

Inbox (260) - kamal.nandan@outlook.com Syllabus - MBD-EN2017 XPath Examples Basics - Microsoft Azure

Secure | https://portal.azure.com/#create/Microsoft.HDInsightCluster

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Microsoft Azure New > HDInsight > Basics

HDInsight by Microsoft

Quick create Custom (size, settings, apps)

1 Basics Configure basic settings >

2 Storage Set storage settings >

3 Summary Confirm configurations >

This cluster may take up to 20 minutes to create.

* Cluster name * Subscription * Cluster type * Cluster login username * Cluster login password Secure Shell (SSH) username Use same password as cluster login

Next

IE-Lab1(1).zip OBS-Studio-21.0.1....exe screen_recorder_s...exe Canceled Show all

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Microsoft Azure New > HDInsight > Basics > Cluster configuration

Basics Configure basic settings >

Storage Set storage settings >

Summary Confirm configurations >

This cluster may take up to 20 minutes to create.

* Cluster name * Subscription * Cluster type * Operating system * Version

Enterprise Security Package

Hadoop : Petabyte-scale processing with Hadoop components like MapReduce, Hive (SQL on Hadoop), Pig, Sqoop and Oozie. If you are looking for Hive using LLAP, please create an Interactive Query cluster.

Features

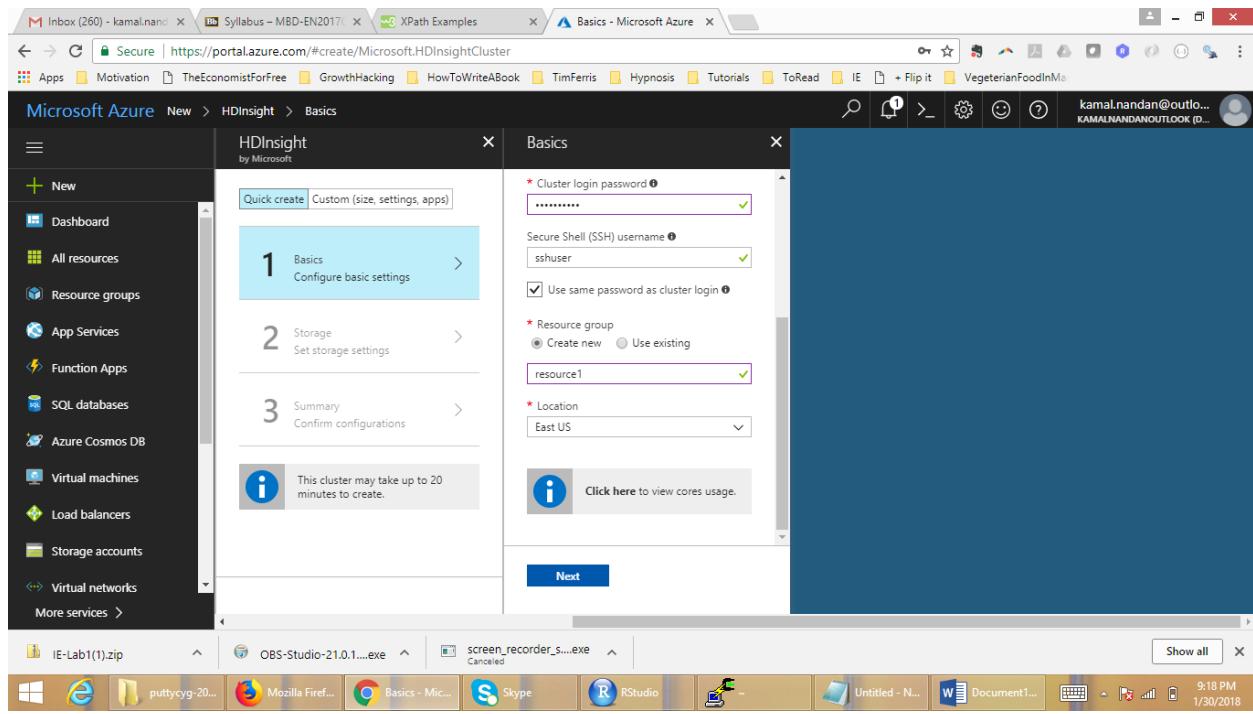
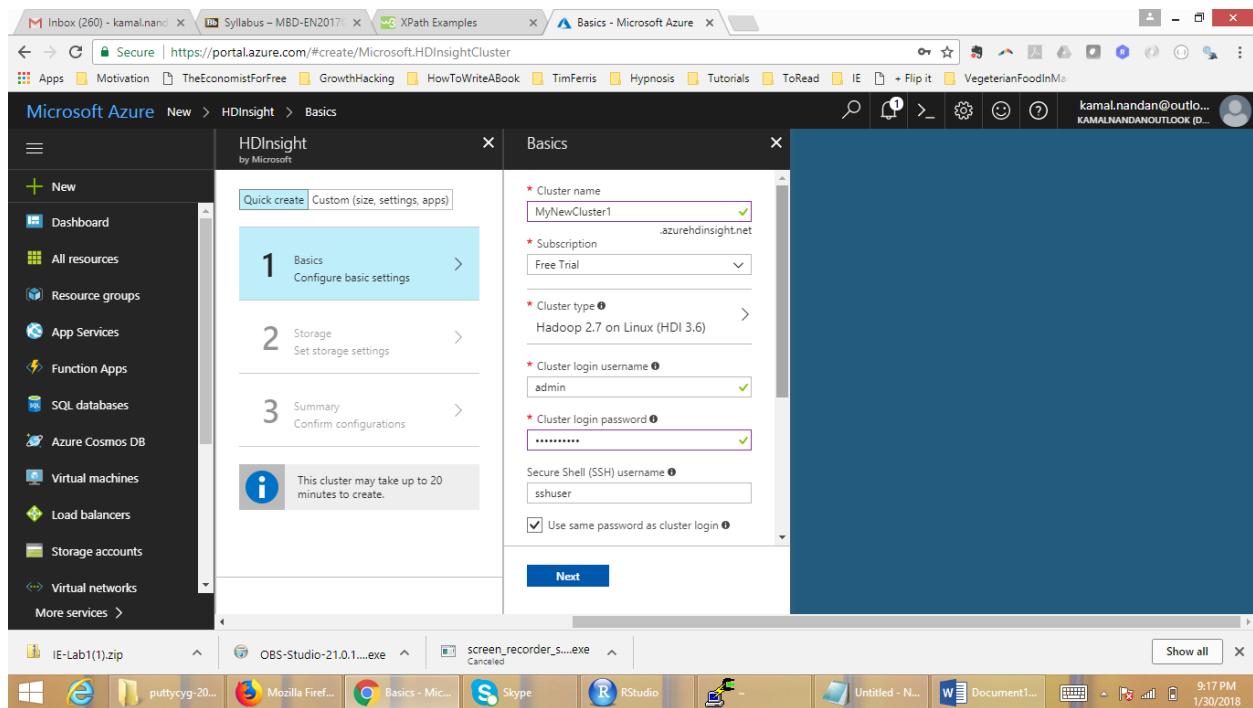
* denotes preview feature

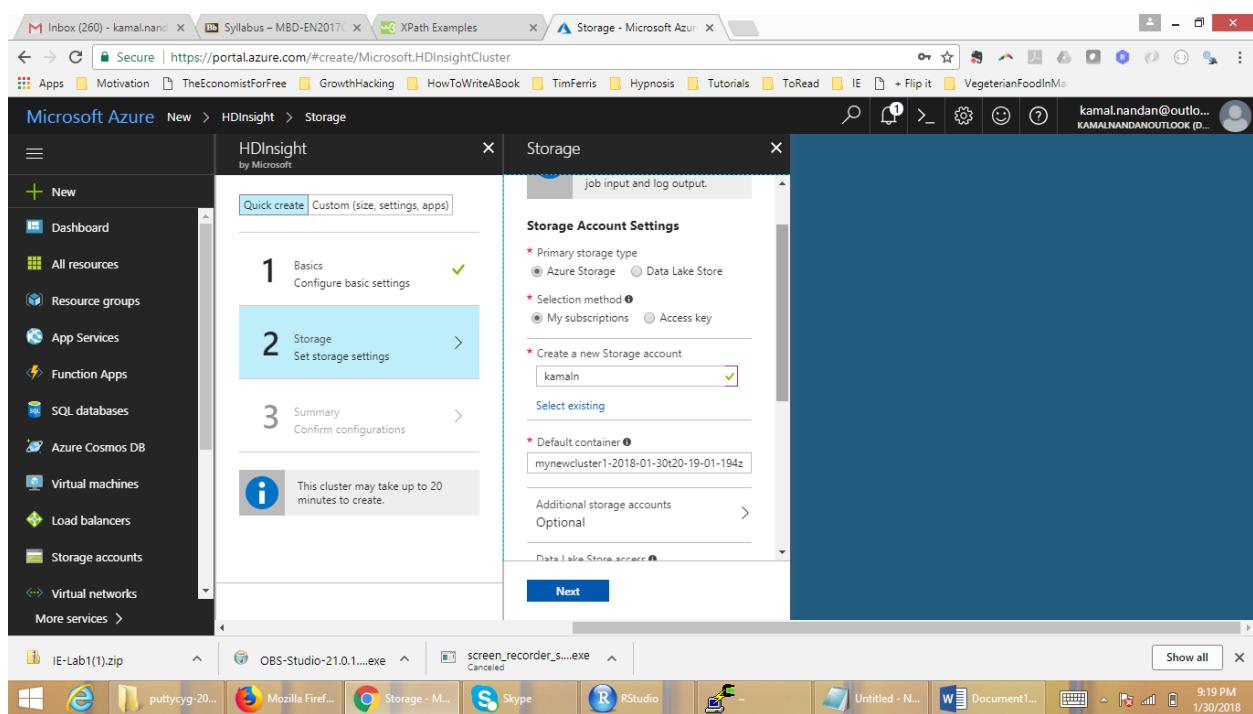
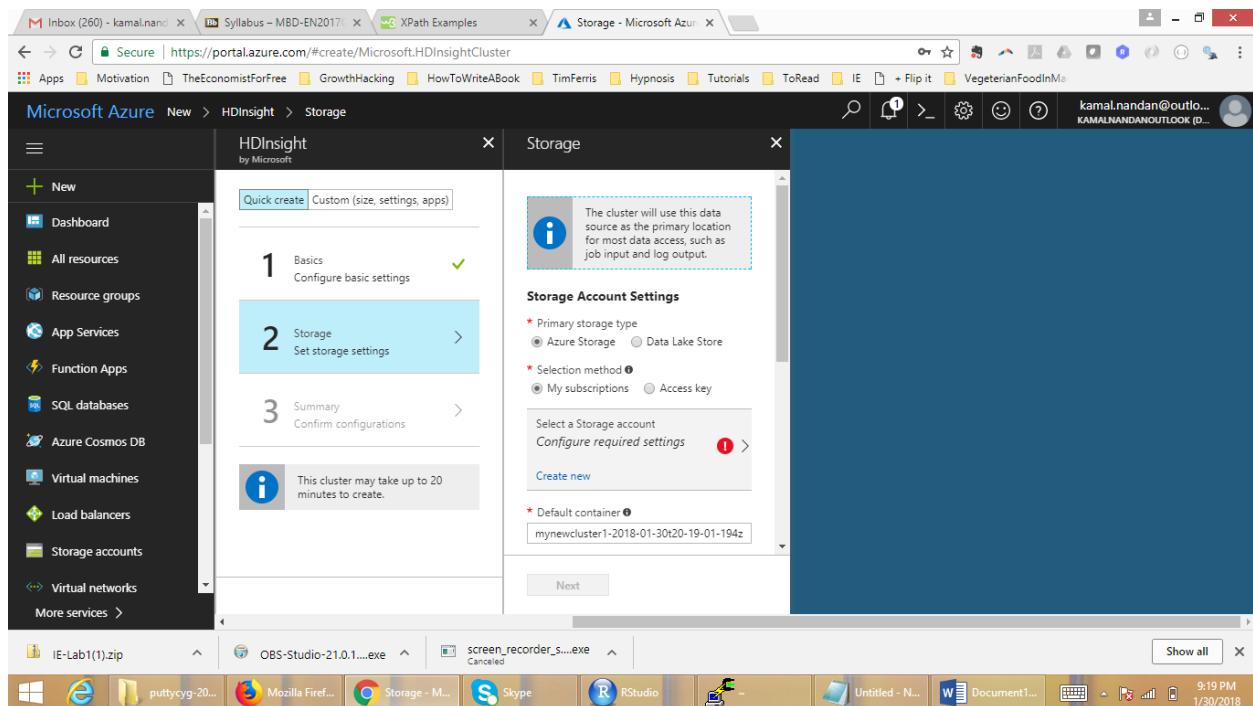
- + Secure shell (SSH) access
- + HDInsight applications
- + Custom virtual network
- + Custom Hive metastore

Select

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Microsoft Azure New > HDInsight > Cluster summary

HDInsight by Microsoft

Quick create Custom (size, settings, apps)

1 Basics Configure basic settings ✓

2 Storage Set storage settings ✓

3 Summary Confirm configurations >

This cluster may take up to 20 minutes to create.

Storage (Edit)

Azure Storage account kamaln (new)
Additional Storage accounts ...
Metastores ...

Applications (optional) (Edit)

Applications (optional) ...

Cluster size (Edit)

Nodes Head (2 x D12 v2), Worker (4 x D4 v2)

Advanced settings (Edit)

Script actions ...
Virtual network ...

2.62 EUR EUR/HOUR (ESTIMATED)

Create Download template and parameters

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Microsoft Azure New > HDInsight > Cluster size > Choose your node size

To learn more, visit our pricing page. Learn more

Number of Worker nodes 2 ✓

Worker node size D4 v2 (2 nodes, 16 cores) >

Head node size D12 v2 (2 nodes, 8 cores) >

WORKER NODES 0.498 x 2 = 0.995
HEAD NODES 0.315 x 2 = 0.630
TOTAL COST 1.63 EUR/HOUR (ESTIMATED)

Next

Choose your node size

Browse the available node sizes and their features. Learn more

Loading pricing...Click here to open pricing calculator

★ Recommended | View all

D5 V2 Optimized	D13 V2 Optimized	D12 V2 Optimized
16 Cores	8 Cores	4 Cores
56 GB RAM	56 GB RAM	28 GB RAM
32 Disks 800 GB Local SSD 35% faster CPU	16 Disks 400 GB Local SSD 35% faster CPU	8 Disks 200 GB Local SSD 35% faster CPU

Select

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Inbox (260) - kamal.nandan@outlook.com Syllabus - MBD-EN2017 XPath Examples Choose your node size -

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Microsoft Azure New > HDInsight > Cluster size > Choose your node size

Cluster size

To learn more, visit our pricing page. [Learn more](#)

Number of Worker nodes: 2 ✓

* Worker node size: D4 v2 (2 nodes, 16 cores)

* Head node size: D12 v2 (2 nodes, 8 cores)

WORKER NODES: 0.498 x 2 = 0.995
HEAD NODES: 0.315 x 2 = 0.630
TOTAL COST: 1.63 EUR/HOUR (ESTIMATED)

A3 General Purpose A4 General Purpose A6 General Purpose

4 Cores	8 Cores	4 Cores
7 GB RAM	14 GB RAM	28 GB RAM
8 Disks	16 Disks	8 Disks

0.26 EUR/HOUR (ESTIMATED) 0.52 EUR/HOUR (ESTIMATED) 0.43 EUR/HOUR (ESTIMATED)

A7 General Purpose D3 Optimized D4 Optimized

Next Select

IE-Lab1(1).zip OBS-Studio-21.0.1...exe screen_recorder_s...exe Canceled Show all

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Dashboard All resources Resource groups App Services Function Apps SQL databases Azure Cosmos DB Virtual machines Load balancers Storage accounts Virtual networks More services >

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Microsoft Azure New > HDInsight > Cluster size > Choose your node size

Cluster size

To learn more, visit our pricing page. [Learn more](#)

Number of Worker nodes: 2 ✓

* Worker node size: A3 (2 nodes, 8 cores)

* Head node size: D12 v2 (2 nodes, 8 cores)

WORKER NODES: 0.258 x 2 = 0.516
HEAD NODES: 0.315 x 2 = 0.630
TOTAL COST: 1.15 EUR/HOUR (ESTIMATED)

A3 General Purpose A4 General Purpose A6 General Purpose

4 Cores	8 Cores	4 Cores
7 GB RAM	14 GB RAM	28 GB RAM
8 Disks	16 Disks	8 Disks

0.26 EUR/HOUR (ESTIMATED) 0.52 EUR/HOUR (ESTIMATED) 0.43 EUR/HOUR (ESTIMATED)

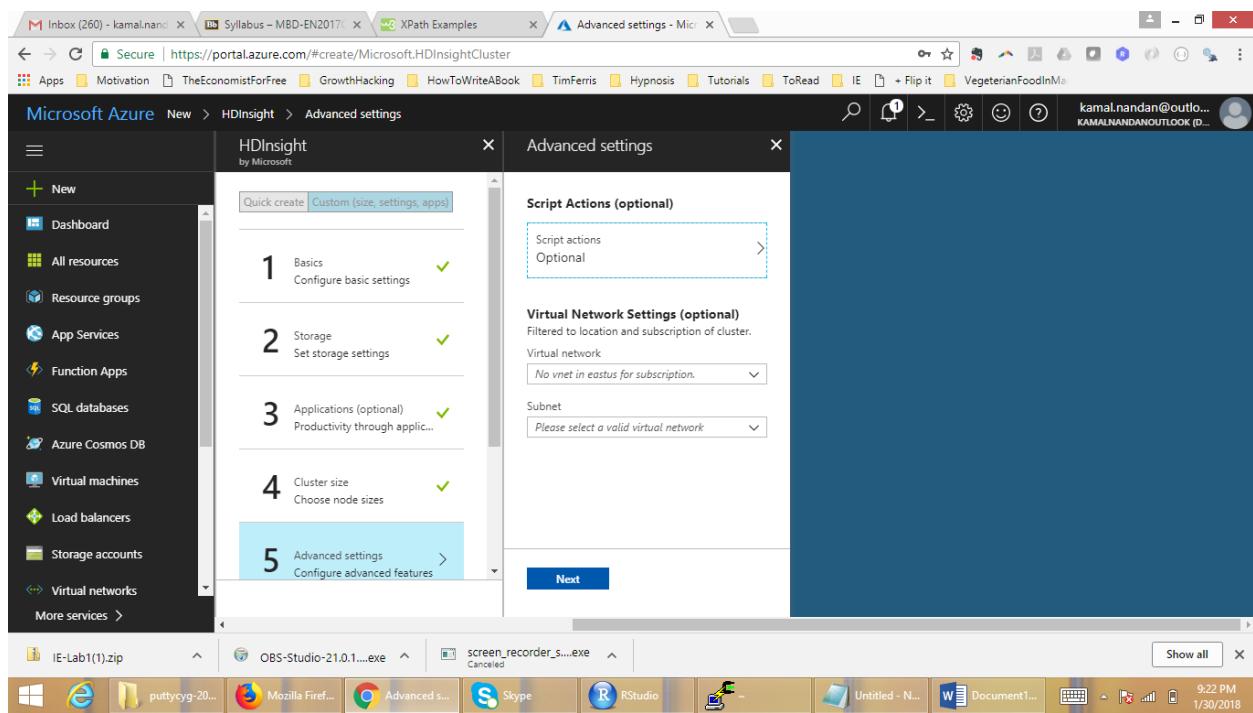
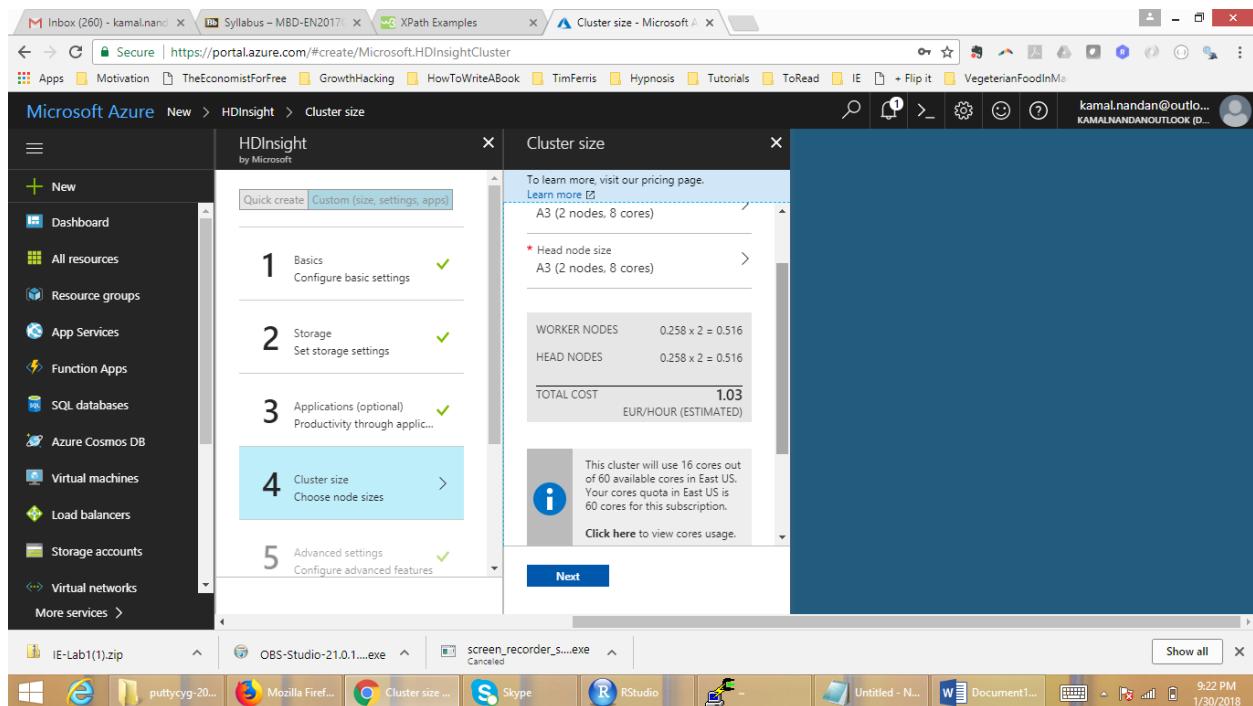
A7 General Purpose D3 Optimized D4 Optimized

Next Select

IE-Lab1(1).zip OBS-Studio-21.0.1...exe screen_recorder_s...exe Canceled Show all

9:21 PM 1/30/2018

Dashboard All resources Resource groups App Services Function Apps SQL databases Azure Cosmos DB Virtual machines Load balancers Storage accounts Virtual networks More services >



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Microsoft Azure New > HDInsight > Cluster summary

HDInsight by Microsoft

Configure basic settings

2 Storage Set storage settings ✓

3 Applications (optional) Productivity through applic... ✓

4 Cluster size Choose node sizes ✓

5 Advanced settings Configure advanced features ✓

6 Summary Confirm configurations >

Cluster summary

Click 'Create' below to deploy your cluster. Once created you will be billed until your cluster is deleted.

Basics (Edit)

Cluster name	MyNewCluster1
Subscription	Free Trial
Cluster type	Hadoop 2.7 on Linux (HDI 3.6)
Cluster login username	admin
SSH username	sshuser
Resource group	resource1
Location	East US

Storage (Edit)

Azure Storage account	kamaln (new)
Additional Storage accounts	...
Metastores	...

Create Download template and parameters

IE-Lab1(1).zip OBS-Studio-21.0.1....exe screen_recorder_s...exe Canceled Skype RStudio Untitled - N... Document1... 9:22 PM 1/30/2018

Show all X

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Secure | https://portal.azure.com/#

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Microsoft Azure

Dashboard

All resources ALL SUBSCRIPTIONS

No resources to display

Try changing your filters if you don't see what you're looking for. Learn more

Create resources

Azure getting started made easy!

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Create DevOps Project

Quickstart tutorials

Windows Virtual Machines Provision Windows Server, SQL Server, SharePoint VMs

Linux Virtual Machines Provision Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service Create Web Apps using .NET, Java, Node.js, Python, PHP

Deployment in progress... Deployment to resource group 'resource1' is in progress.

MyFirstCluster HDINSIGHT CLUSTER Deleted

MyFirstCluster HDINSIGHT CLUSTER Deleted

kamalnandan HDINSIGHT CLUSTER Deleted Deploying HDInsight

IE-Lab1(1).zip OBS-Studio-21.0.1....exe screen_recorder_s...exe Canceled Skype RStudio Untitled - N... Document1... 9:22 PM 1/30/2018

Show all X

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Microsoft Azure MyNewCluster1

Search (Ctrl+ /)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource group (change) **resource1**

Status Running

Location East US

Subscription name (change) **Free Trial**

Subscription ID 52a9d89d-6475-4103-9c25-aa7cb13dca22

Learn more Documentation Cluster type, HDI version Hadoop on Linux (HDI 3.6) URL <https://MyNewCluster1.azurehdinsight.net> Getting started Quickstart Head Nodes, Worker nodes A3 (x2), A3 (x2)

Cluster Dashboard Secure Shell (SSH) Scale cluster Move Delete

Essentials

Quick links

Cluster dashboard Ambari Views Scale cluster

Usage

Cluster nodes Applications Script actions

IE-Lab1(1).zip OBS-Studio-21.0.1....exe screen_recorder_s...exe

9:37 PM 1/30/2018

This screenshot shows the Microsoft Azure portal interface for a cluster named 'MyNewCluster1'. The left sidebar lists various service categories like App Services, Function Apps, and Storage accounts. The main content area displays the cluster's status as 'Running' with 2 head nodes and 2 worker nodes. It features a 'Quick links' section with buttons for 'Cluster dashboard', 'Ambari Views', and 'Scale cluster'. Below this is a 'Usage' section with tabs for 'Cluster nodes', 'Applications', and 'Script actions'. The bottom taskbar shows several open applications including IE-Lab1(1).zip, OBS-Studio-21.0.1....exe, and screen_recorder_s...exe.

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Secure https://mynewcluster1.azurehdinsight.net/#/main/dashboard/metrics

1 op 2 alerts

Dashboard Services Hosts Alerts Admin admin

HDFS YARN MapReduce2 Tez Hive Pig Swoop Oozie ZooKeeper Ambari Metrics Slider Actions

Metrics Heatmaps Config History

Metric Actions Last 1 hour

HDFS Disk Usage 7% DataNodes Live 2/2 HDFS Links Active NameNode Standby NameNode 2 DataNodes Memory Usage No Data Available Network Usage No Data Available

CPU Usage No Data Available Cluster Load No Data Available NameNode Heap 10% NameNode RPC 0.74 ms NameNode CPU WIO n/a

NameNode Uptime 245.0 s ResourceManager Heap 9% ResourceManager Uptime 296.9 s YARN Memory 0% NodeManagers Live 2/2

IE-Lab1(1).zip OBS-Studio-21.0.1....exe screen_recorder_s...exe

9:38 PM 1/30/2018

This screenshot shows the Ambari dashboard for the 'MyNewCluster1' cluster. The left sidebar lists services like HDFS, YARN, and Tez. The main area displays various metrics in cards: 'HDFS Disk Usage' at 7%, 'DataNodes Live' at 2/2, 'NameNode Heap' at 10%, and 'YARN Memory' at 0%. Other visible metrics include 'CPU Usage', 'Cluster Load', 'NameNode Uptime' (245.0 s), and 'NodeManagers Live' (2/2). The bottom taskbar shows applications like IE-Lab1(1).zip, OBS-Studio-21.0.1....exe, and screen_recorder_s...exe.

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Secure | https://portal.azure.com/#dashboard/private/d707df79-52e2-4ef6-b554-a935083e5011

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Microsoft Azure

Dashboard

All resources ALL SUBSCRIPTIONS

MyNewCluster1 HDInsight cluster kamal Storage account

Azure getting started made easy!

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Quickstart tutorials

Windows Virtual Machines Provision Windows Server, SQL Server, SharePoint VMs

Linux Virtual Machines Provision Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service Create Web Apps using .NET, Java, Node.js, Python, PHP

Deleted kamalnandan HDINSIGHT CLUSTER Deleted

Deleted MyNewCluster1 HDINSIGHT CLUSTER

Deleted kamalnandan HDINSIGHT CLUSTER

Deleted MyNewCluster1 HDINSIGHT CLUSTER

IE-Lab1(1).zip OBS-Studio-21.0.1.exe screen_recorder_s.exe Canceled Skype RStudio Untitled - N... CreatingClu... Show all 9:39 PM 1/30/2018

This screenshot shows the Microsoft Azure dashboard. On the left, there's a sidebar with options like 'Dashboard', 'All resources', 'Resource groups', etc. The main area has a 'Dashboard' tile with sections for 'Azure getting started made easy!', 'Quickstart tutorials', and 'App Service'. Below the dashboard are several resource cards: 'MyFirstCluster HDINSIGHT CLUSTER' (Deleted), 'kamalnandan HDINSIGHT CLUSTER' (Deleted), 'MyNewCluster1 HDINSIGHT CLUSTER' (Deleted), and another 'MyNewCluster1 HDINSIGHT CLUSTER' (Running). At the bottom, there's a taskbar with icons for IE-Lab1(1).zip, OBS-Studio-21.0.1.exe, screen_recorder_s.exe, Skype, RStudio, Untitled - N..., and CreatingClu... The status bar at the bottom right shows the date and time: 9:39 PM 1/30/2018.

Inbox (260) - kamal.nandan Syllabus - MBD-EN2017 XPath Examples Scale cluster - Microsoft

Secure | https://portal.azure.com/#resource/subscriptions/52a9d89d-6475-4103-9c25-aa7cb13dca22/resourceGroups/resource1/provider...

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Microsoft Azure MyNewCluster1 > Scale cluster

Scale cluster MyNewCluster1

Number of Worker nodes 2

Worker node sizes A3 (2 nodes, 8 cores)

Head node size A3 (2 nodes, 8 cores)

WORKER NODES HEAD NODES

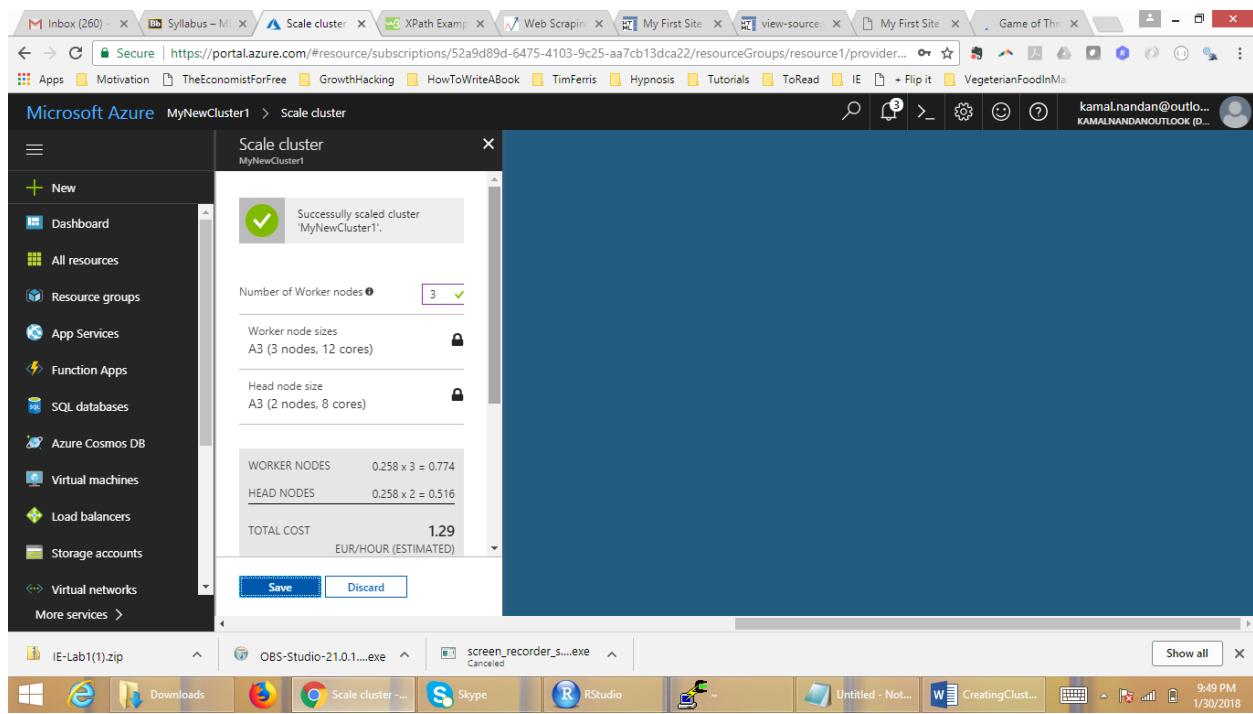
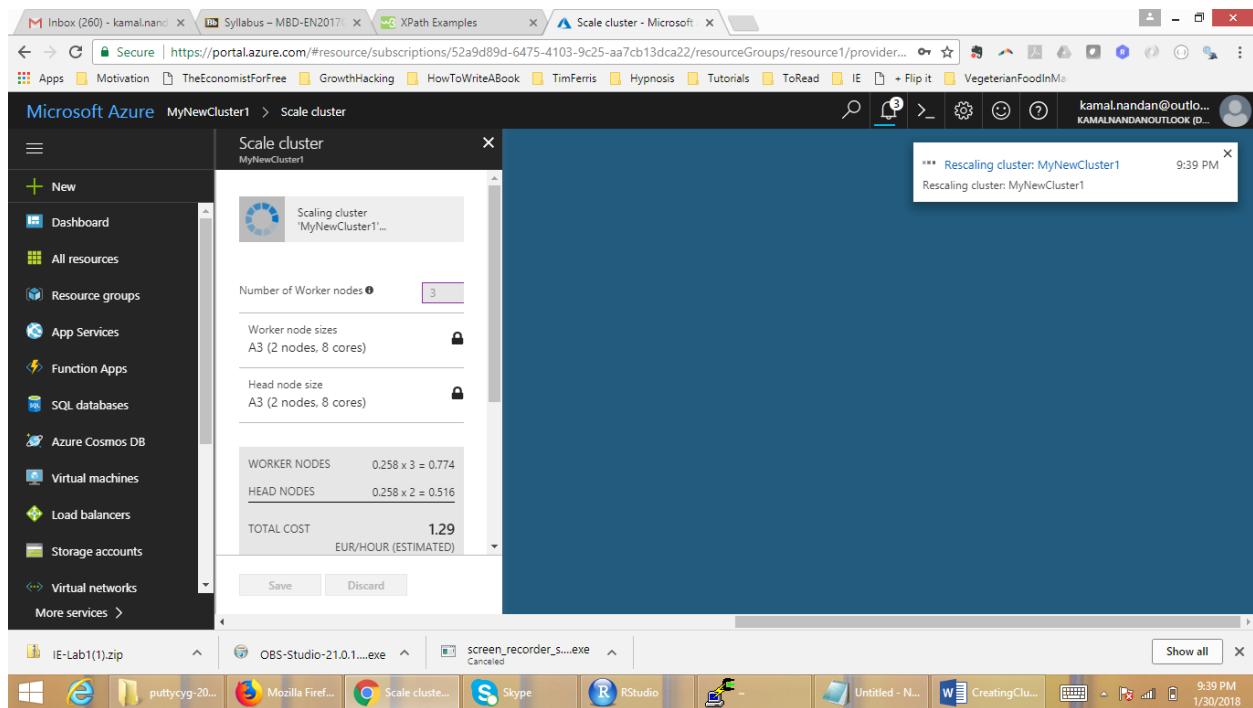
TOTAL COST Not available

Based on your subscription's available cores in East US, this cluster can scale up to 13 worker nodes.

Save Discard

IE-Lab1(1).zip OBS-Studio-21.0.1.exe screen_recorder_s.exe Canceled Skype RStudio Untitled - N... CreatingClu... Show all 9:39 PM 1/30/2018

This screenshot shows the 'Scale cluster' dialog for 'MyNewCluster1'. It allows setting the number of worker nodes (set to 2), choosing worker and head node sizes (both set to A3), and viewing the total cost (which is not available). A note indicates the cluster can scale up to 13 worker nodes based on the user's subscription. At the bottom are 'Save' and 'Discard' buttons. The taskbar and status bar are visible at the bottom.



Inbox (260) | Syllabus - MI | Scale cluster | XPath Exam | Web Scrapi... | My First Site | view-source | My First Site | Game of Thr... |

Secure | https://portal.azure.com/#resource/subscriptions/52a9d89d-6475-4103-9c25-aa7cb13dca22/resourceGroups/resource1/provider...

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Microsoft Azure MyNewCluster1 > Scale cluster

Scaling cluster 'MyNewCluster1'...

Number of Worker nodes: 2

Worker node sizes: A3 (3 nodes, 12 cores)

Head node size: A3 (2 nodes, 8 cores)

WORKER NODES: 0.258 x 3 = 0.774
HEAD NODES: 0.258 x 2 = 0.516
TOTAL COST: 1.29 EUR/HOUR (ESTIMATED)

Save Discard

9:49 PM 1/30/2018

IE-Lab1(1).zip OBS-Studio-21.0.1....exe screen_recorder_s...exe Canceled Show all

RStudio Untitled - Not... CreatingClust... 9:49 PM 1/30/2018

... Rescaling cluster: MyNewCluster1 9:49 PM
Successfully rescaled cluster: MyNewCluster1

Inbox (260) | Syllabus - MI | Scale cluster | XPath Exam | Web Scrapi... | My First Site | view-source | My First Site | Game of Thr... |

Secure | https://portal.azure.com/#resource/subscriptions/52a9d89d-6475-4103-9c25-aa7cb13dca22/resourceGroups/resource1/provider...

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kamal.nandan@outlook.com KAMALNANDANOUTLOOK (D...)

Microsoft Azure MyNewCluster1 > Scale cluster

Successfully scaled cluster 'MyNewCluster1'.

Number of Worker nodes: 2 ✓

Worker node sizes: A3 (2 nodes, 8 cores)

Head node size: A3 (2 nodes, 8 cores)

WORKER NODES: 0.258 x 2 = 0.516
HEAD NODES: 0.258 x 2 = 0.516
TOTAL COST: 1.03 EUR/HOUR (ESTIMATED)

Save Discard

9:56 PM 1/30/2018

IE-Lab1(1).zip OBS-Studio-21.0.1....exe screen_recorder_s...exe Canceled Show all

RStudio Untitled - Not... CreatingClust... 9:56 PM 1/30/2018

✓ Successfully scaled cluster 'MyNewCluster1'.

The screenshot shows the Microsoft Azure portal interface. The left sidebar lists various service categories like Dashboard, All resources, Resource groups, etc. The main content area is titled "MyNewCluster1 - SSH + Cluster login". It contains two sections: "Connect to cluster using secure shell (SSH)" and "Connect to cluster using Cluster Login". In the SSH section, the hostname is set to "MyNewCluster1-ssh.azurehdinsight.net" and the port is 22. In the Cluster Login section, the cluster login username is "admin". A "Reset credential" button is present. The taskbar at the bottom shows several open applications including IE-Lab1(1).zip, OBS-Studio-21.0.1..., screen_recorder_s...exe, Skype, RStudio, Untitled - Not..., CreatingClust..., and Putty.

This screenshot is identical to the one above, but it includes a foreground window titled "PuTTY Configuration". The "Session" category is selected, showing the connection details: Host Name (or IP address) is "@MyNewCluster1-ssh.azurehdinsight.net", Port is 22, and Connection type is "SSH". Other tabs like Terminal, Appearance, and Connection are also visible. The taskbar at the bottom remains the same.

```
Using username "sshuser".
Authorized uses only. All activity may be monitored and reported.
sshuser@MyNewCluster1-ssh.azurehdinsight.net's password:
Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.4.0-109-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

Get cloud support with Ubuntu Advantage Cloud Guest:
http://www.ubuntu.com/business/services/cloud

0 packages can be updated.
0 updates are security updates.

Welcome to HDInsight.

Last login: Tue Jan 30 20:59:03 2018 from 37.132.211.108
sshuser@hn0-MyNewC:~$
```

A screenshot of a Microsoft Word document titled "CreatingClusterInAzure.docx". The document contains a terminal session from an SSH connection:

```
sshuser@hn0-MyNewC:~$ scala -version
Scala code runner version 2.11.6 -- Copyright 2002-2013, LAMP/EPFL
sshuser@hn0-MyNewC:~$
```

Secure | <https://portal.azure.com/#resource/subscriptions/52a9d89d-6475-4103-9c25-aa7cb13dca22/resourceGroups/resource1/provider...>

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Microsoft Azure MyNewCluster1

New

- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- More services >

MyNewCluster1 HDInsight cluster

Search (Ctrl+ /)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

SETTINGS Locks Automation script

GETTING STARTED Quick start Tools for HDInsight

Delete 'MyNewCluster1'
Are you sure you want to delete this cluster permanently?

Yes No

Subscriber name (change)
Free Trial
Subscription ID
52a9d89d-6475-4103-9c25-aa7cb13dca22

Getting started
Quickstart
Head Nodes, Worker nodes
A3 (x2), A3 (x2)

Quick links Cluster dashboard Ambari Views Scale cluster

Usage Cluster nodes Applications Script actions

IE-Lab1(1).zip OBS-Studio-21.0.1...exe screen_recorder_s...exe Cancelled

Show all

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