Synopsys Cloud FlexEDA BYOC Deployment with Microsoft Azure Modeling and Simulation Workbench

Overview

Synopsys Cloud, the industry's first truly flexible EDA-as-a-service platform, enables customers who prefer to manage their own public cloud environment through the BYOC with FlexEDA deployment option. With access to unlimited EDA software licenses on demand through its completely browser-based chip design experience, chip designers are empowered to scale large EDA jobs in the cloud with extreme elasticity and leverage the pay-per-use experience, by the hour or by the minute.

This Reference Architecture is designed for customers who would like to leverage Azure Modeling and Simulation Workbench for a secure collaborative EDA experience with the additional flexibility of Synopsys Cloud FlexEDA.

Benefit to Customers

1. Leverage Microsoft Azure Modeling and Simulation Workbench for secure collaboration in a self-hosted environment.
2. Enable Synopsys Cloud FlexEDA model for access to unlimited EDA licenses on a pay-per-use basis by the hour or minute.
3. Complete control of the self-hosted chip design environment on Azure and deployment of self-service cloud subscription license (CSL) that provide the ability to automate license server management and auto-scaling.
4. Access to the to the Synopsys Cloud Portal, which provides detailed usage analytics, self-service cloud subscription license (CSL) purchases, and license and budget governance.

Deployment Architecture

Customers will enable the one-time configuration between their Azure Workbench environment and the Synopsys Cloud service to establish secure connectivity. This will activate Synopsys Cloud licensing and metering, which is leveraged through a simple environment variable in the customer's flow scripts to enable Pay-Per-Use (PPU) with FlexEDA. The PPU service autoscales on-demand, allowing customers to run any number of jobs with unlimited license access any time.