

WLCG Node in Pakistan – Challenges & Experiences

Adeel-ur-Rehman Zafar

National Centre for Physics (NCP), QAU Campus, Islamabad, Pakistan

In this paper, we will present our experiences and issues encountered during deployment and management of Worldwide LHC Computing Grid node in Pakistan (NCP-LCG2). We will also discuss the challenges we have faced along with what we have learnt from running our setup during this time. A special emphasis will be made on the weak and unstable network, non-standard hardware and power infrastructure available to us, and as a consequence what was the performance of our Node. This experience is unique and would be very beneficial to existing and new grid sites facing similar conditions. This paper also discusses the availability, reliability and scalability of our grid site as well as the experiences we have gained in doing so. The final part of the paper will include important statistics and graphs showing achievements under the weak and then improved infrastructure of NCP-LCG2 within the WLCG planet.