



discover our services

lab operations assessment

Let us evaluate your operational efficiency.

Our Laboratory Operations Assessment (LOA) service provides an independent review of your operational efficiencies and finds areas of opportunity for improvement. The LOA process involves on-site interviews with all of your key stakeholders and evaluates their roles and their pain points. Once we've completed the LOA and presented our results, we can work with you to custom-tailor an ESP solution.

[contact us](#)



implementation

We offer flexible deployment and training services.

L7 Informatics will deploy ESP onto your preferred compute resources and build connectors to your designated instrumentation and software platforms. We will also help you develop and build workflows into ESP to let you hit the ground running. Training on ESP is included in our implementation services to make sure all your operators are well-versed in all things ESP.



bioinformatics

We're excited to help you build or optimize your bioinformatics pipeline.





Provide us your analysis goals, and we provide you with a pipeline.



Take an existing published analysis and create a custom pipeline.



We identify computational and data flow bottlenecks in your existing pipelines and increase performance by 2-10x.



architecture + data strategy

Let's get you started in analysis.

Our architecture + data strategy service is intended to help customers with data-intensive workflows create a data architecture roadmap specifically for their needs.

We help you understand the parameters that matter, and we navigate the many hardware options with you to recommend the right combination of components for your needs. Our roadmaps outline solutions that scale over time, focusing first on your 18-month goals, with expansion points at regular intervals beyond.

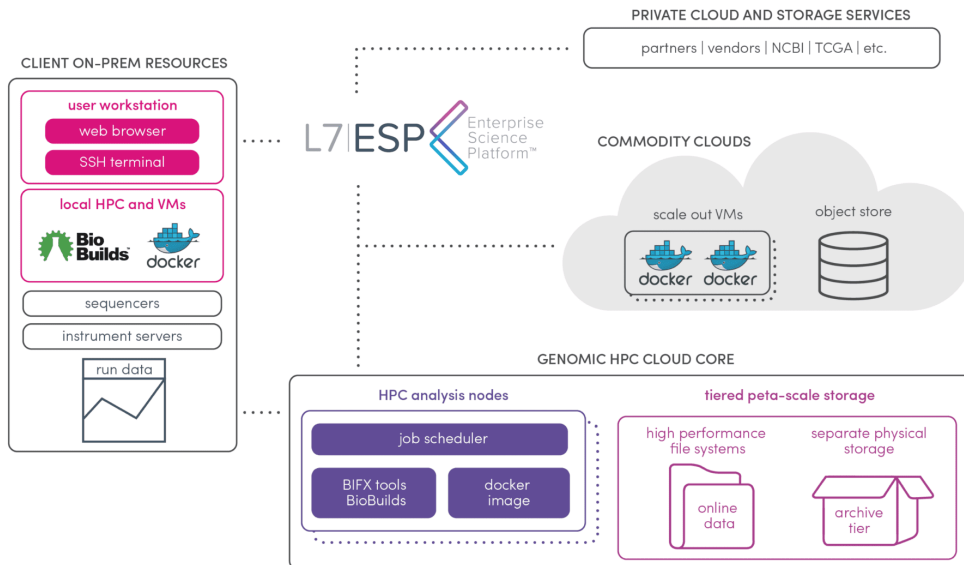
software deployment

L7 ESP software can be deployed on the cloud-hosting provider of your choice or on-premise within your own cloud

ESP solution is built for genomic-scale workflows whether it is deployed on our cloud, your cloud or on-premise.

The L7 High-Performance genomic cloud architecture addresses the gaps in traditional cloud and SaaS architecture, providing a complete “Enterprise-as-a-Service” solution. Orchestrated by Enterprise Science Platform (ESP), the genomic cloud architecture was built using dedicated cloud resources and is designed specifically for genomics and other big data-intensive sciences

L7 genomic cloud architecture



how is the L7 genomic cloud architecture unique?

COMPREHENSIVE SOFTWARE STACK

L7's comprehensive and complete software stack streamlines deployment and operations. The Genomic Cloud works seamlessly with Enterprise Science Platform (ESP), BioBuilds, and our cloud partners' job schedulers.

SECURE

With a virtual network infrastructure featuring a dedicated VPN, VLAN, and single

sign-on support, the Genomic Cloud offers secure access with no additional setup or costs.

GLOBAL FOOTPRINT

By partnering with the world's foremost cloud providers, which has data centers on five continents, the Genomic Cloud can reach customers anywhere with region-specific cloud regulations.

PURPOSE-BUILT HARDWARE

The L7 Genomic Cloud features tightly coupled storage, high memory compute nodes, and a fast internal network designed for high-throughput genomics. It has support for up to 500 compute nodes and more than 10 petabytes of storage, supports remote, on-premises, or hybrid cloud models in isolated single or multi-tenant instances, and is designed from the ground up for scientific computing.

ESP BACKING

ESP is the backbone of the interface, orchestrating all data movement and analysis, automating analysis and reporting. Sample and data tracking, protocol and analysis pipeline management, and powerful reporting tools offer a complete enterprise-scale data management platform.



partners

We're also proud to leverage strong partnerships to provide services.





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