

Docker for Beamline Controls

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The SAXS/WAXS beamline at the Australian Synchrotron has been successfully using docker containers to run epics IOCs, including Galil motor controllers and GigE video cameras, since 2016. This system has proved extremely reliable, easy to maintain, and self documenting. The current system uses Docker Swarm for High Availability/Redundancy, and where possible reuses docker images for multiple IOCs, with configuration injected at run time. This talk will give an introduction to Docker and present an overview of the implementation of Docker on the Australian Synchrotron SAXS/WAXS beamline.

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