

NVIDIA + NIMBIX PARTNERSHIP

Working Together to Deliver Accelerated Computing

Nimbix was the first cloud provider to partner with NVIDIA

Has offered every NVIDIA compute GPU, including latest Volta V100 GPU

Only public cloud provider in the Americas to offer NVIDIA DGX-1 systems





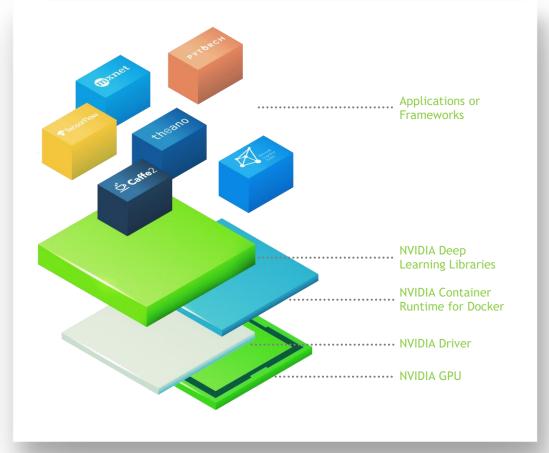


CHALLENGES WITH COMPLEX SOFTWARE

Current DIY GPU-accelerated AI and HPC deployments are complex and time consuming to build, test and maintain

Development of software frameworks by the community is moving very fast

Requires high level of expertise to manage driver, library, framework dependencies



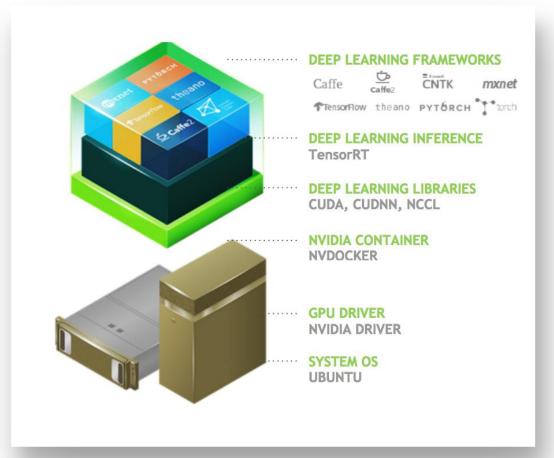


NGC DELIVERS A GPU OPTIMIZED ENVIRONMENT

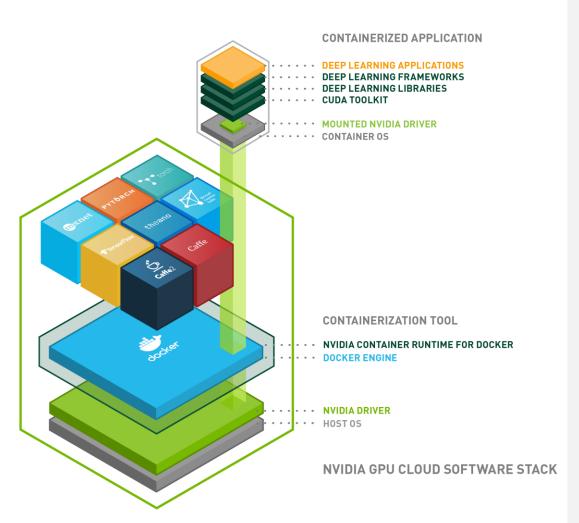
Integrates the deep learning SDK, libraries, drivers and OS into a single environment

Removes all the DIY complexity of managing dependencies, updates

Stack runs in a VM locally or in the cloud







WHY CONTAINERS?

Benefits of Containers:

Simplify deployment of GPU-accelerated software, eliminating time-consuming software integration work

Isolate individual deep learning frameworks and applications

Share, collaborate, and test applications across different environments



NVIDIA GPU CLOUD

Simple access to GPU-accelerated software

Discover 30 GPU-Accelerated Containers
Deep learning, HPC, and partner applications

Innovate in Minutes, Not Weeks
Get up and running quickly

Access from Anywhere

Supports NVIDIA Volta or Pascal™ architecture GPUs on NVIDIA DGX Systems and supported cloud providers





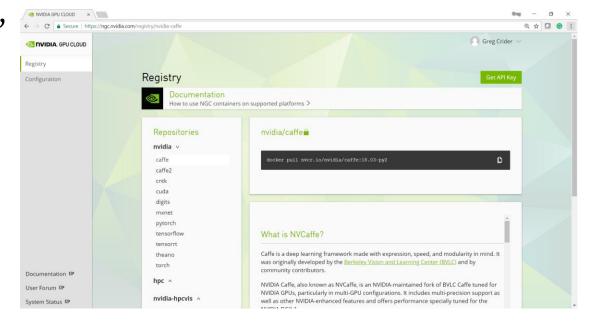
NGC CONTAINER REGISTRY

One stop shop for GPU optimized containers

Deep Learning Frameworks, drivers, OS, all pre-configured, tested, and optimized, updated monthly

Curated HPC and third-party applications

Updated monthly to deliver the highest performance frameworks in the industry



CURRENT NGC CONTAINERS

DEEP LEARNING

CAFFE
CAFFE2
CNTK
CUDA
DIGITS
MXNET
PYTORCH
TENSORFLOW
TENSORRT
THEANO
TORCH

HPC VIZ

PARAVIEW-HOLODECK PARAVIEW-INDEX PARAVIEW-OPTIX INDEX VMD **HPC**

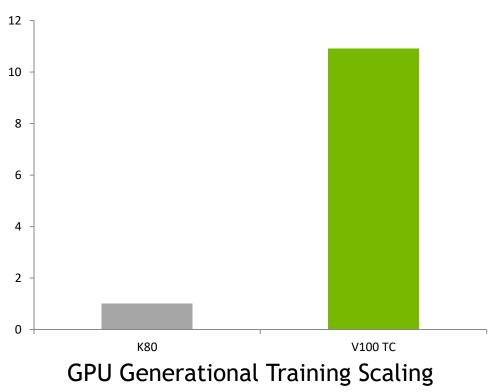
GAMESS
GROMACS
LAMMPS
NAMD
CHROMA
MILC
RELION
CANDLE
LATTICE MICROBES

PARTNER

H2O MAPD CHAINER PADDLEPADDLE KINETICA

MAXIMIZING PERFORMANCE ON VOLTA

Greater than 10x Performance on Volta vs K80



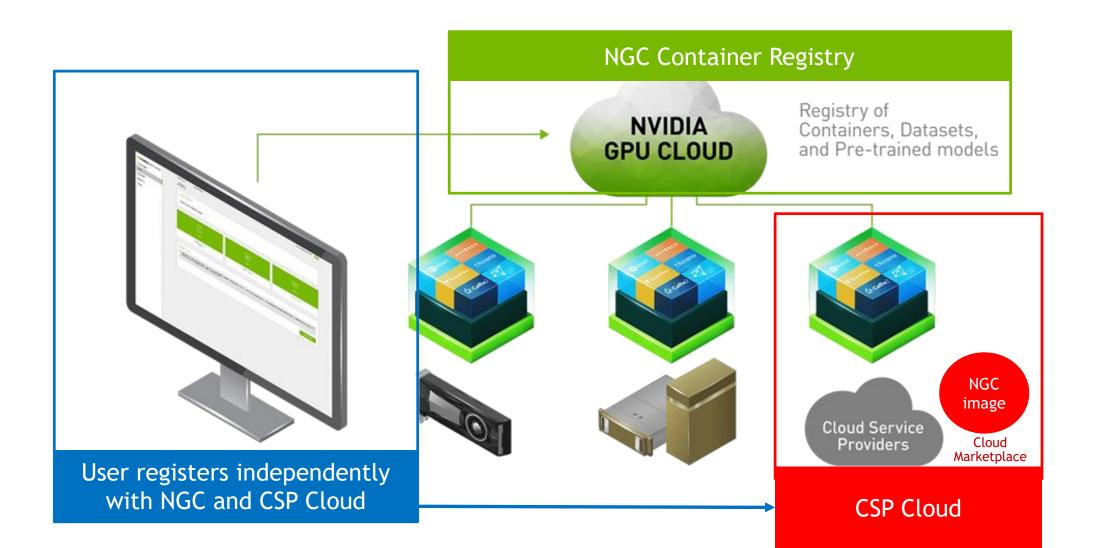
Frameworks on NGC have the latest NVIDIA optimizations for Volta

Cloud images from NVIDIA are tuned for maximum performance

Volta is >10x faster than K80



NGC CONTAINERS RUNNING ON A CSP CLOUD



3 STEPS TO USING NGC ON A CSP CLOUD

CREATE A NGC ACCOUNT

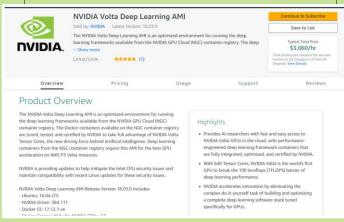
User creates a free NGC account on NVIDIA's web site running in the US

www.nvidia.com/ngcsignup



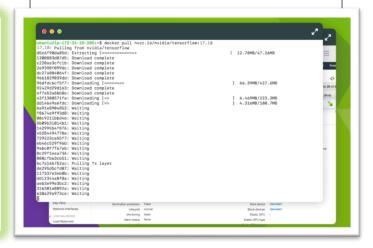
CREATE A CSP CLOUD ACCOUNT AND RUN A GPU INSTANCE

User creates a CSP Cloud account and starts a GPU instance using the NGC image



DOWNLOAD NGC CONTAINERS

User running a GPU instance in the CSP Cloud downloads no-cost containers from the NGC Container Registry



NVIDIA GPU CLOUD

GPU-accelerated containers for deep learning, HPC, and HPC visualization



GPU-Accelerated Containers



Innovate In Minutes, Not Weeks



Access from Anywhere



