ACCELERATE AI DATA PIPELINE

With FlashStack by Cisco and Pure Storage

FlashStack™

COMPLEXITIES OF AI IN PRODUCTION

INGEST

From sensors, machines, & user generated

CLEAN & TRANSFORM

Label, anomaly detection, ETL, prep, stage

CPU Servers

EXPLORE

Quickly iterate to converge on models

GPU Servers

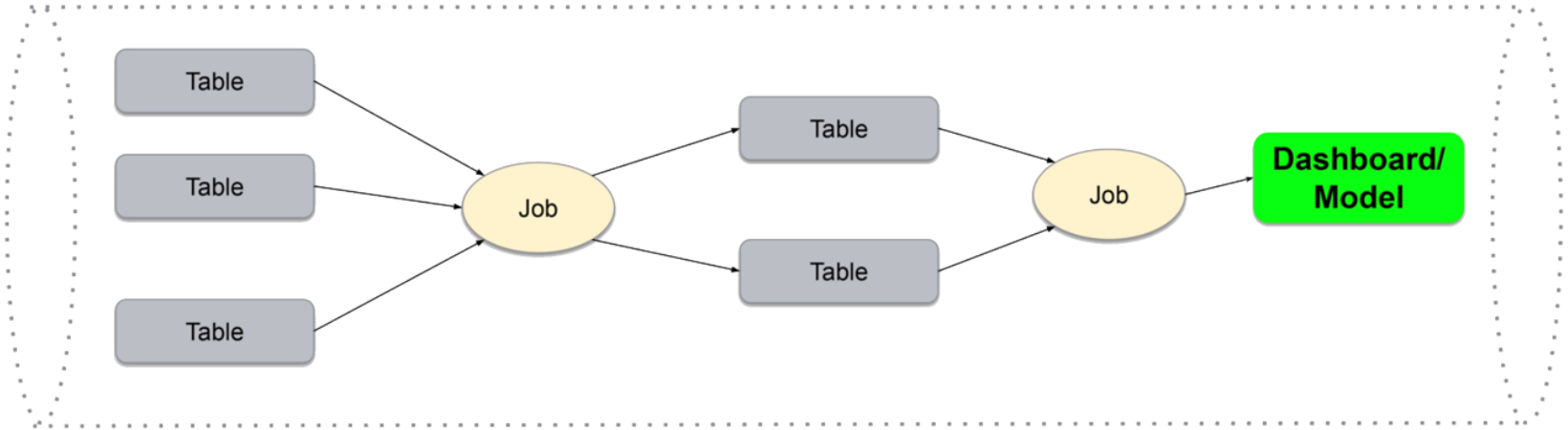
TRAIN

Run for hours to days in production cluster

GPU Production Cluster

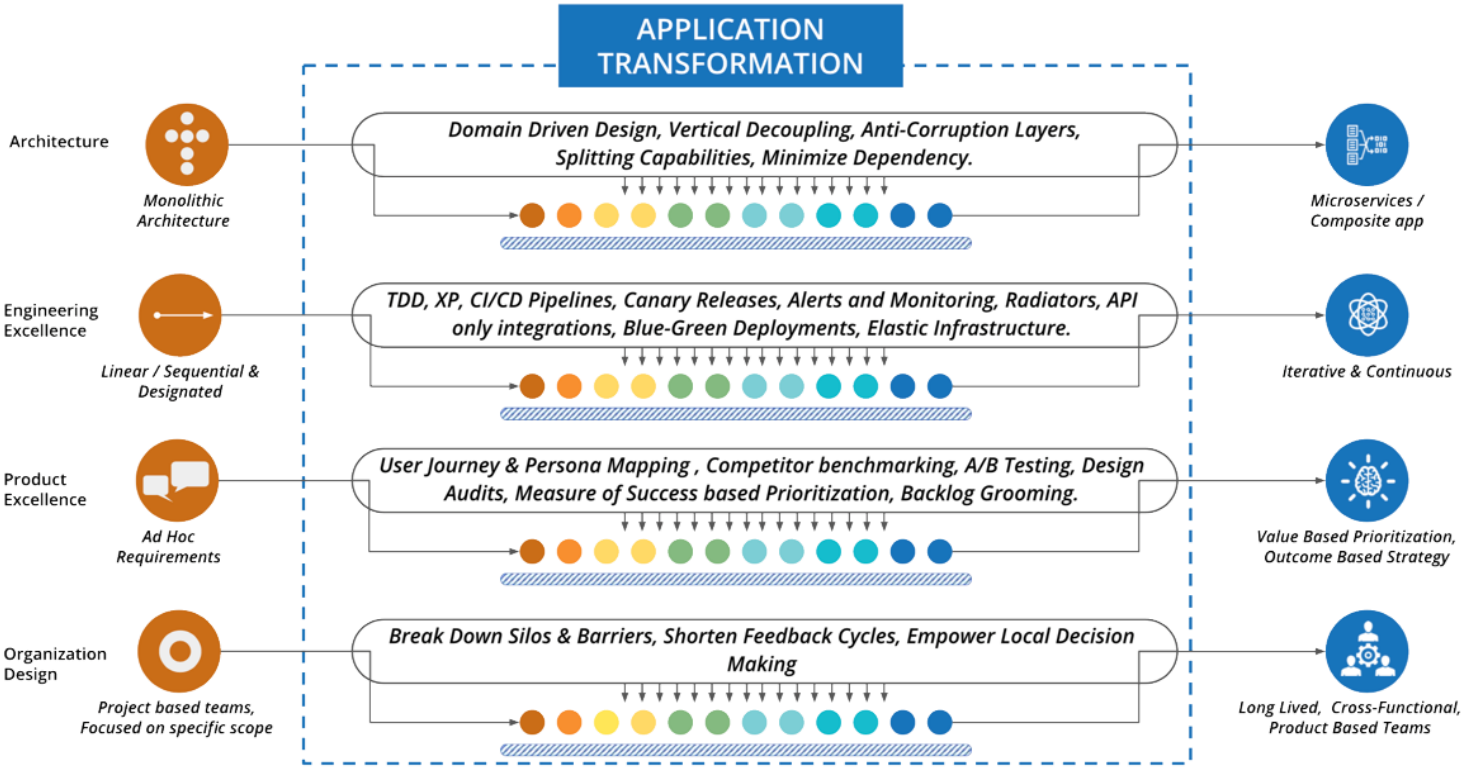
FlashStack™

WITHIN EACH AI STAGE



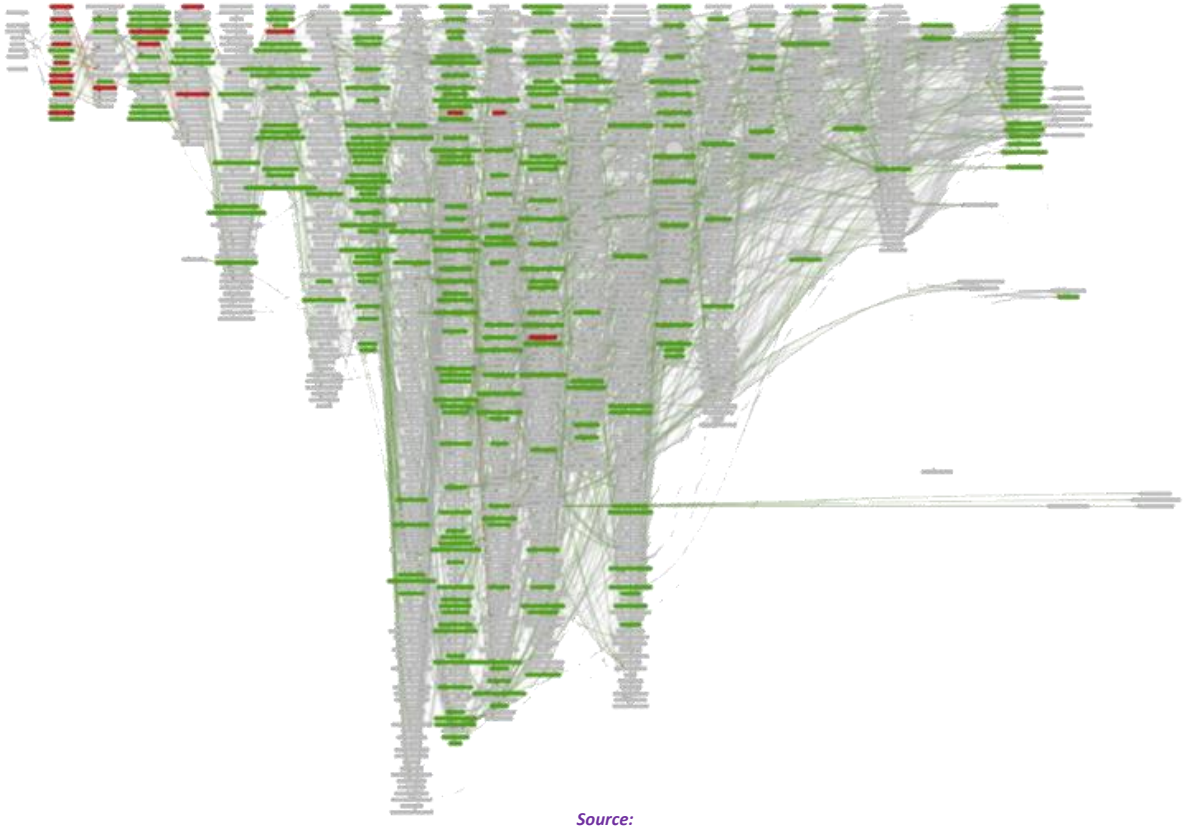
Source:
Medium – Microservices Visualization Tool

DEPLOYED VIA MICROSERVICES



Source:
ThoughtWorks – Mike Beaven, Digital Dialogue 2019

COMPLEXITY AT SCALE



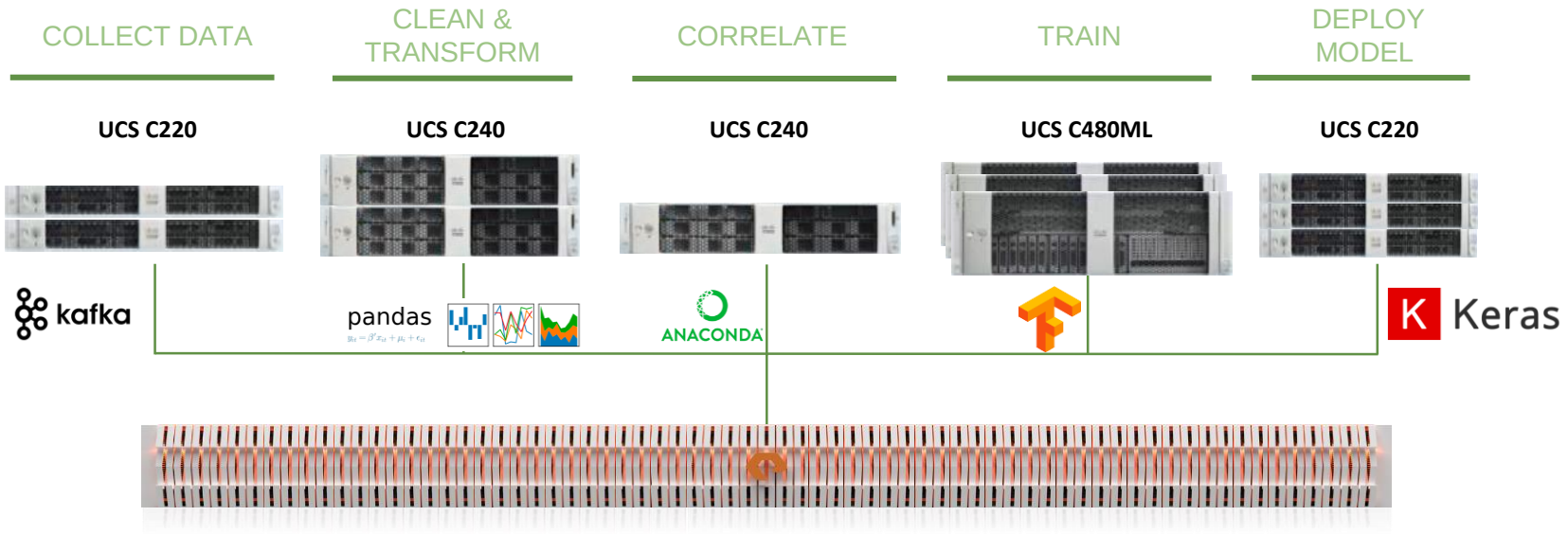
Source:
Medium – Microservices Visualization Tool

ANNOUNCING FLASHSTACK FOR AI

Enabling self-service
for
faster iterations
and
experimentation.

SIMPLIFY YOUR DATA PIPELINE

POWERED BY FLASHSTACK FOR AI



FlashStack™

SEAMLESSLY EXPAND YOUR BIG DATA ECOSYSTEM TO AI

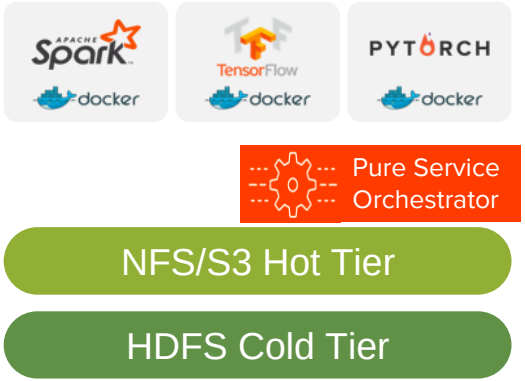
Cisco Validated Designs for FlashStack for AI

Cloudera Data Science Work Bench

Hadoop Coupled with GPU Nodes for Deep Learning with Jupyter Notebook

Kubeflow

Portable, Scalable ML Stack Enabling Rapid Development and Deployment



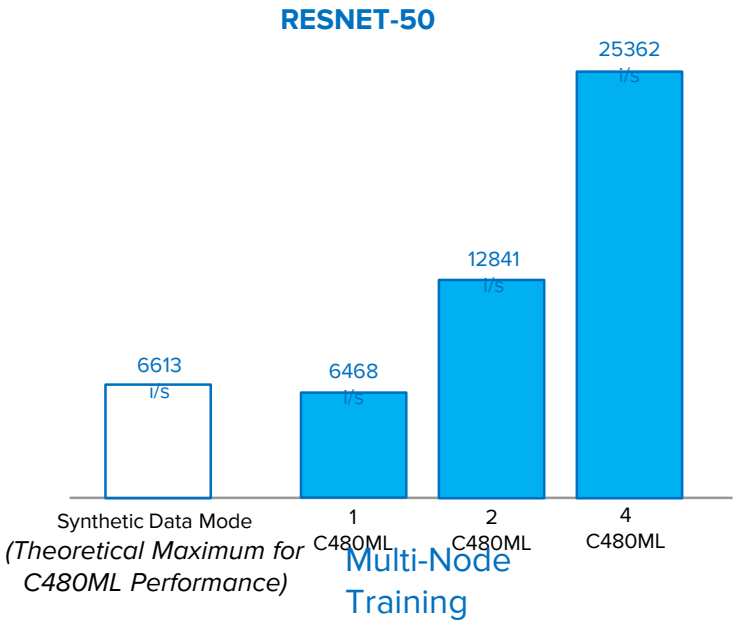
Hadoop 3.1 Data Lake

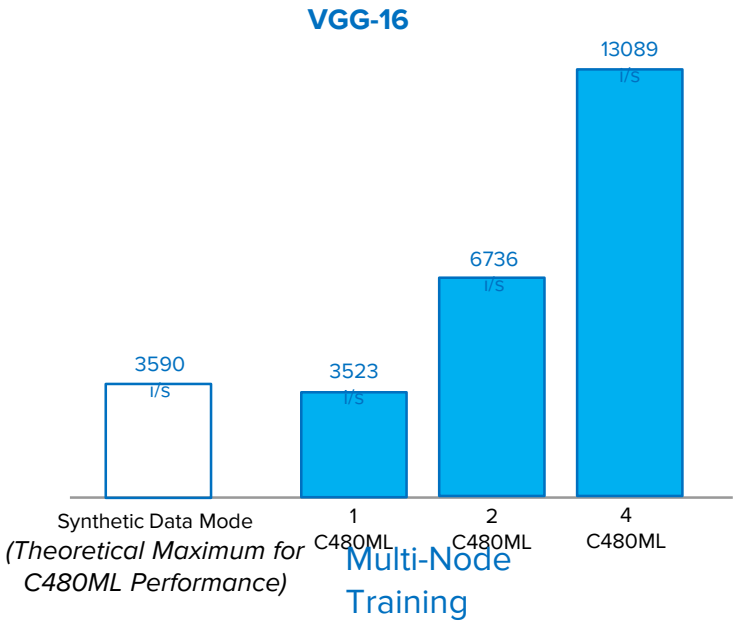
Integrate Hadoop and AI/ML: YARN Scheduling CPU and GPU with Docker Application Support

FlashStack™

SEAMLESS SCALABILITY FOR IT TEAMS

MAXIMUM PRODUCTIVITY FOR DATA TEAMS





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ANNOUNCING FLASHSTACK FOR AI

Cisco UCS C480 M5 ML: Next-Gen AI Server

- Purpose-built rack-scale solution for Deep Learning
- Eight NVIDIA Tesla V100s with NVIDIA NVLink Interconnect
- Scalable AI frameworks out-of-box

Cisco Fabric: State-of-the-art Data Center Fabric Switching

- Massive Network bandwidth for fast data ingest with Nexus switches- 100Gb
- Multi-protocol Storage Interconnect

Pure FlashBlade Storage: Fast, Reliable and Shared Storage

- Next-Gen all-flash storage architected for modern analytics & AI
- Seamless data sharing across the data pipeline with Pure Data Hub
- Elastically scale-out to Petabytes as data grows with zero-downtime

Simplify Your ML and DL Data Pipeline!

FLASHSTACK FOR AI

Next-Gen Stack
Platform for AI/ML Workloads

Built by Industry Innovators
AI/ML in a Box

Next Gen Solutions for Next Gen Opportunities

FlashStack Built for AI/ML

For Modern Workloads
Ingest, Analyze, Access at Massive Scale