# FSX for Lustre

Amazon FSx is a fully managed service that allows you to launch and run popular file systems in the cloud. It supports various file systems, each tailored for specific workloads, offering the flexibility to choose the right file system for your needs. FSx handles all the complexities of file system deployment, management, scaling, and optimization, allowing you to focus on your applications.

One of the supported file systems by Amazon FSx is Lustre, which is a an open-source, high-performance parallel file system designed for large-scale, data-intensive workloads. It is particularly well-known for its ability to handle massive amounts of data and provide high throughput and low-latency access to that data.

Also worth mentioning is that Lustre is a Linux-based file system, and hence is natively compatible with Linux. In fact, AWS even provides its own Lustre client for Linux instances on AWS, allowing them to more conveniently connect to and use FSx for Lustre.

This makes it especially useful when designing architecture for applications which have intense performance requirements, such as High-Performance Computing (HPC), which necessitate highly performant file systems. Therefore, FSx for Lustre is often the default choice when designing architectures in Linux and/or designing architectures for performance-intensive applications.