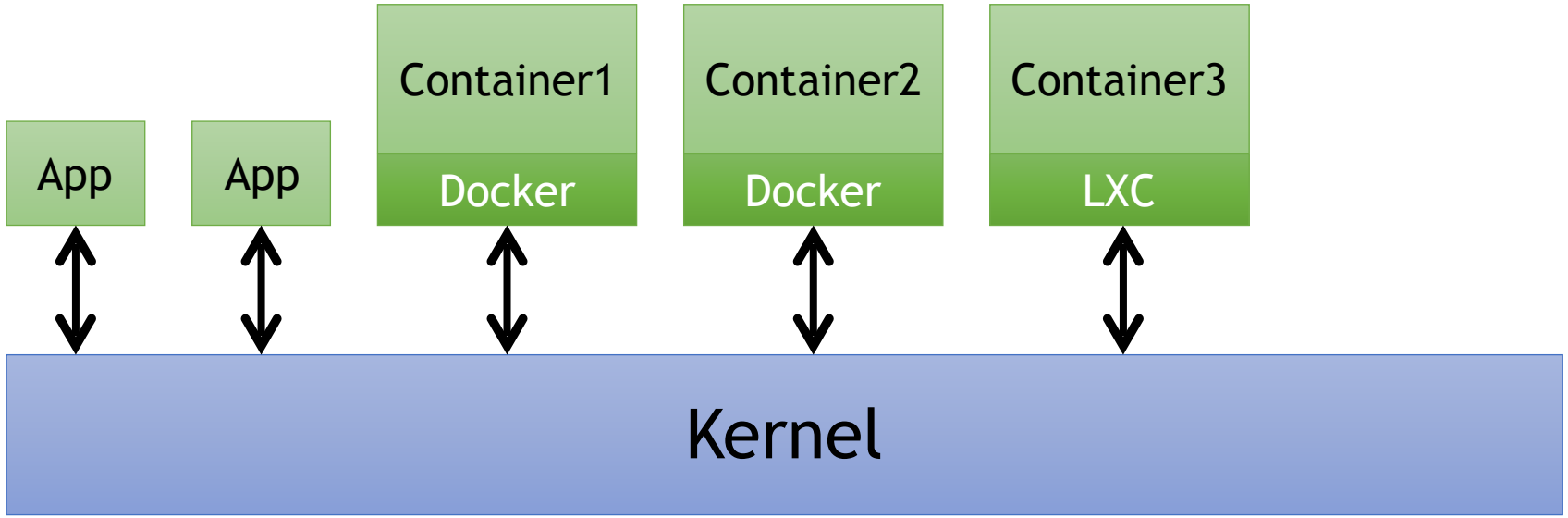
Troubleshooting like a pro



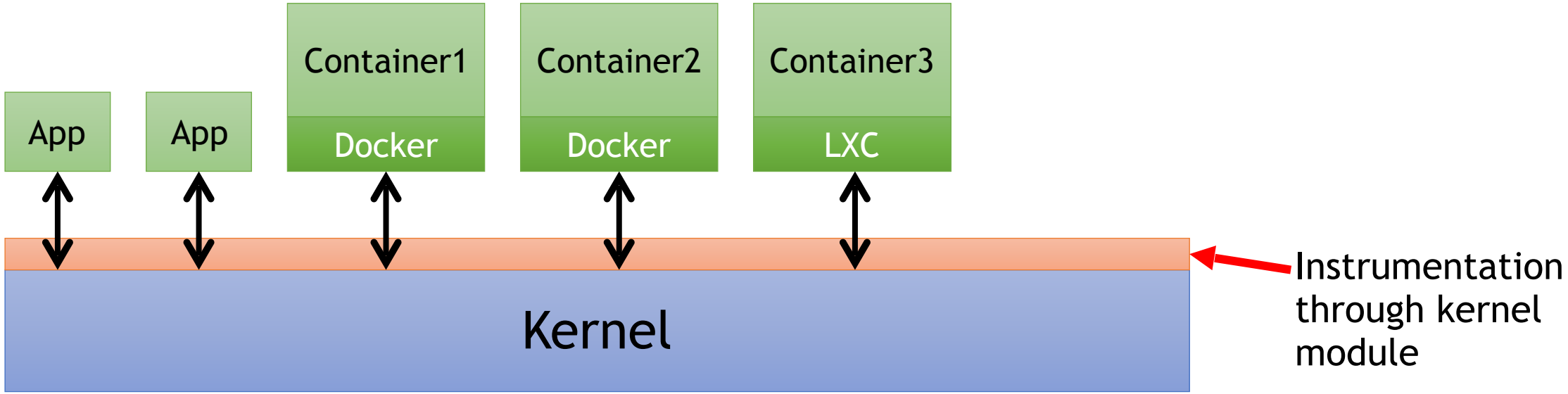
sysdig

- Capture system events, filter them, run useful scripts
- strace + tcpdump + lsof + htop + Lua
- Open Source
- Nice curses UI
- **Native support for containers!**

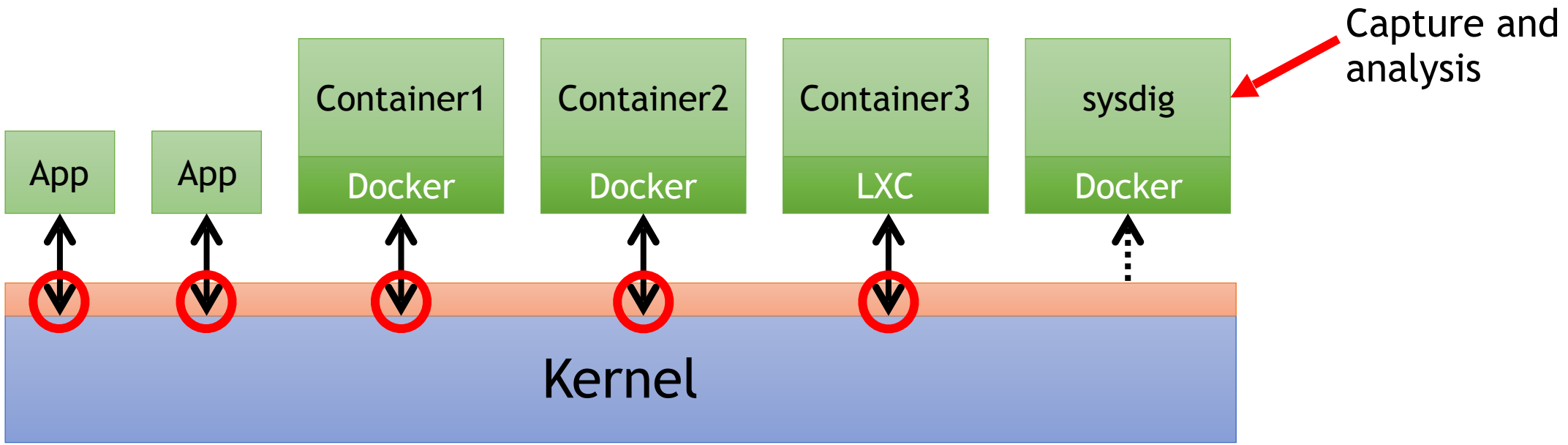
sysdig Architecture



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Great, but…

Multi-Node?!