



[aws](#)[efs](#)[kubernetes](#)[tensorflow](#)[pipeline](#)[spark](#)**Sandor Magyari**

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Amazon Elastic File System on Kubernetes

At [Banzai Cloud](#) we provision different frameworks and tools like [Spark](#), [Zeppelin](#) and most recently [Tensorflow](#), all running on our [Pipeline](#) PaaS (built on Kubernetes).

One of [Pipeline's](#) early adopter is running a **Tensorflow** [Training Controller](#) using [GPUs](#) on AWS EC2 wired into our [CI/CD pipeline](#) and needed significant parallelization for reading training data. We have introduced support for [Amazon Elastic File System](#) and will make it publicly available in the forthcoming release of [Pipeline](#). Beside **Tensorflow** they also use EFS for **Spark Streaming checkpointing** - instead of S3 (note that we don't use HDFS at all).

This post would like to walk you through the gotchas of **EFS** on Kubernetes and give you a clear idea about the benefits, before we dig into the Tensorflow and Spark Streaming examples in the next related posts, hence:

- At the end of the blog you will understand how EFS works on k8s
- You will be able to provision and use EFS with or without Pipeline
- Appreciate the simplicity and automation of what Pipeline does



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