

PRACE Winter School 2021

Day 3 - Dockers & Kubernetes Workshop

Welcome to a dedicated workshop for HPC users, introducing the concept of dockers and kubernetes to researchers in Europe and the Middle-East.

It is a good follow-up from the previous day HPC workshop given by the AWS team, and we will use the same tools and environment throughout the workshop that will be supported by AWS as well.

I hope you'll find it both challenging and enjoyable.

Pre-requisites

1. Good knowledge of Linux and ordinary command execution (apt, pip etc.)
2. Python programming skills (working with modules, file I/O)
3. Familiarity with AWS web console (CLI is a bonus)
4. An up-to-date web browser (e.g. Edge, Firefox, Chrome)

What browsers does the Management Console support? See FAQ:

<https://aws.amazon.com/console/faq-console/>

An up-to-date version of the Zoom client

Workshop Rules

1. The event is held via Zoom with a large audience
2. No need to turn the camera on during the entire session, but would be nice when speaking
3. Make sure your microphone is muted all the time, unless given permission by the presenter
4. Questions may be asked in the chat and we'll do our best to answer
5. During hands-on sessions, feel free to exchange knowledge via chat, but do not overflow the discussion, respecting others

Proposed Timetable

All times are UTC+2 (IST).

- 08:30 → 09:00: Welcome & Tech Check 30m

Welcome, login information to Event Engine via Zoom chat.

- 09:00 → 12:15: Part 1: Intro and Dockers (structured coffee breaks in-between)
- 12:15 → 13:00: Lunch Break
- 13:00 → 16:00: Part 2: Intro to Kubernetes (structured coffee breaks in-between)
- 16:00 → 17:15: Advanced Topics, Q&A

Time for each session may vary based on actual progress, we are not rushing to finish everything. You'll get all the resources by the end, even for the material planned but not covered.