PLUNIFY CLOUD

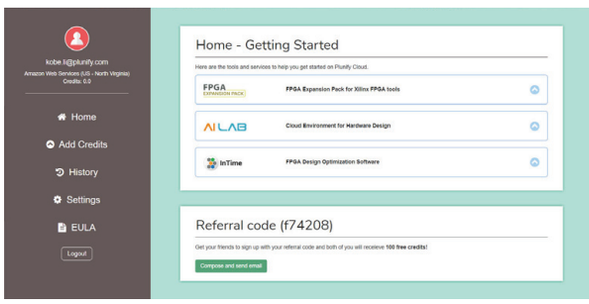
Datasheet

Overview

Plunify Cloud is built for FPGA designers to utilize the power of cloud computing.

This platform simplifies the technical and security management aspects of accessing a cloud infrastructure. With a suite of cloud-enabled tools, flows and services, any designer can quickly create and optimize FPGA applications without having to be an IT expert.

Account



To use any tool or service on the platform, register a Plunify Cloud user account at https://cloud.plunify.com

On this web portal, users can also manage their accounts, view demo videos and tutorials, and learn more about the available resources and tools.

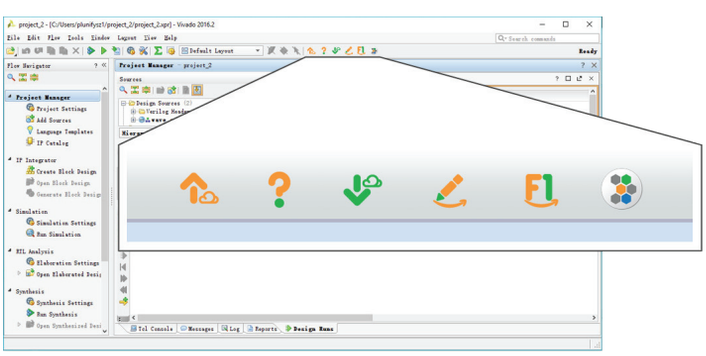
Cloud Tools

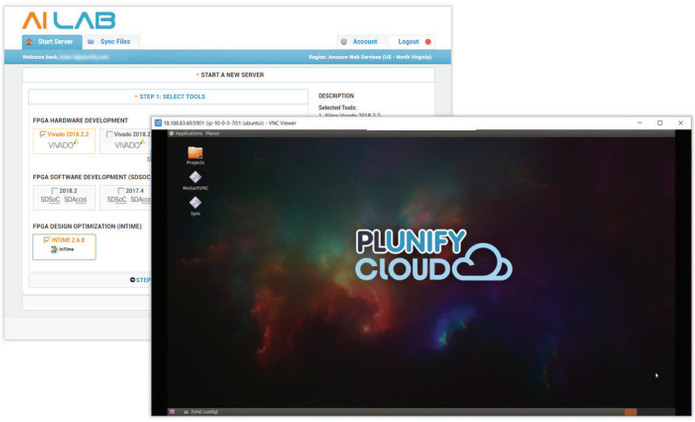
A variety of tools are available for experienced designers to compile and optimize designs, as well as for students or researchers who are keen on exploring ways to design and optimize.

FPGA EXPANSION PACK

The FPGA Expansion Pack (FEP) is a cloud plugin that is integrated onto the Vivado toolbar. It enables cloud functionality, such as compilation, status monitoring and results download directly into Vivado.

The complexities of archiving your project, encrypting files and securely transferring them are taken care of by the Expansion Pack. Select from a wide range of cloud servers and Plunify Cloud will invoke the same version of Vivado as well.





AI LAB

AI Lab is a virtual environment that enables users to leverage on the cloud for their research and development needs.

AI Lab cloud desktop is accessible with your web browser or a VNC client. You can select from a wide range of servers classes, chip design software, and hardware, including FPGAs and GPUs.

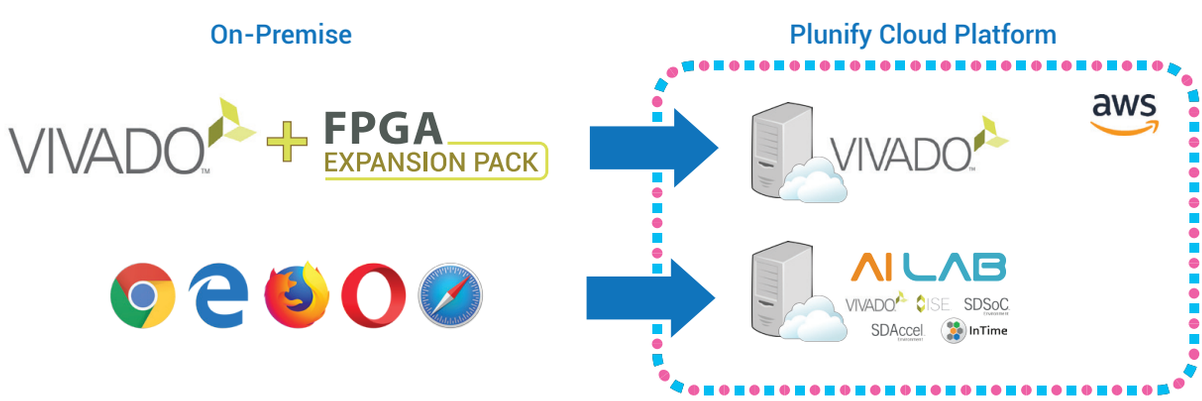
AI Lab consumes credits based on the number of hours used. Credits cover compute, bandwidth, storage as well as software licensing charges.

Software on AI Lab

VIVADO ISE SDSoC Environment SDAccel Environment InTime

Tools at A Glance

	Type	Functionality	Usage Scenario	Local System Requirement
FPGA EXPANSION PACK	Vivado plugin	Compilation and optimization of FPGA design in the cloud	Professional FPGA design development	Vivado installed At least 50MB disk space for installation
AI LAB	Virtual environment (desktop in a browser)	Any task using FPGA, GPU, CPU for acceleration	Research and development, academic purpose	No requirements for software/ hardware



Uncompromised Security

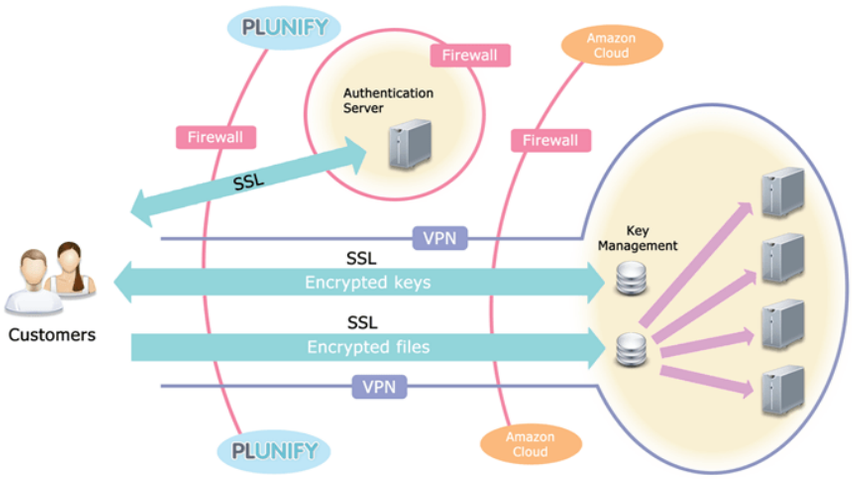
Security is a full-time commitment, and is first and foremost in our minds. We hold our cloud providers to the highest security standards.

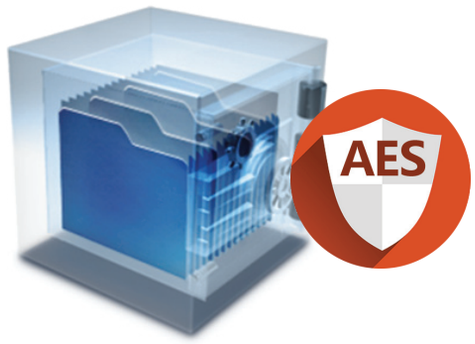
Plunify Cloud is secured using a variety of technologies. The platform adds layers of user authentication as well as file transfer security on top of the existing AWS security framework.

Transmission of data

Upon registration, each user is assigned a unique set of keys which are used to encrypt all design sources and compilation output files. All communications with the cloud are SSL-protected, the same methods used by leading banks.

In addition, all data is AES-encrypted before transmission. We also generate a set of public/private keys on the fly to add a further layer of encryption on your files.





Data Storage

All data is AES-encrypted. Files are stored in the cloud only temporarily, and strictly no one else has access to your design. Output files are securely erased from the cloud servers when processing is complete. The account details are also fully encrypted.

Infrastructure Security

Essential network security such as firewalls are in place 24/7. All software are updated regularly with the latest security enhancements. Only authorized staff are allowed to access any parts of the infrastructure. Each staff is limited and restricted by their area of work.

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Data Privacy and Confidentiality

All your data belongs to you as defined in our terms and conditions. If required, Plunify can go over our data privacy and confidentiality policies together with you to ensure compliance.

About Plunify

Plunify helps chip design companies optimize FPGA designs with big data and machine learning. Plunify is based in Singapore and in the United States.

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