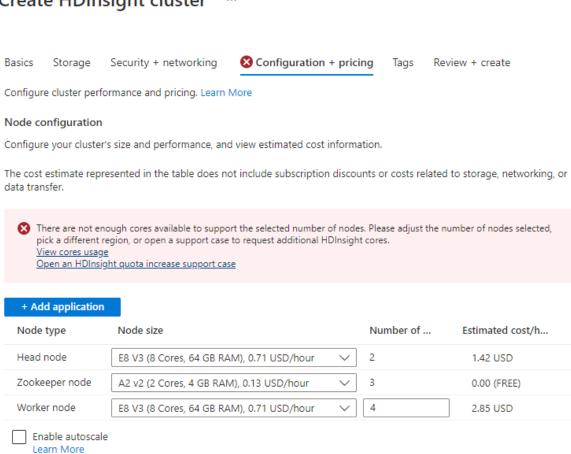
Exercise 1: Create a Spark Cluster on HDInsight

Error when selecting 4 worker node:

Home > Create a resource >

Create HDInsight cluster



Total estimated cost/hour 4.27 USD

Script actions

Use script actions to run custom PowerShell or Bash scripts on cluster nodes during cluster provisioning. Learn about script actions

Create HDInsight cluster

Basics Storage Security + networking Configuration + pricing Tags Review + create

Configure cluster performance and pricing. Learn More

Node configuration

Configure your cluster's size and performance, and view estimated cost information.

The cost estimate represented in the table does not include subscription discounts or costs related to storage, networking, or data transfer.

i This configuration will use 11 of 12 available cores in the West US 3 region.

View cores usage

Open an HDInsight quota increase support case

+ Add application

Node type	Node size		Number of	Estimated cost/h
Head node	E2 V3 (2 Cores, 16 GB RAM), 0.18 USD/hour	~	2	0.36 USD
Zookeeper node	A1 v2 (1 Cores, 2 GB RAM), 0.06 USD/hour	~	3	0.18 USD
Worker node	A2m v2 (2 Cores, 16 GB RAM), 0.18 USD/hour	~	2 🗸	0.37 USD

Enable autoscale Learn More

Total estimated cost/hour 0.90 USD

Script actions

Use script actions to run custom PowerShell or Bash scripts on cluster nodes during cluster provisioning. Learn about script actions

+ Add script action

Create HDInsight cluster

Basics	Storage	Security + netwo	rking Config	uration + pricing	Tags	Review + create	
	-	ge accounts that will nts, if needed.	be used for the o	luster's logs, job inpu	ıt, and job	output. Configure the clus	ter's
Primary	storage						
Select or	r create a stor	age account that wil	be the default lo	cation for cluster log	s and oth	er output.	
Primary storage type *		Azure Storage		~			
Selection	n method *(D	Select from	n list Use access	s key		
Primary storage account *		(New) sparkla	bhdistorage			~	
			Create new				
Container * (i)		D	sparklab-2022-05-20t04-58-00-930z				
Data La	ke Storage G	Gen1					
		cluster to access Da sen service principal		Gen1. The cluster will	be able to	access any Data Lake Stora	age Gen1
Data Lake Storage Gen1 access Configure access settings							
Additio	nal Azure Sto	orage					
Link add	litional Azure	Storage accounts to	the cluster.				
Accou	unt name						

Custom Ambari DB

Add Azure Storage

Use an external Ambari database for greater flexibility, control, and customization. Learn More

Create HDInsight cluster



Basics Storage Security + networking Configuration + pricing Tags Review + create

Spark 3.1 (HDI 4.0) 0.90 USD Total estimated cost/hour

This estimate does not include subscription discounts or costs related to storage,

networking, or data transfer.

Basics

Subscription Azure subscription 1
Resource group (new) spark-on-hdinsight

 Region
 West US 3

 Cluster name
 (new) sparklab

 Cluster type
 Spark 3.1 (HDI 4.0)

Cluster login username admin
Secure Shell (SSH) username sshuser
Use cluster login password for SSH Enabled

Security + networking

Minimum TLS version 1.2

Resource provider connection Inbound

Encryption at rest Disabled

Encryption in transit Disabled

Encryption at host on temp data disk Disabled

Storage

Primary storage type Azure Storage
Primary storage account (new) hddisk

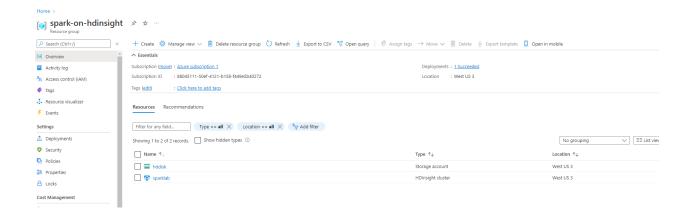
Container sparklab-2022-05-20t04-58-00-930z

Create

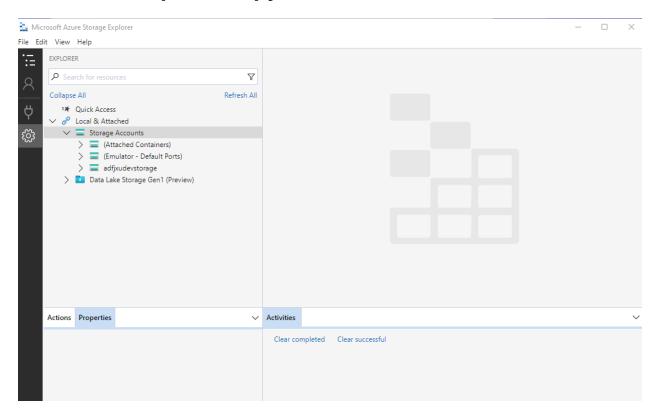
« Previous

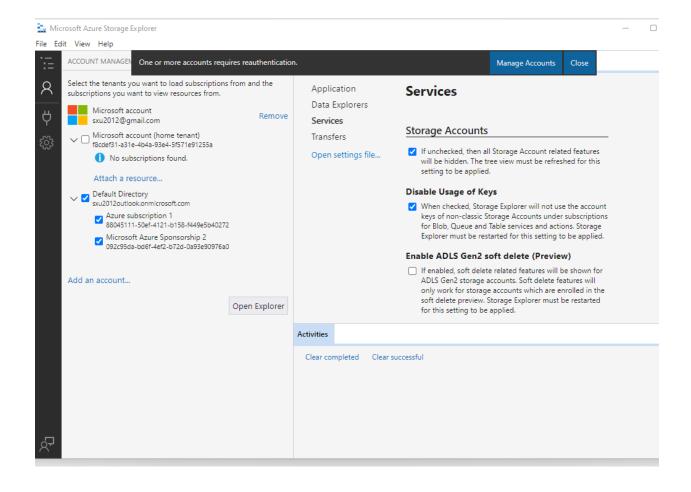
Next

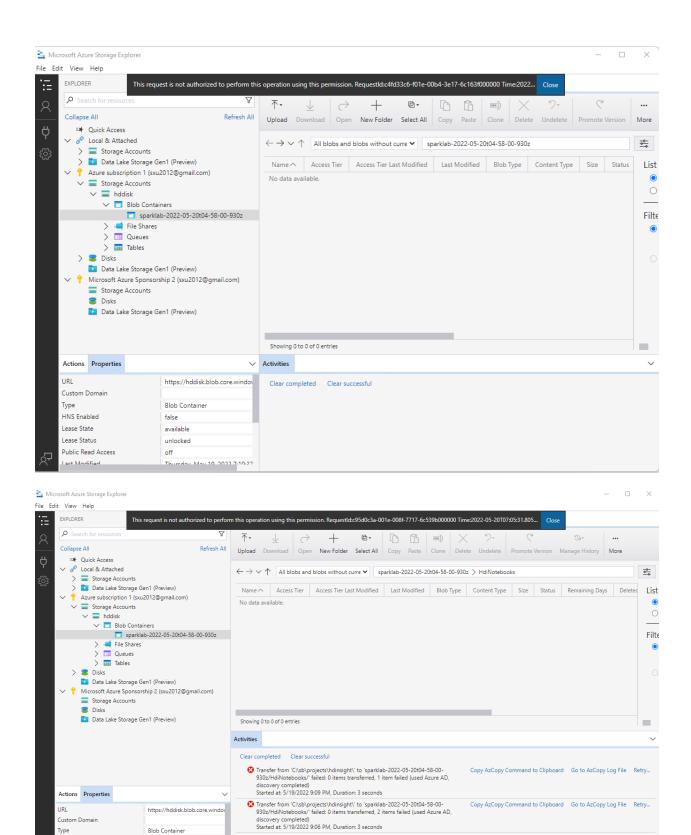
Download a template for automation



Exercise 2: Upload Jupyter Notebook to the cluster







HNS Enabled

Lease State

Lease Status

Public Read Access

art Modified

false

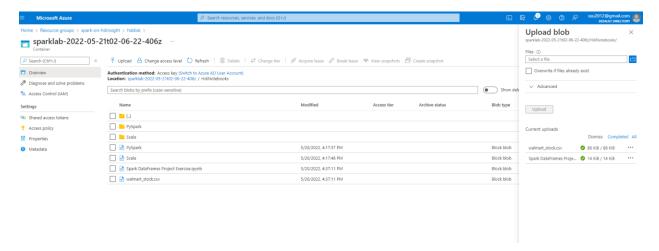
off

availabl

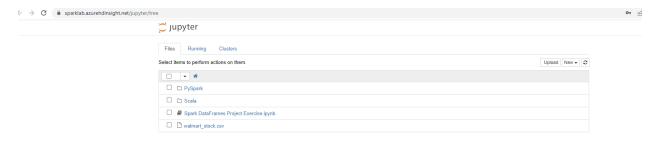
unlocked

Thursday May 10, 2022 7-10-27

My Microsoft account seems to have some trouble, according to my mentor. So I uploaded the files using the web interface on Azure instead of the Storage Explorer



Exercise 3: Work with Jupyter Notebooks



Exercise 4: Remove the HDInsight Spark cluster

