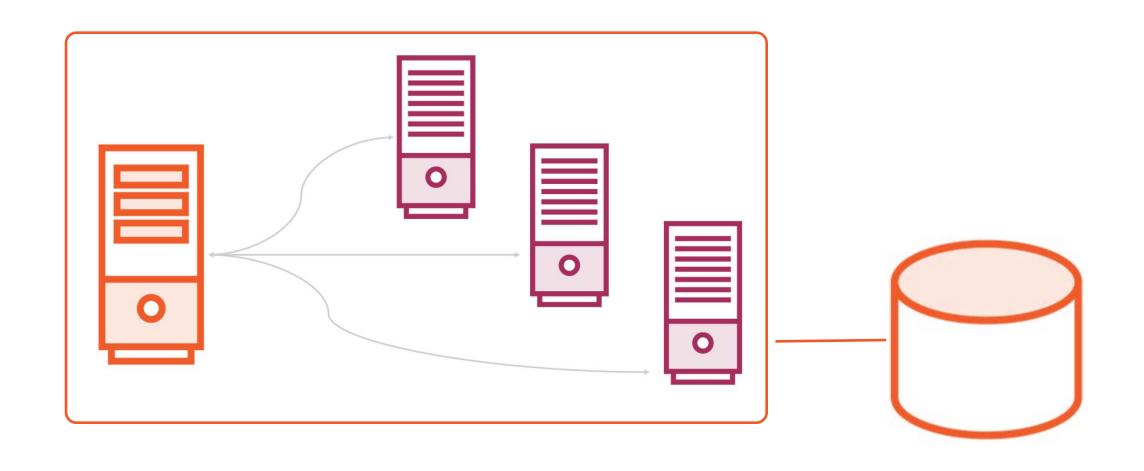
Running Hadoop on Windows

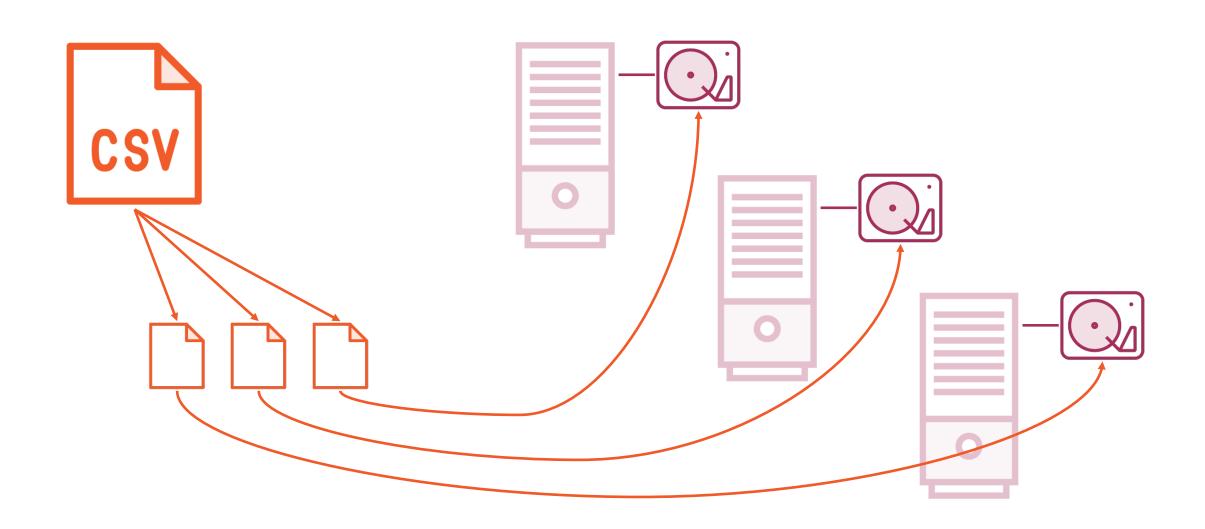


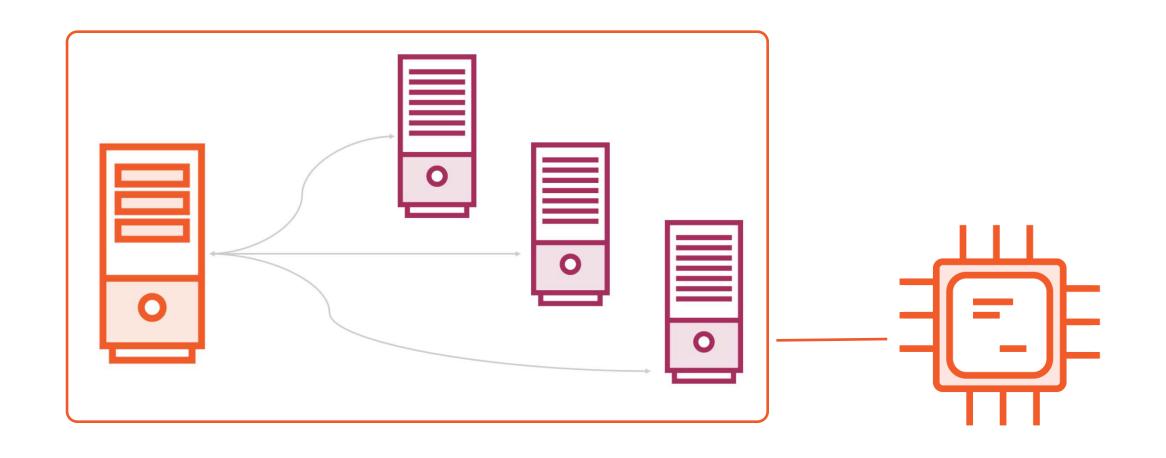
Elton Stoneman SOFTWARE ARCHITECT

@EltonStoneman blog.sixeyed.com

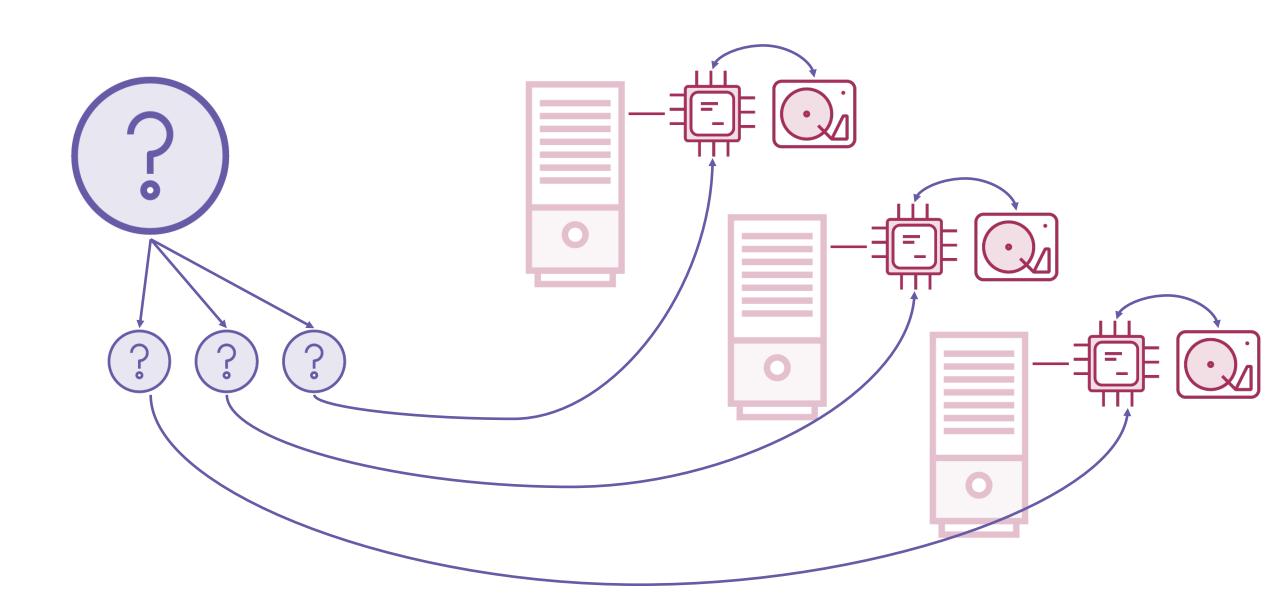


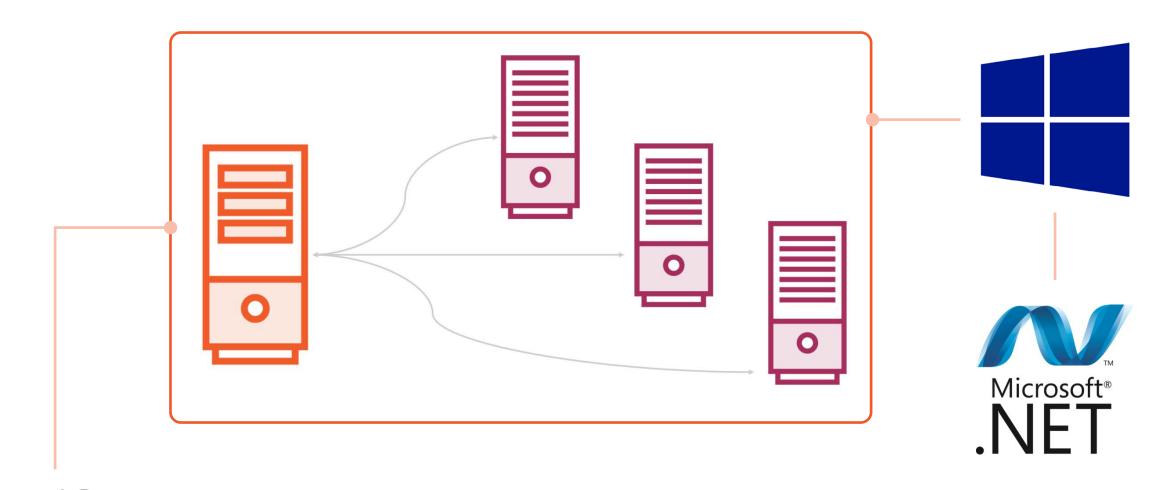
Hadoop Distributed File System





Yet Another Resource Negotiator





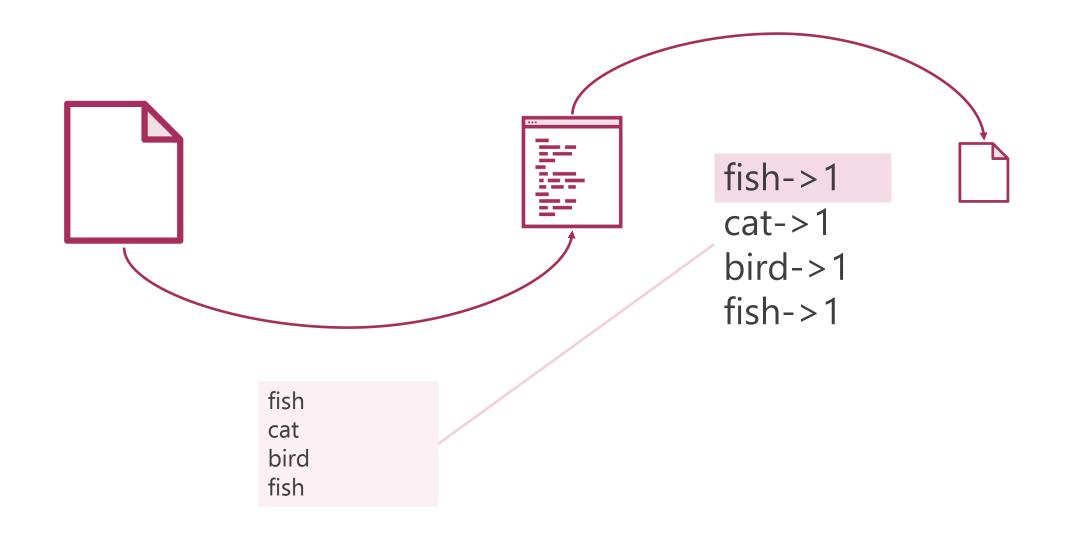


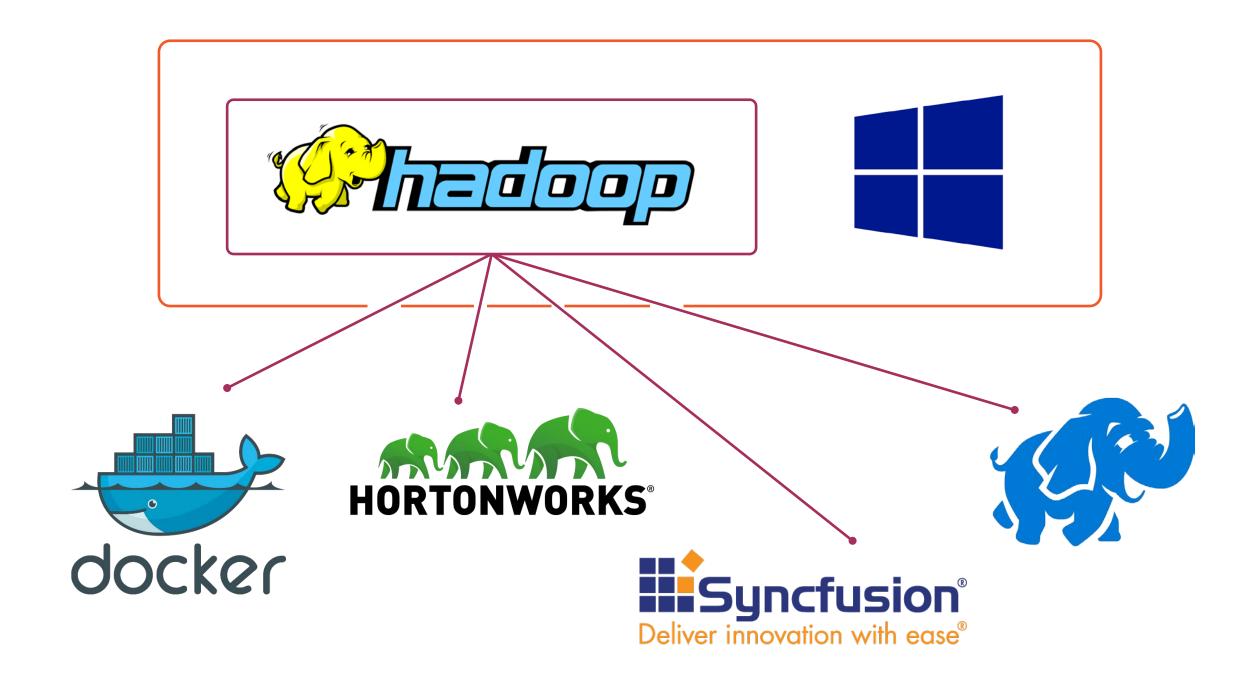


HADOOP WITH .NET POC

- Does Hadoop run well on Windows?
- Can you write queries in .NET?
- What about fast queries in .NET?
- Does the Hadoop ecosystem

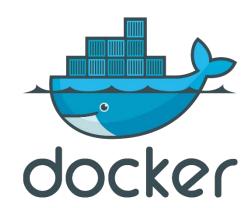
Microsoft?

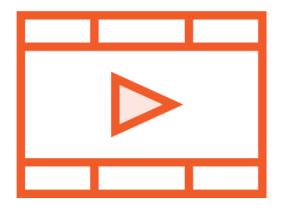










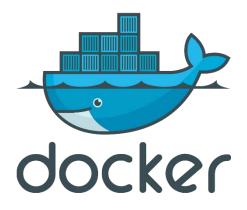


Docker and Containers: The Big Picture



Nigel Poulton

@nigelpoulton nigelpoulton.com



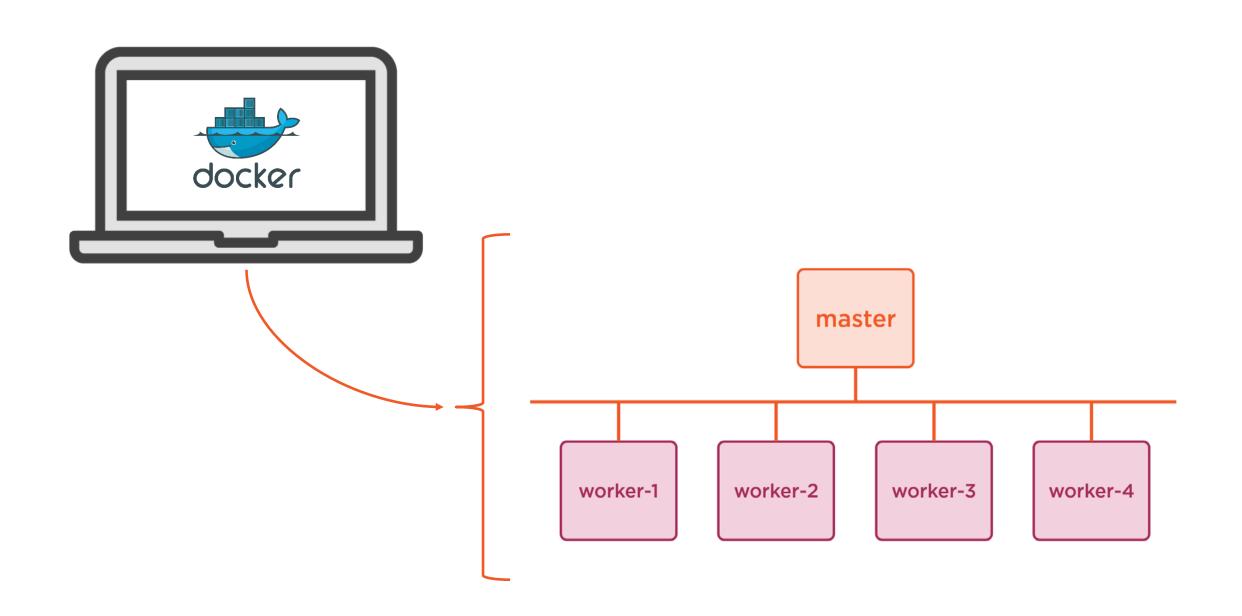
master

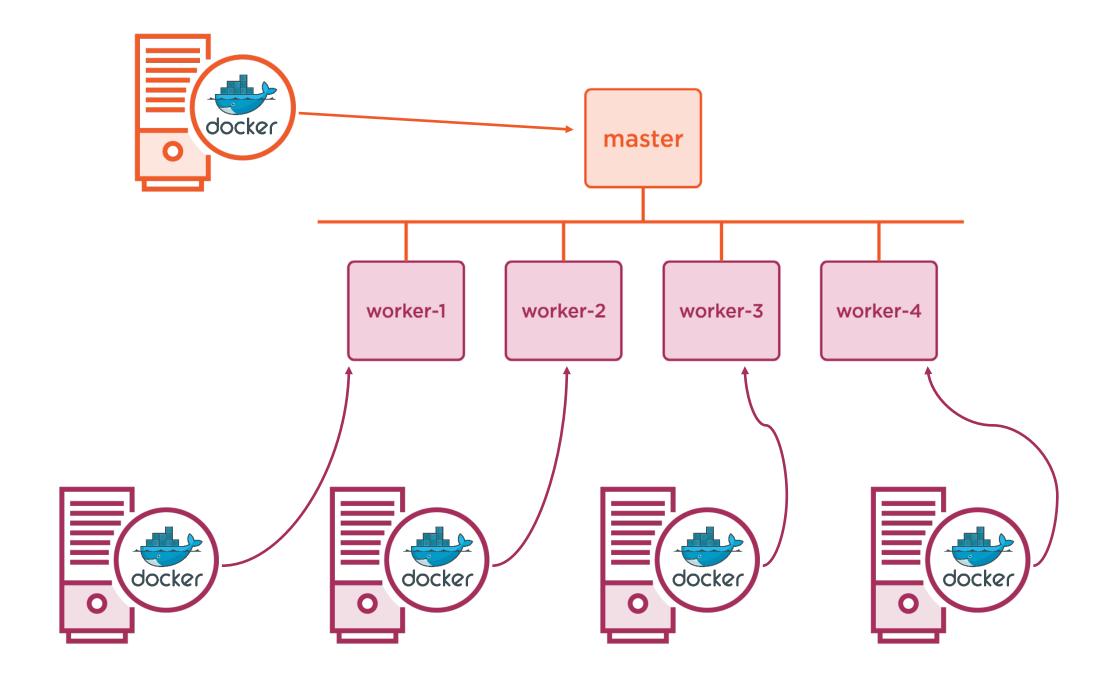
worker-1

worker-2

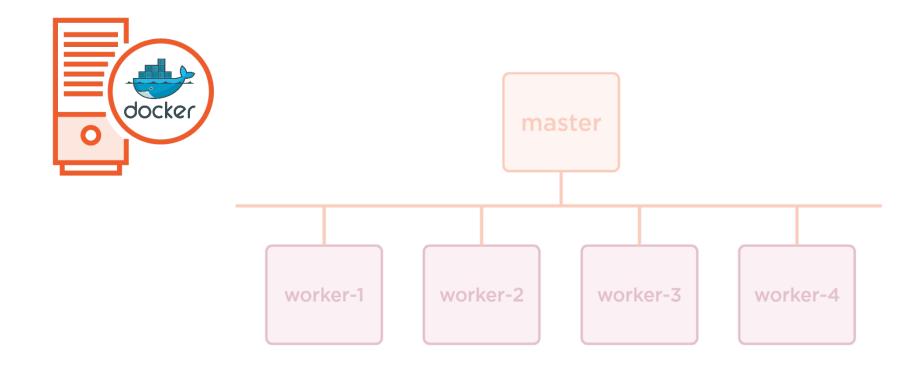
worker-3

worker-4





docker-compose stop



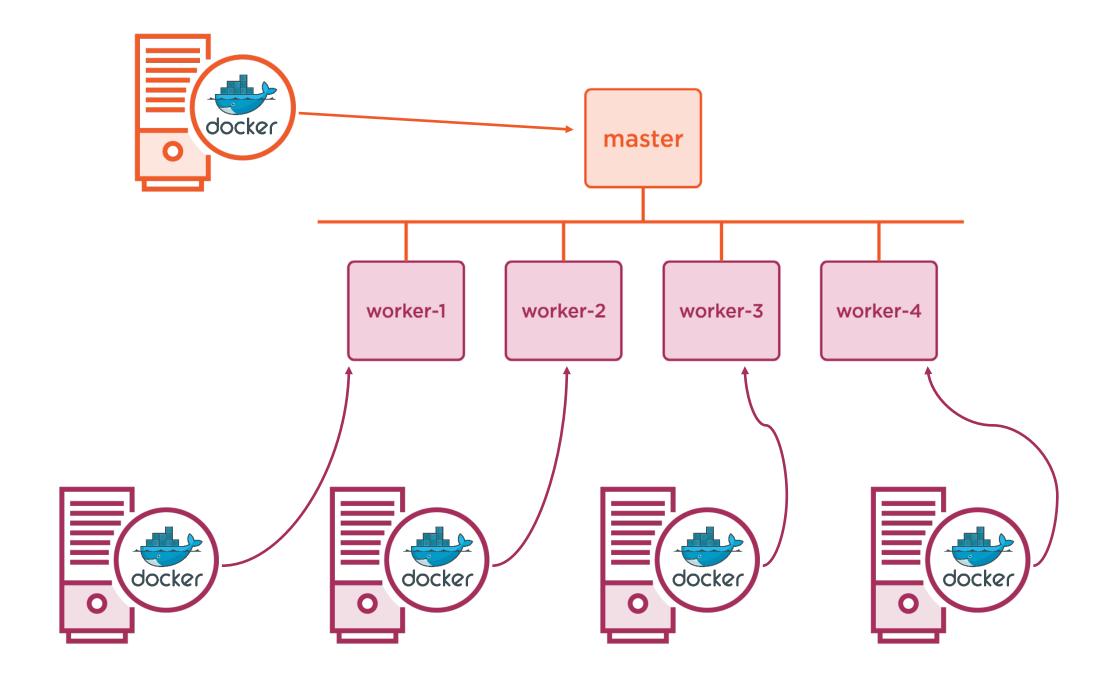




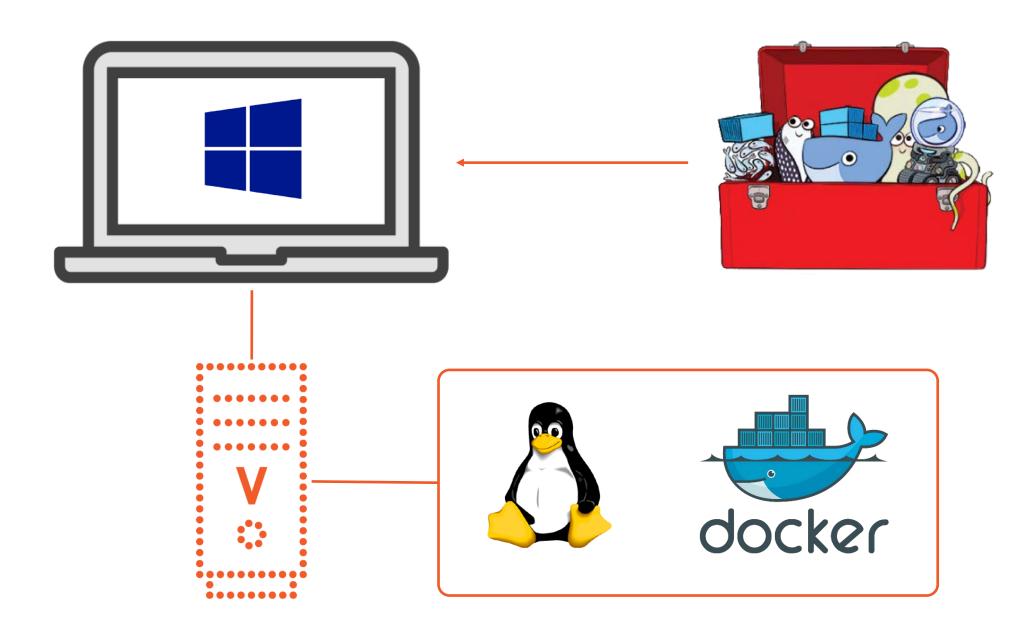


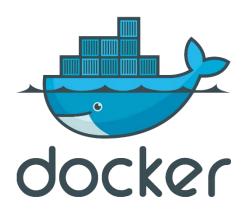


docker-compose **start**









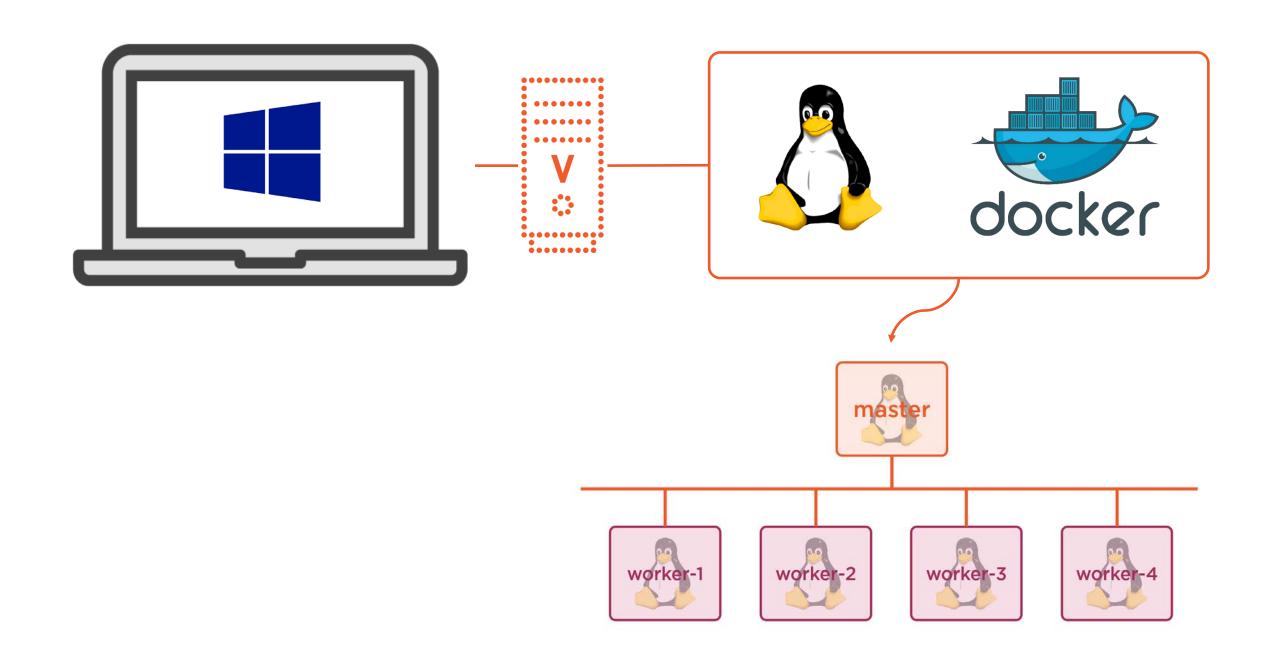




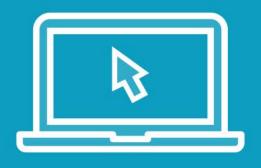






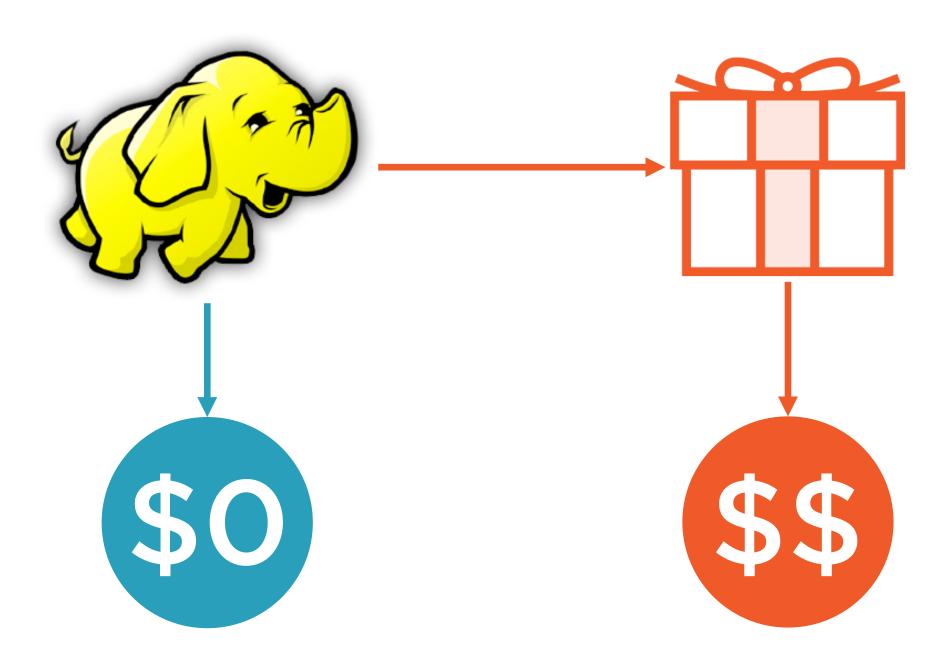


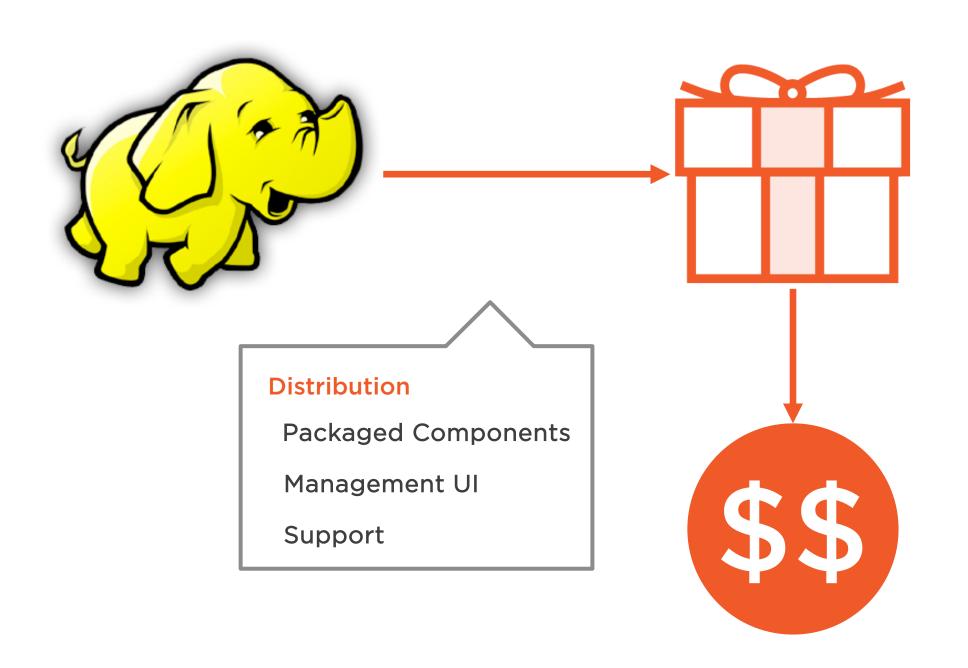
Demo



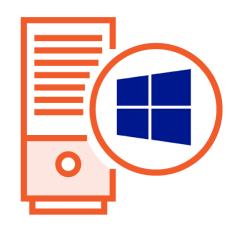
Hadoop in Docker

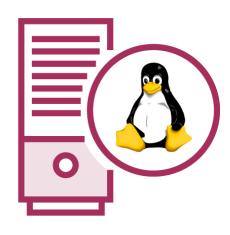
- Starting the cluster
- Connecting to the Master
- Running .NET Core jobs

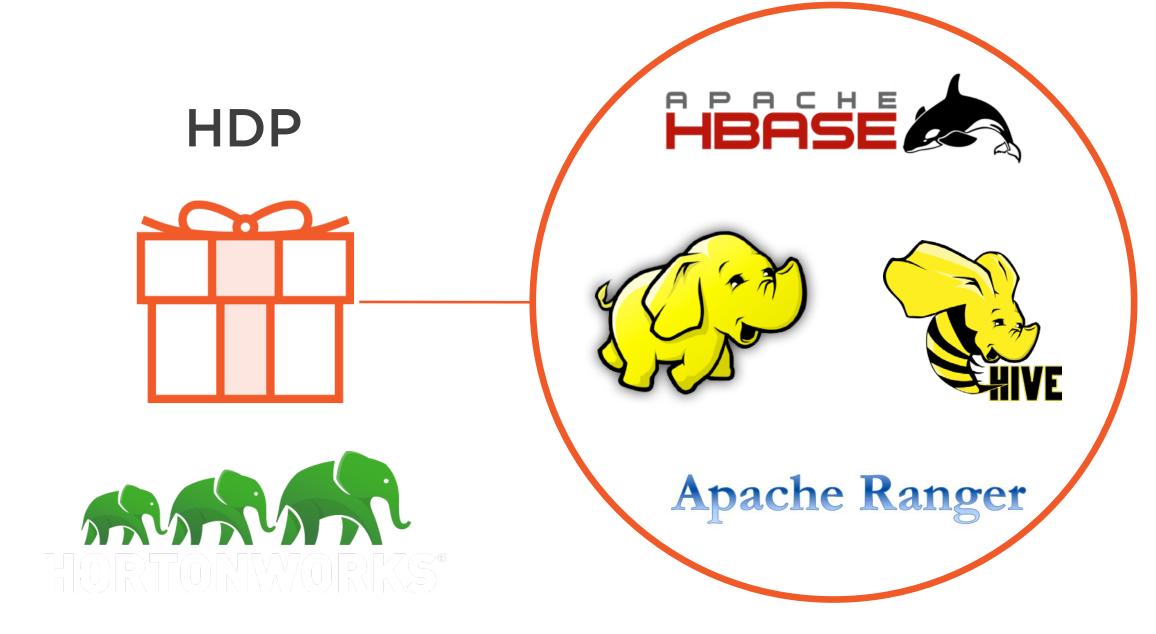












HDP 2.4

Apache



2.7.1

2.7.2



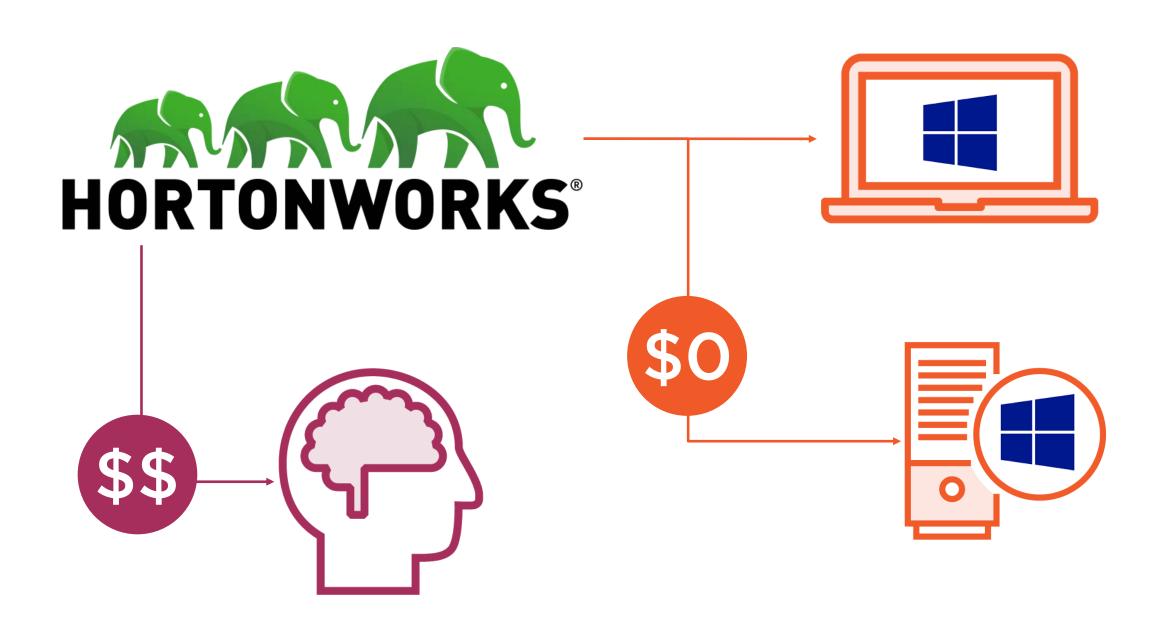
1.2.1

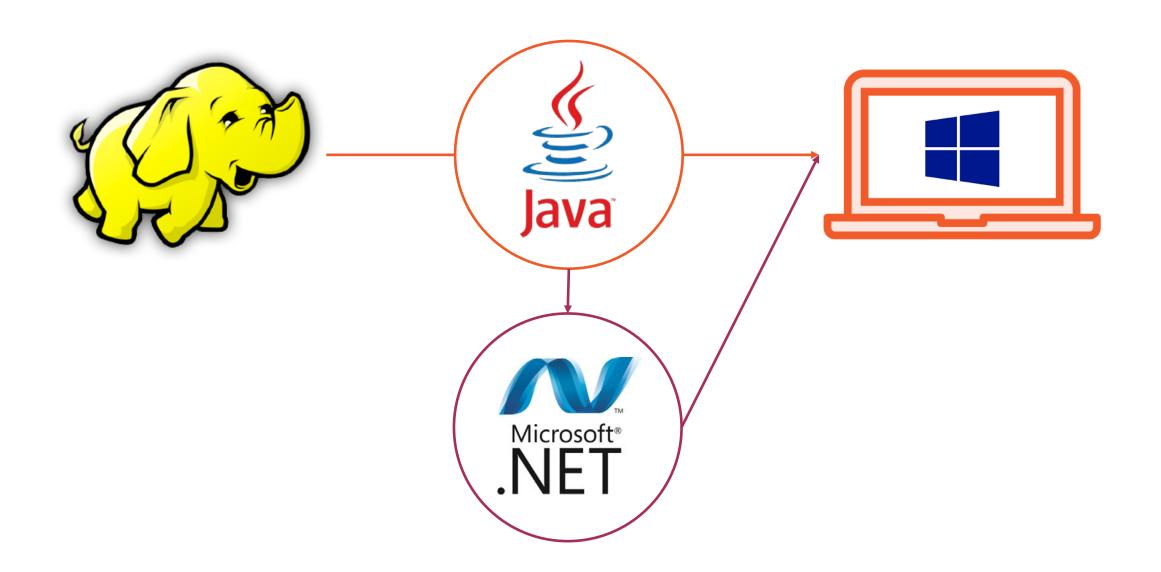
2.0.1



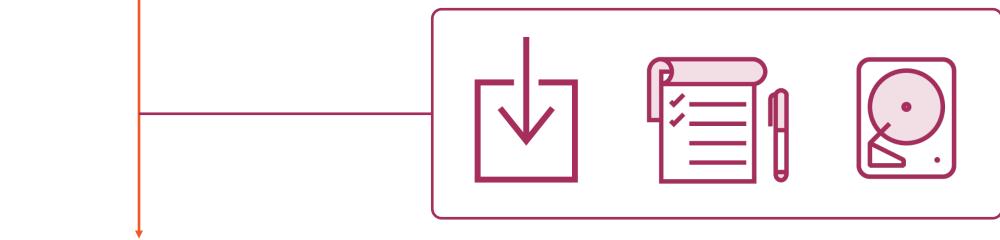
1.6.0

1.6.1

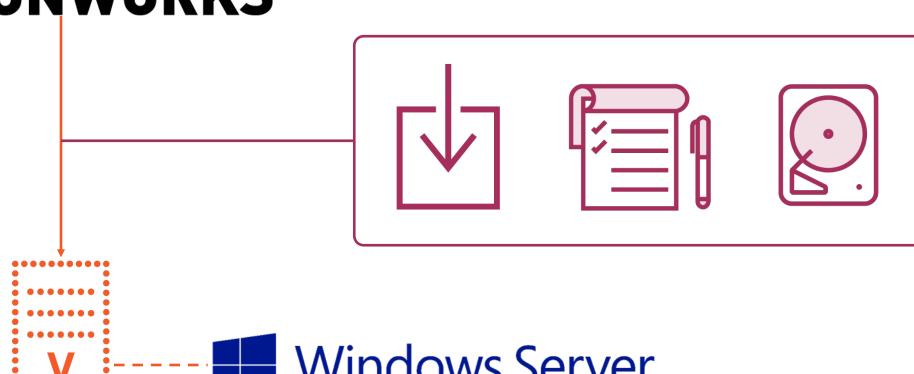














Windows Server

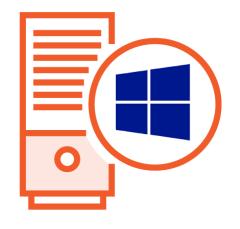
Demo



Hortonworks HDP

- Installing on Windows Server
- Starting Hadoop services
- Running .NET jobs



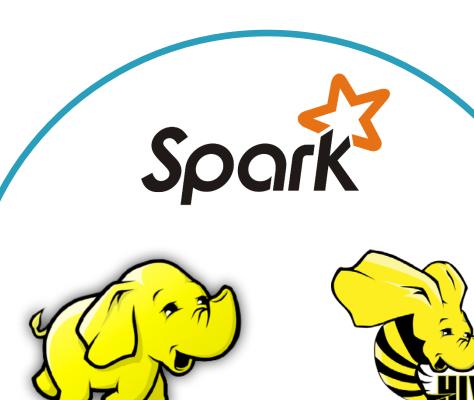




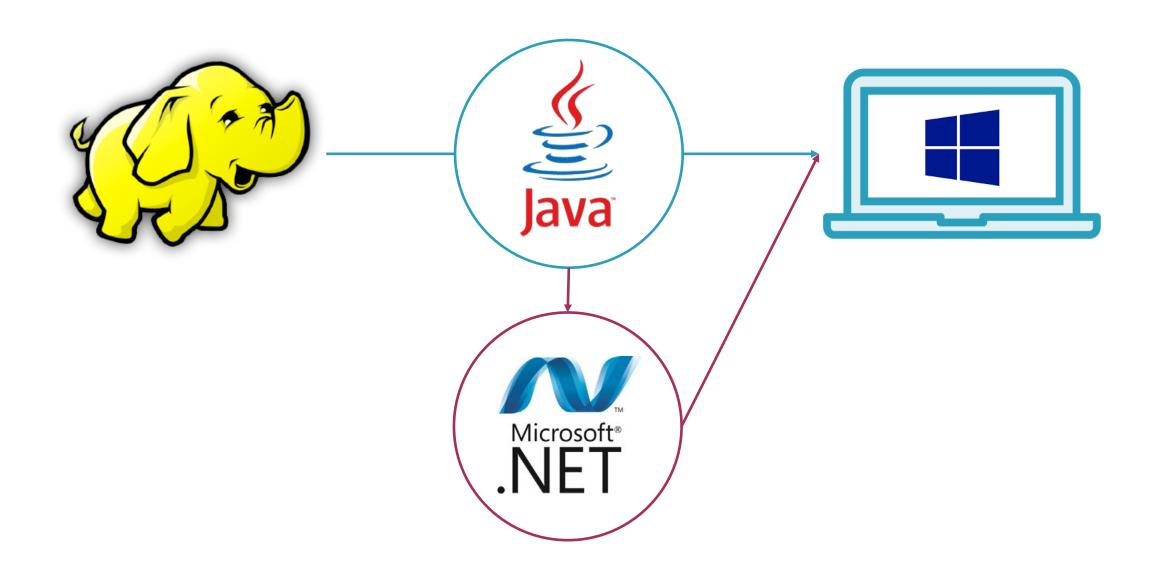
Big Data Platform

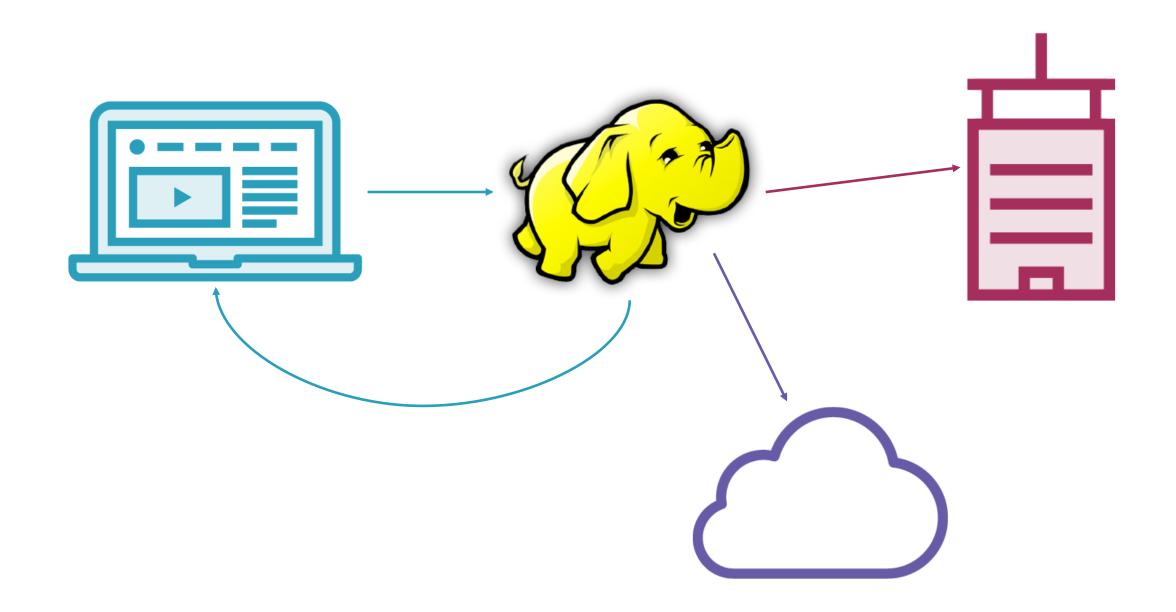


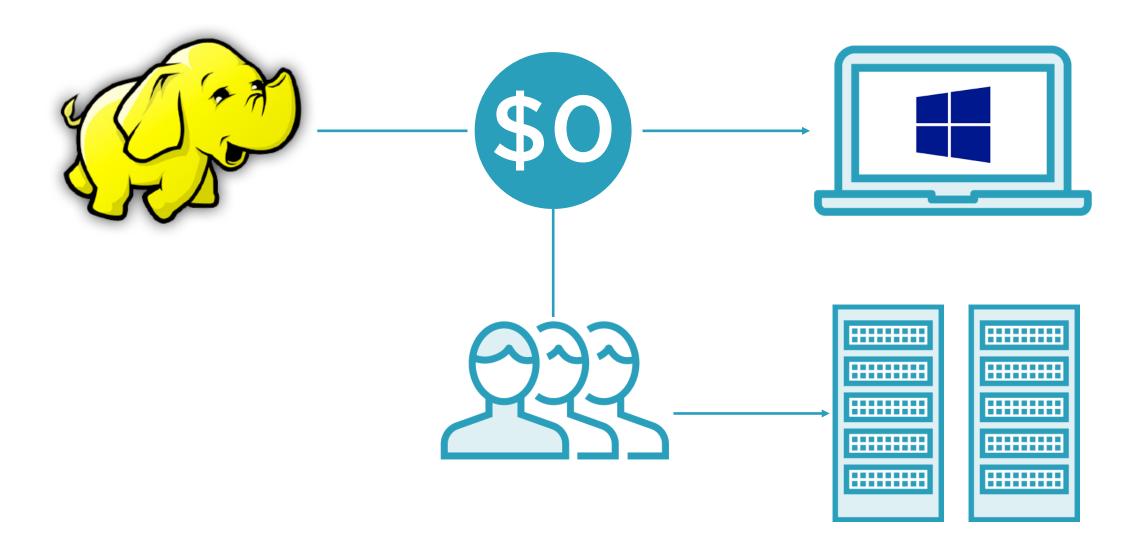










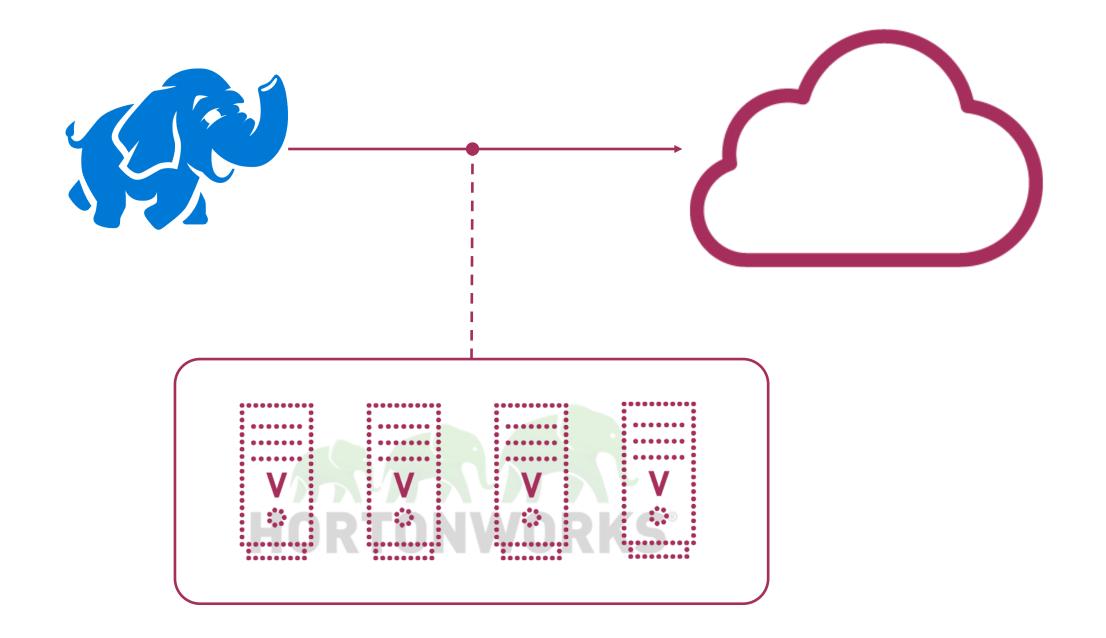


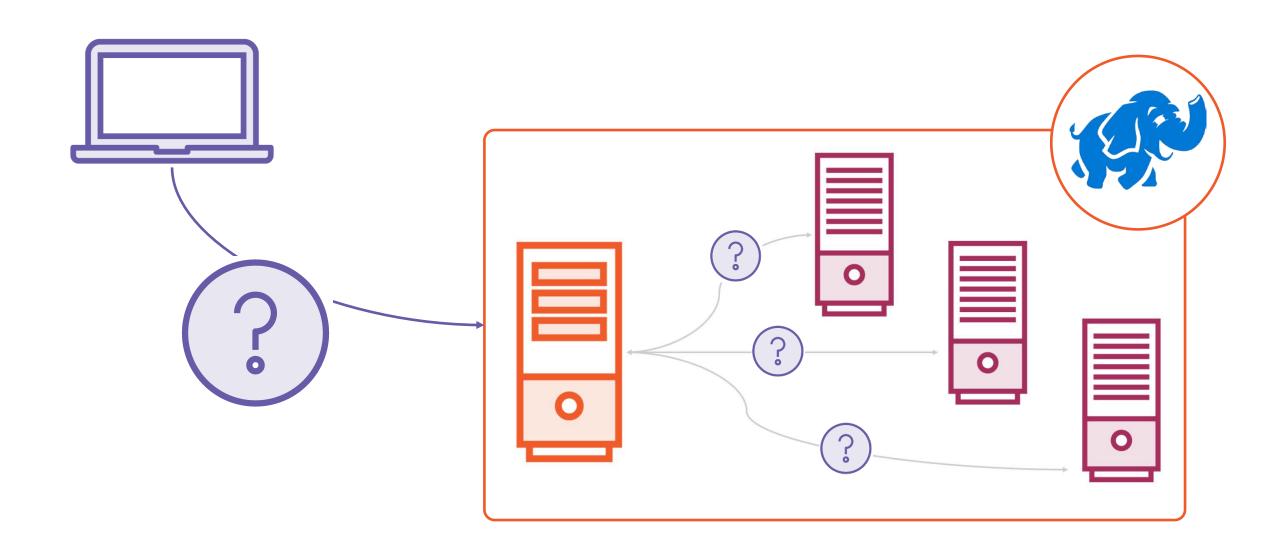
Demo

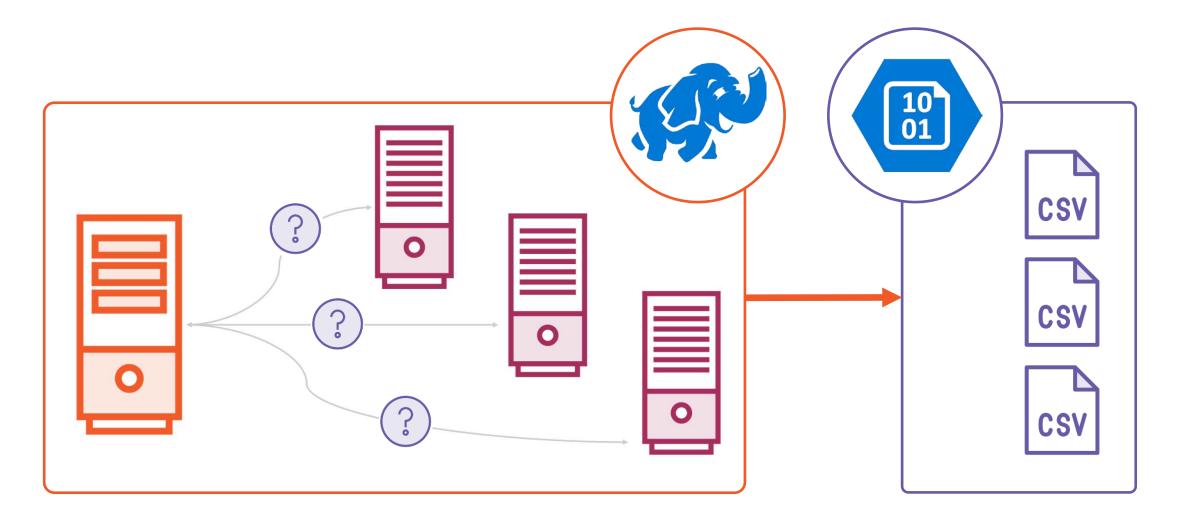


Syncfusion Big Data Platform

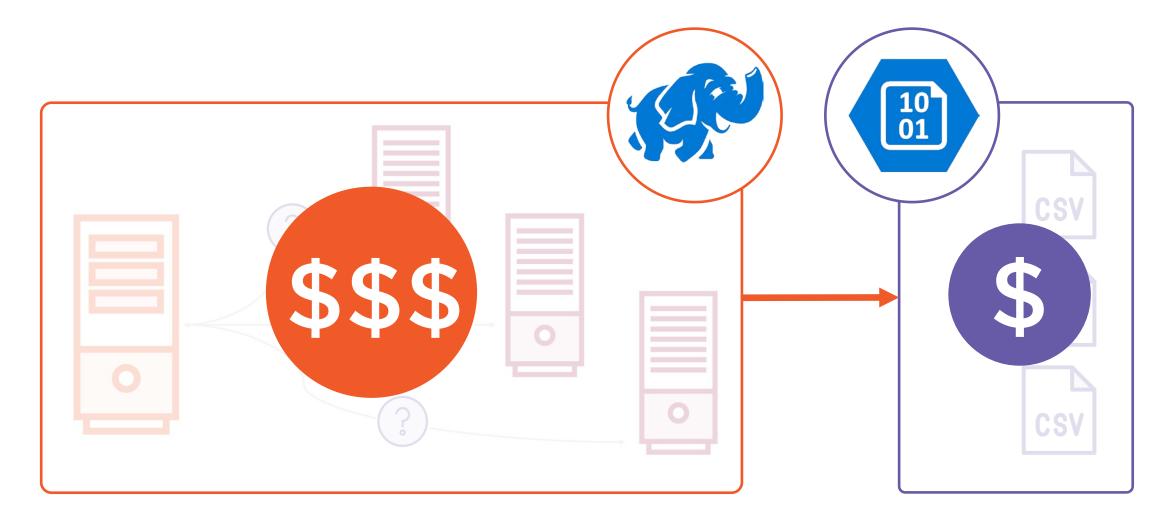
- Installing on Windows 10
- Using the Dashboard
- Running .NET jobs



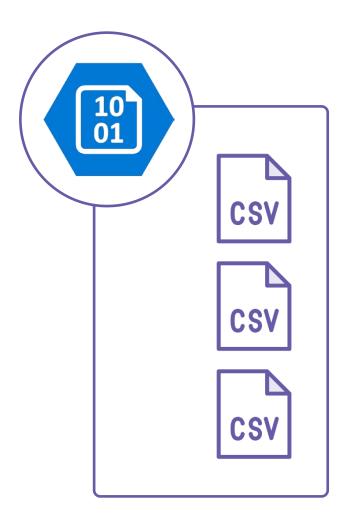


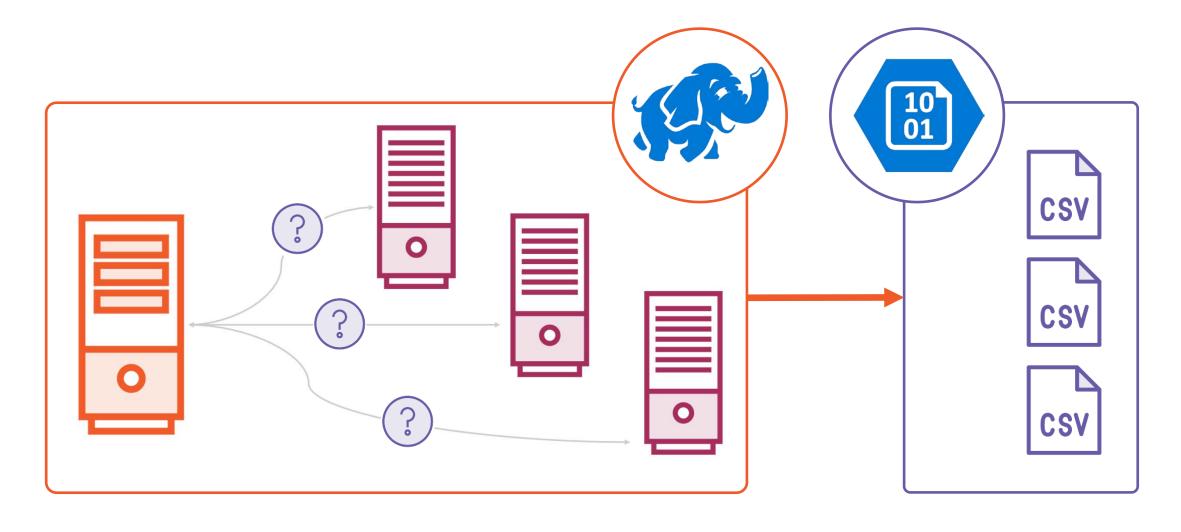


Compute

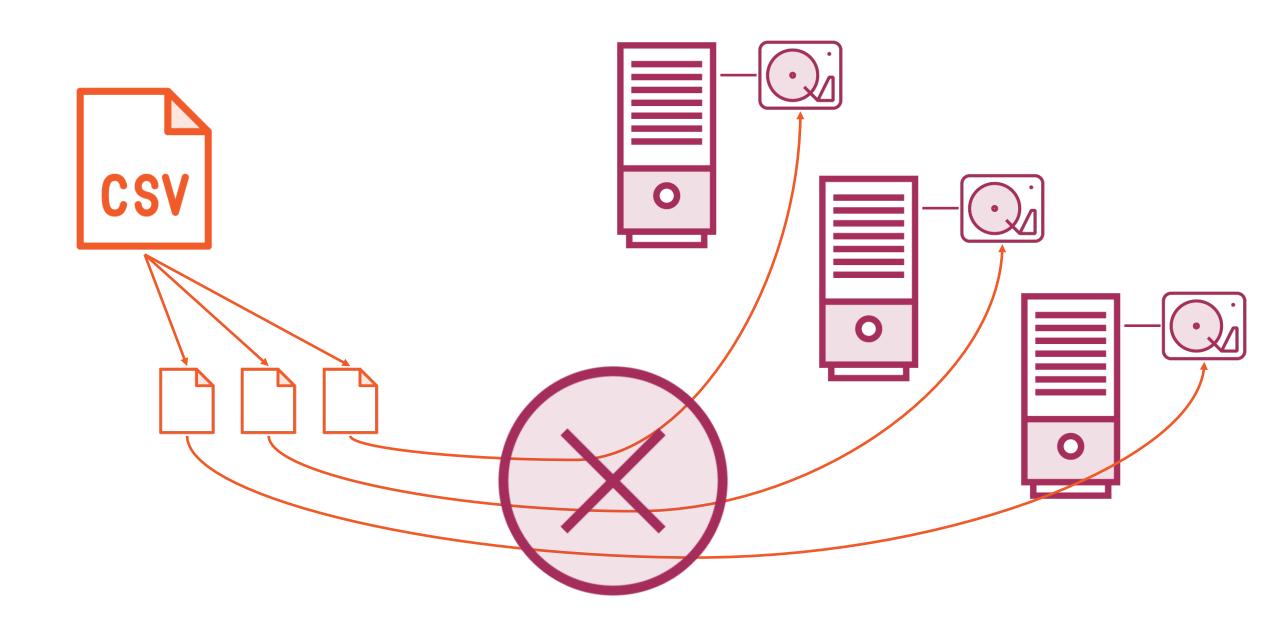


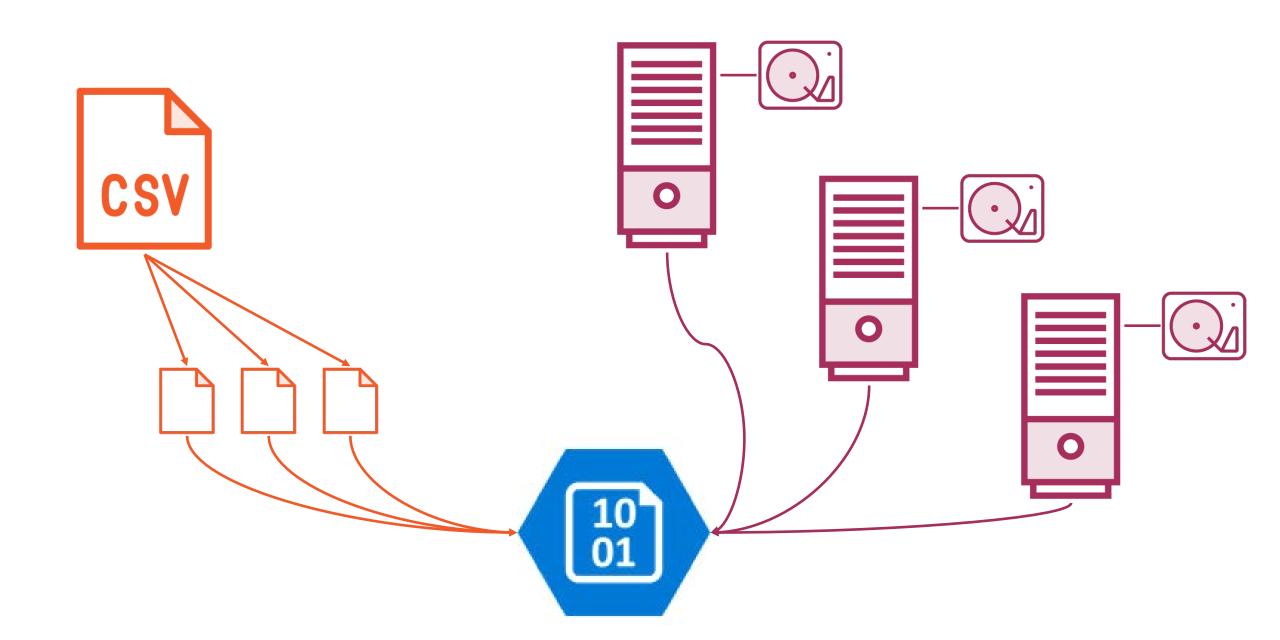
Compute

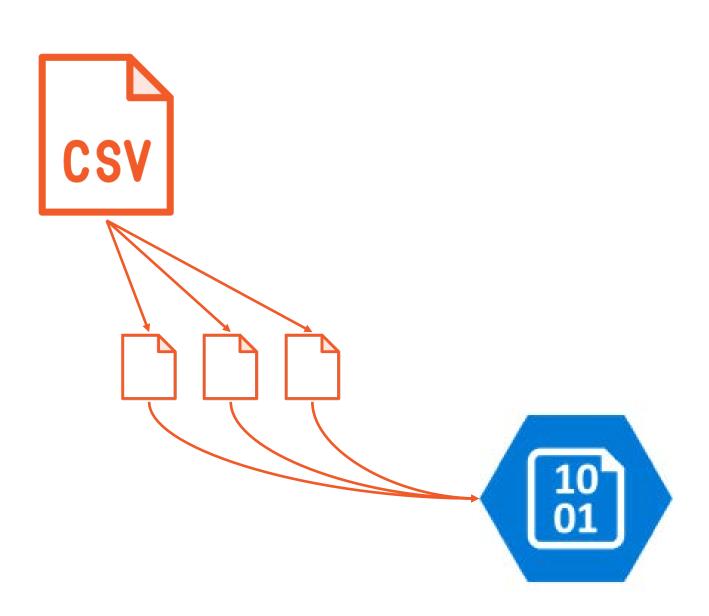


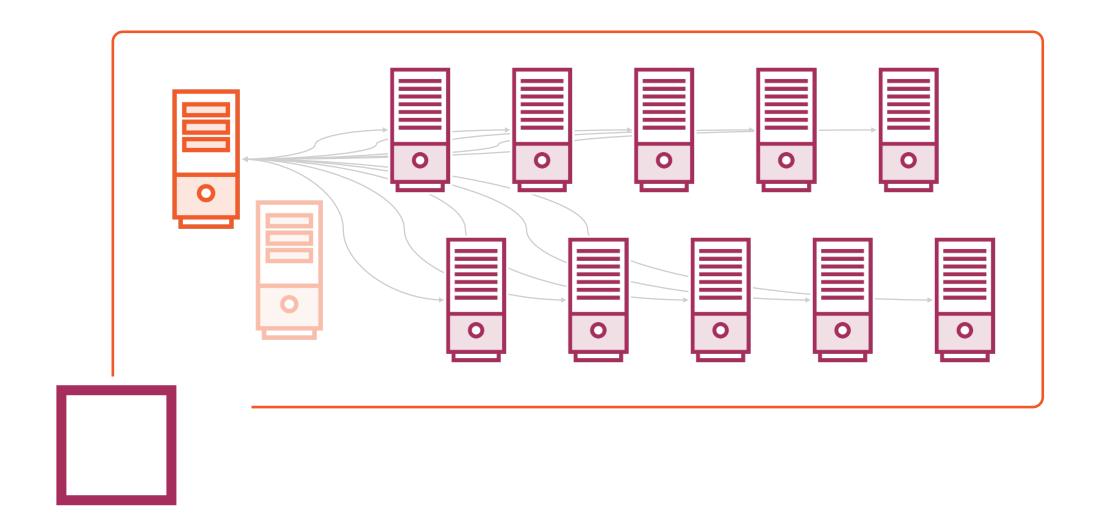


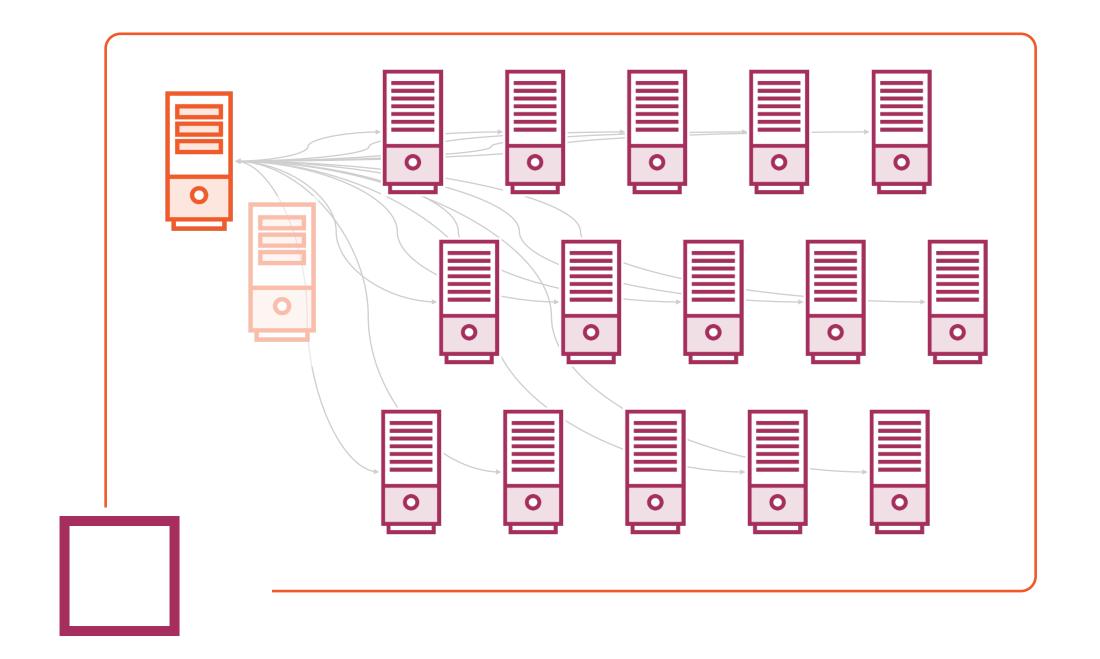
Compute-2

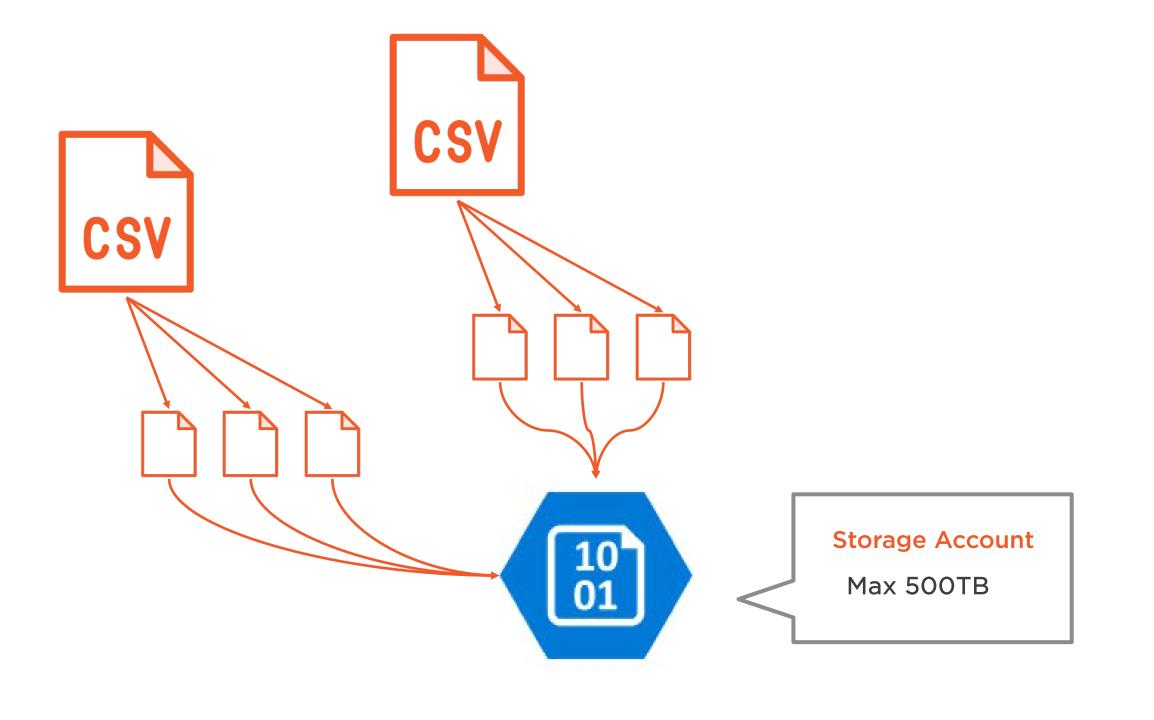


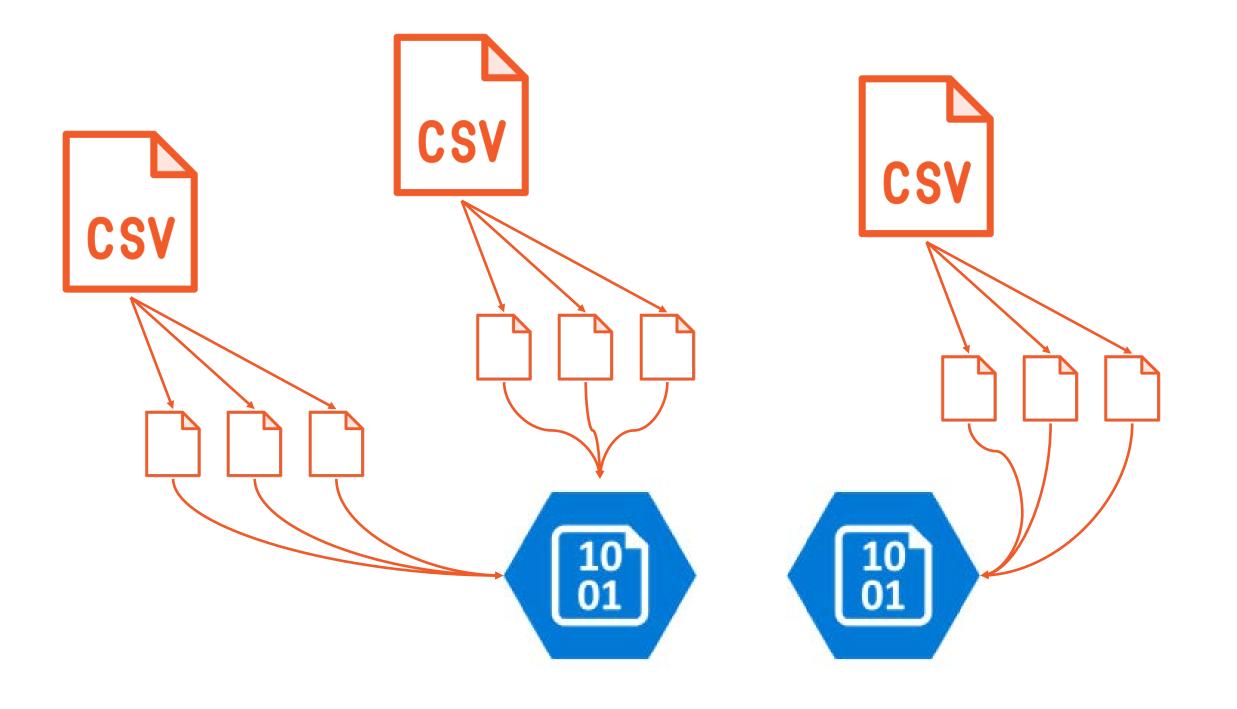


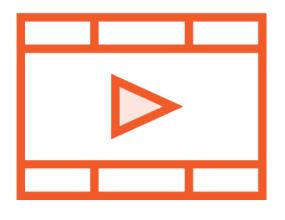










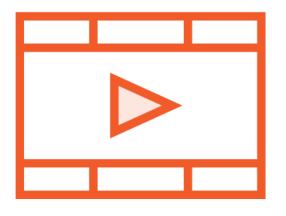


Real World Big Data in Azure



Elton Stoneman

@EltonStoneman blog.sixeyed.com



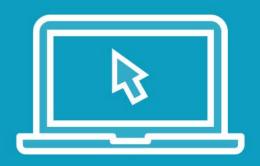
HDInsight Deep Dive: Storm, HBase and Hive



Elton Stoneman

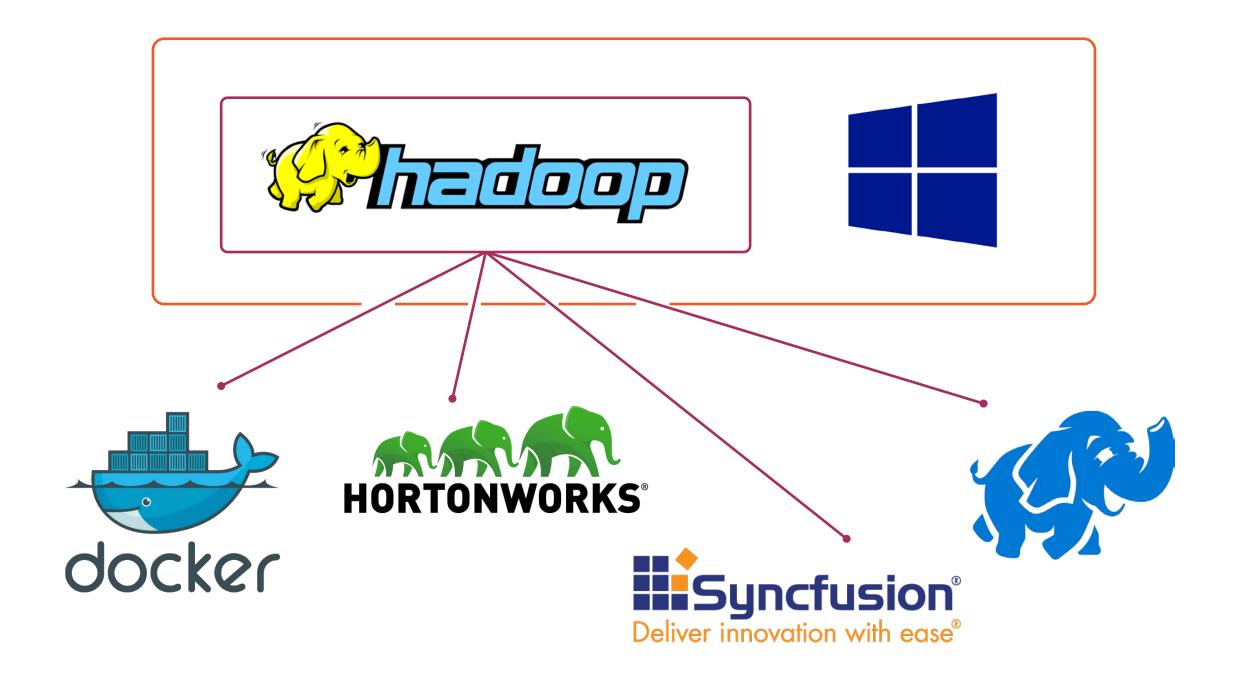
@EltonStoneman blog.sixeyed.com

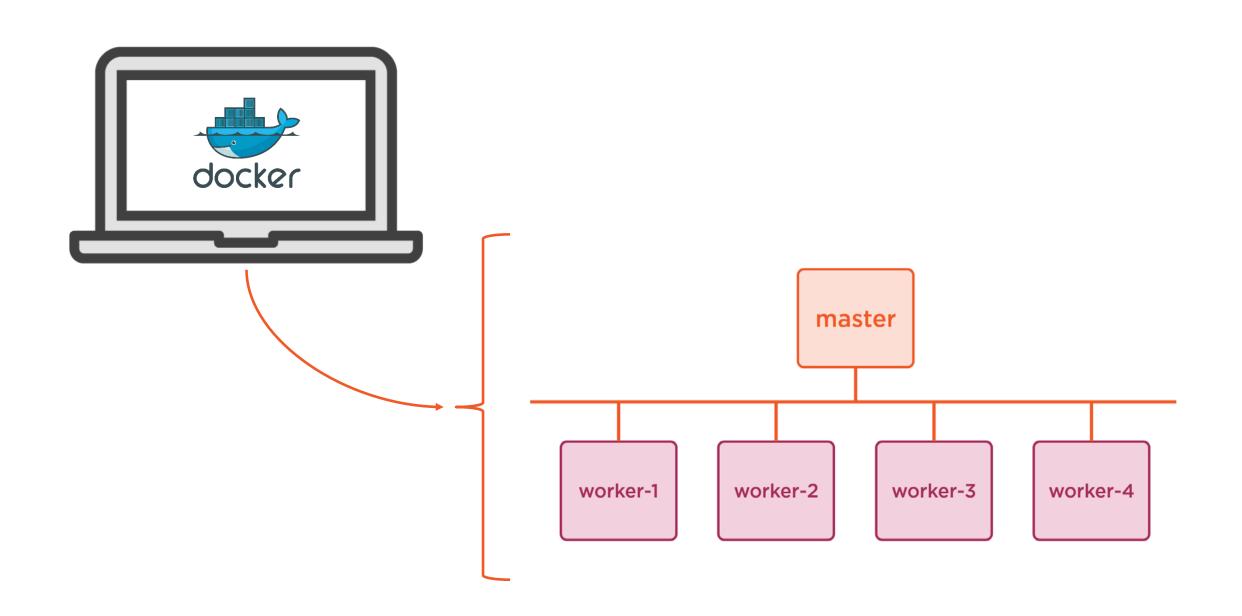
Demo

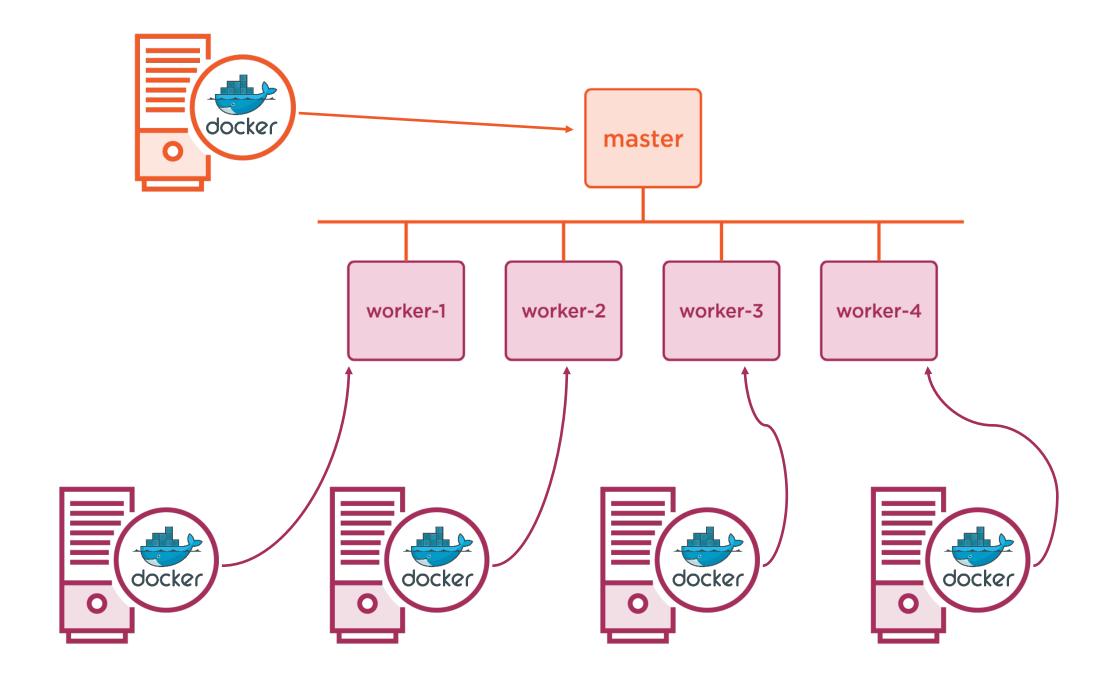


Hadoop on HDInsight

- Creating the cluster
- Uploading data
- Querying with .NET













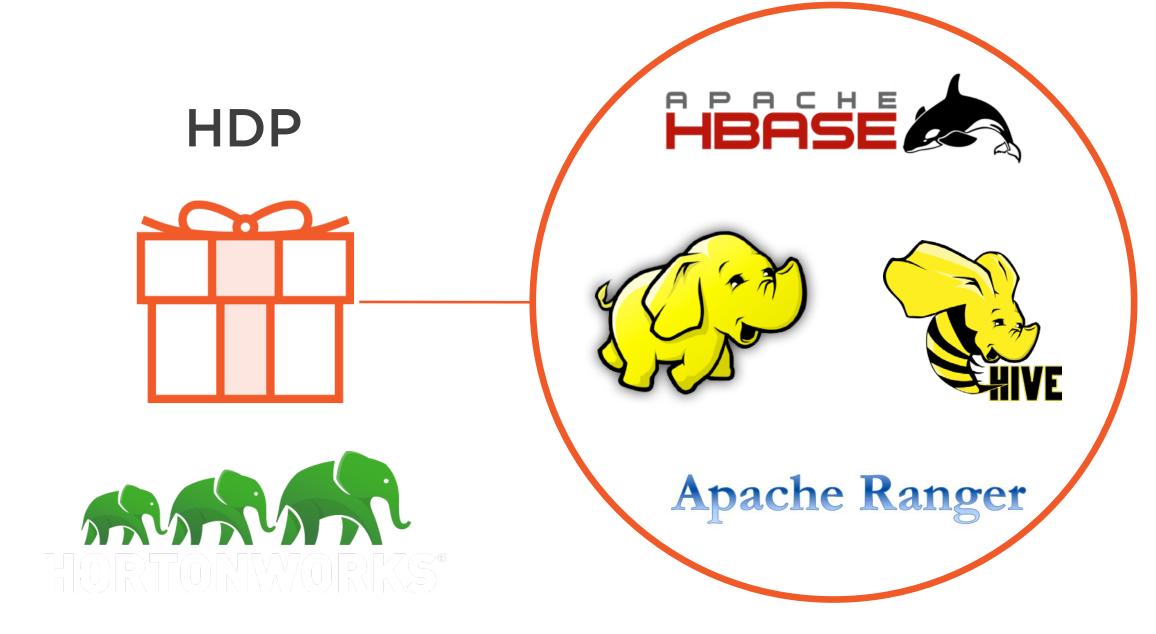
Simple

Not Windows-Native

Pure Hadoop

.NET Core only

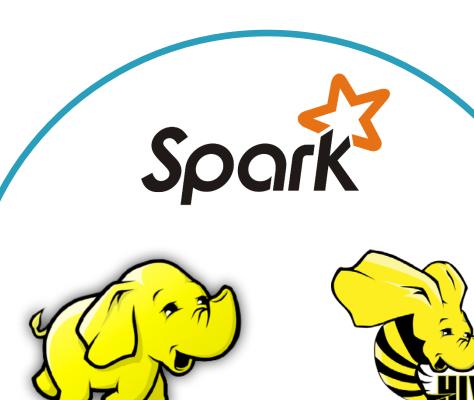
Portable



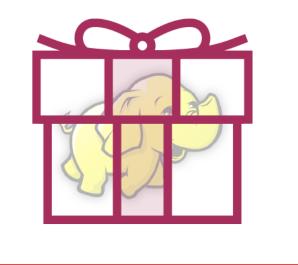
Big Data Platform















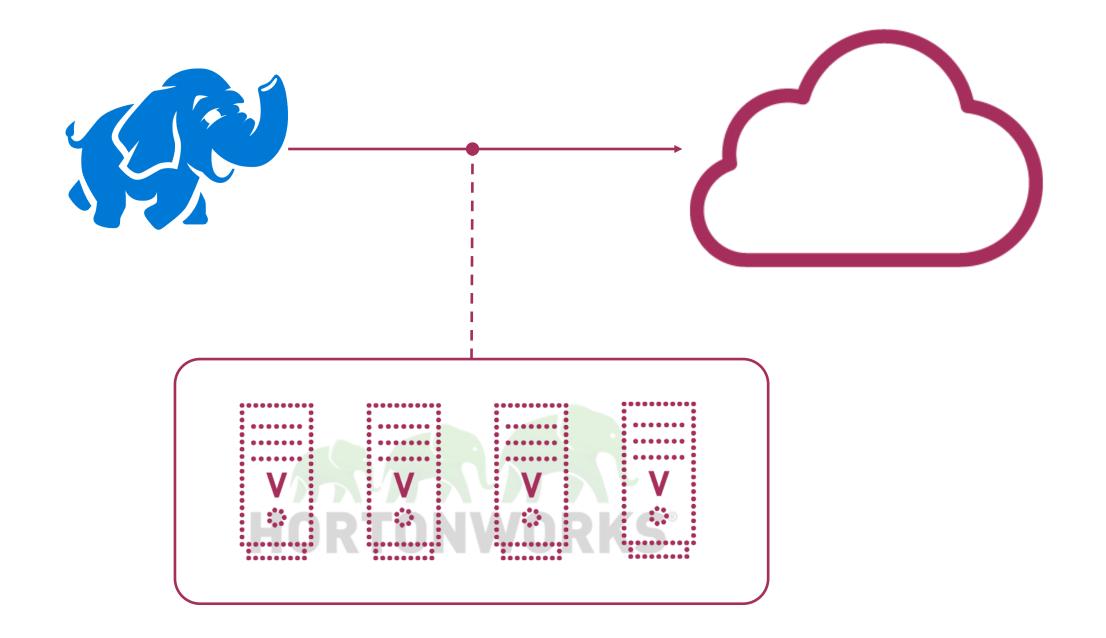
Windows-Native

Complex Setup

Full .NET Framework

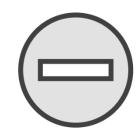
Hardware Investment

Cluster Management









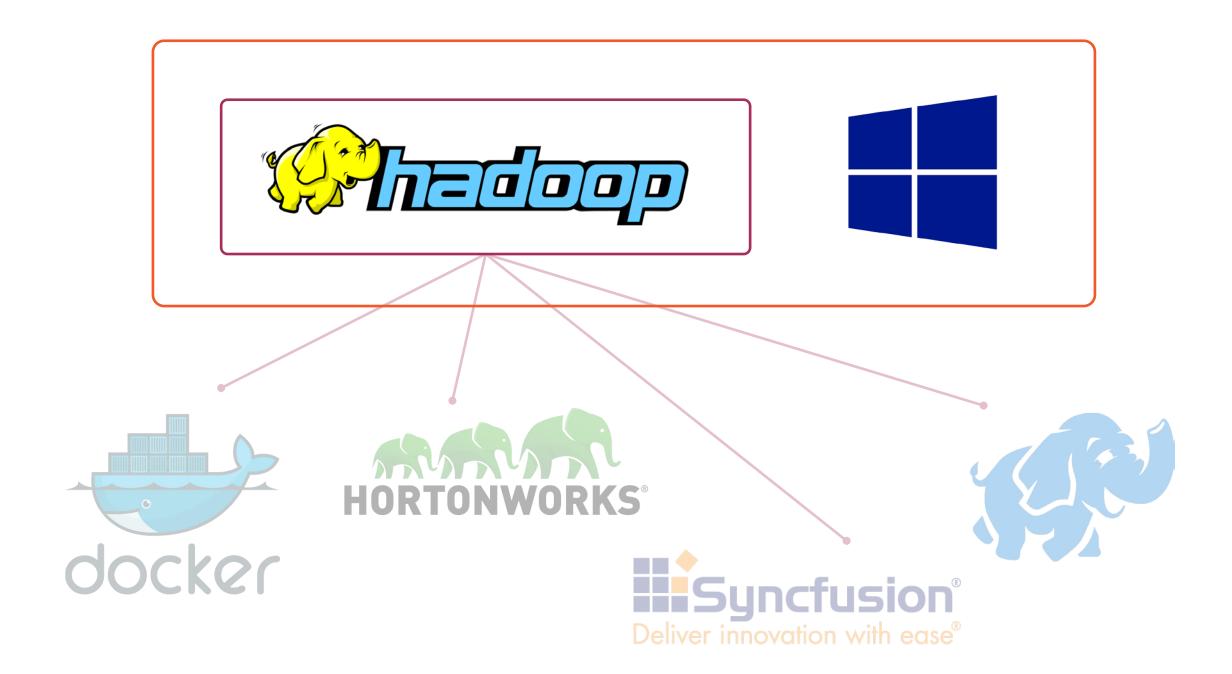
Cheap Storage

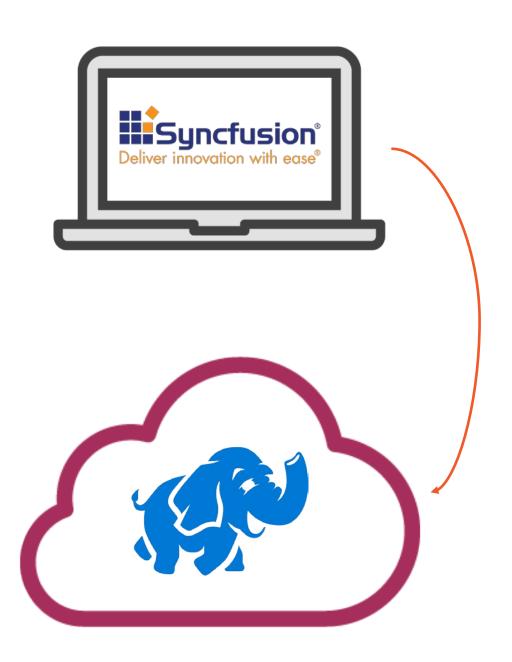
Expensive Compute

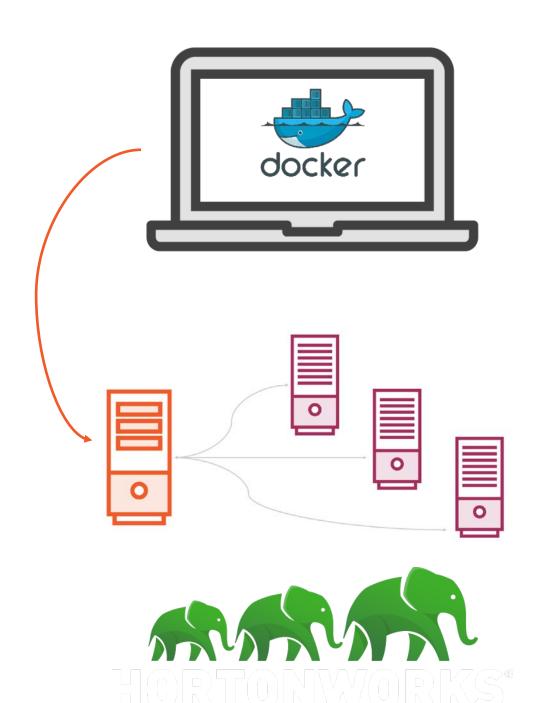
Easy expansion

Latency to Cloud

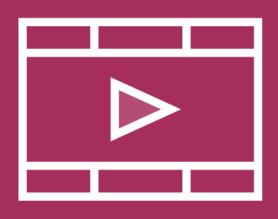
Managed Platform







Coming Next



Working with Hadoop in .NET

- Understanding Hadoop Streaming
- Writing MapReduce in .NET
- Staying portable with .NET Core