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of Kazakhstan National Data Center (KNDC) under COVID-19 pandemic

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In Kazakhstan, for two months of 2020 there was an emergency rule over the whole country. For Almaty, where the KNDC is located, the urban office for coronavirus prohibited the operation of all offices, including the KNDC, movement of people and transport inside the city was limited. During 1-2 days it was necessary to re-arrange the operation of the Center, avoid the suspension of data acquisition and transmission processes, and continue data processing and seismic bulletins compilation. This became possible owing to gradual transfer of KNDC to the technology of virtual operation of servers and work machines started in 2018. By 2020, almost all servers and work machines operated through the Proxmox Virtual Environment with a web-interface. This helped to quickly arrange remote operation of analysts, and control data arrival and the operation of equipment and software. For two months, only one person had access to the office - not a specialist - who was responsible for heating and communications. He communicated with KNDC staff through the WhatsApp application, received instructions and eliminated problems if it was necessary. For two months of this operation with no people, thanks to the well-arranged computer-communication infrastructure there were no failures in work, and all obligations were implemented properly and on time.

Promotional text

The report shows an example of Kazakhstan National Data Center operation during the pandemic period. The uninterrupted operation of the Data Center is the contribution of the country into the non-proliferation regime and control for nuclear tests.

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