

Powerful link and instant scaling. How Oktawave saved streaming from cardiac surgery



Client:
MegiTeam

Process:
ensuring accessibility for online streaming

Resources used:
Oktawave Cloud Instances

Benefits:
rapid implementation, efficiency, ensure the continuity of IT processes



Oktawave infrastructure ensured efficient streaming for innovative heart surgery, viewed on the RMF24 portal by thousands of Internet users.

MegiTeam provides hosting services for developers, interactive agencies and businesses. Company offers not only shared hosting and virtual servers, but also the optimization of existing webpages. Company is not limited to ready solutions, often creates their own to meet the expectations of their customers.

In November 2012 Outstanding Studios, the company specializing in the production of film and broadcast online turned to MegiTeam. Company needed assistance in organizing streaming video for RMF FM of unusual event - an innovative cardiac surgery. Doctors from the Institute of Cardiology at Jagiellonian University Medical College needed to put implant into the heart of a patient, using a three-dimensional image. The whole procedure was planned to be broadcasted live on the RMF24.pl portal.

The provision and maintenance of filming equipment and operators was a Outstanding Studios responsibility. MegiTeam needed to focus on the implementation of streaming technology.

- We did not have much time to prepare, we missed the detailed information - says Magdalena Zarych, owner of the MegiTeam. - We knew that the story will go on the RMF website, but we did not know how much traffic there will be. We didn't even know whether the story will be promoted.

A well-planned operation

Initially for streaming the MegiTeam company set up a dedicated server equipped with 8 GB of RAM and 4 core Xeon E3 1220 processor. Configuration had a weak point - limited bandwidth up to 100 Mbps. The "Plan B" was to prepare an instance of OCI (Oktawave Cloud Instances) with "Starter" class (0.9 GB RAM, 1 x 2.5 Ghz VCPU), complete with a network card with a capacity of 10 Gbps. It was to be a proxy for the streaming server, and if necessary to take some of the traffic.

Moment after the operation began and streaming started, it turned out that it was worth it to prepare "Plan B" - a dedicated server bandwidth was fully utilized after a few seconds. It was necessary to redirect traffic to an Oktawave instance quickly.

- We decided to relieve our machine a little too late, so a few people had problems with connection, but we managed to do a quick fix - Magda Zarych says.

Fortunately, redirecting traffic to Oktawave was easy. On domain, where a flash player was present, many address records were set - few per Oktawave instances and one single to MegiTeam server. This allowed to evenly distribute traffic between all machines.

- During the broadcast we cloned OCI instance and incorporated it into a pool of servers. The whole operation was swift thanks to appropriate configuration and did not require us to even log on to the new machine - Magda Zarych says.

Image from the operating room was sent to MegiTeam server and from there data was sent to Oktawave instance, with which in turn, internet users who watched the story on RMF24 website connected to.



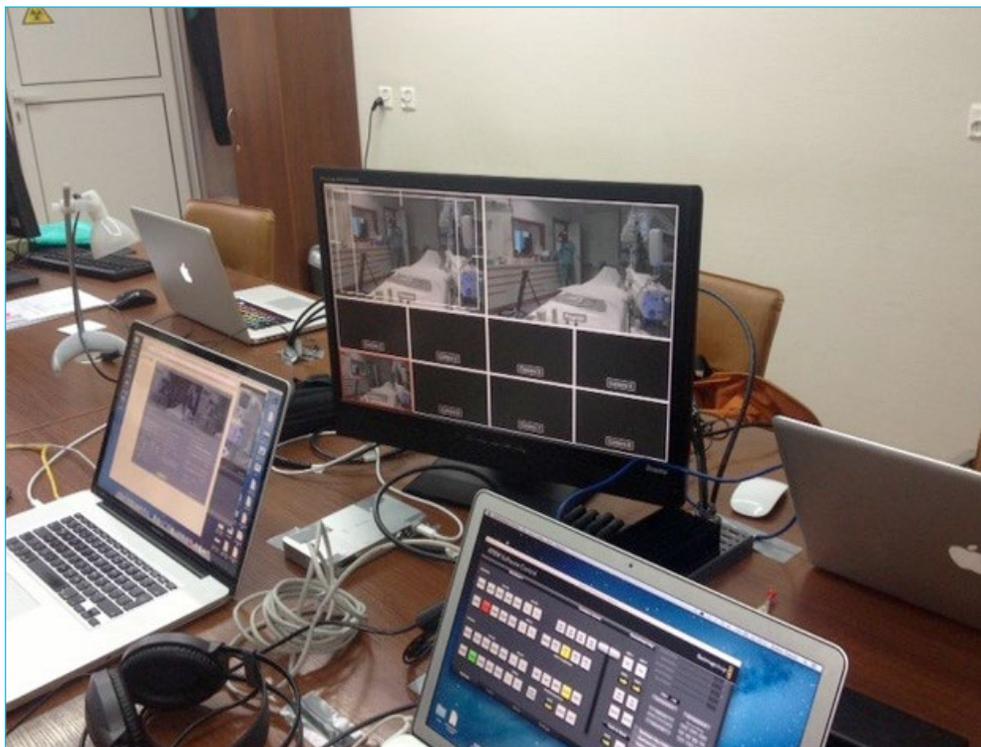
Magda Zarych
MegiTeam owner

Successful treatment

Surgery and broadcast of it lasted about hour. Both projects were successful.

- Streaming went very well - Magda Zarych concludes. - Our only mistake was that we didn't transfer data from Oktawave machines from the beginning. Without hosting in the cloud we would not be able to handle this event in such a short time and increase resources if necessary.

MegiTeam owner does not want to reveal details, but admits that the cost of using Oktawave infrastructure proved to be very low. Thanks to the pay-as-you-go model of accounting, the company paid only for the resources that were actually used.



- I think that our operation is one of the most pictorial uses of cloudcomputing. Suddenly we ran out of resources and we got them right away - Magda Zarych concludes.

More information

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