

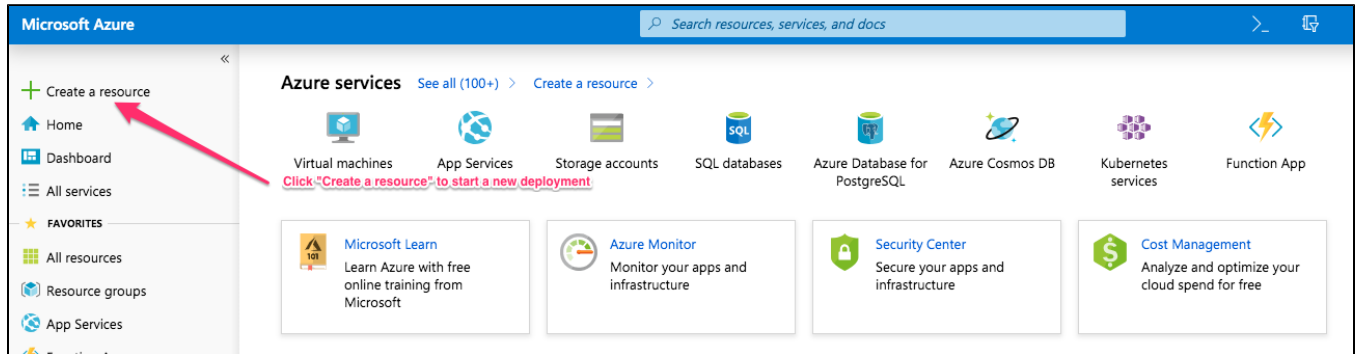
# Creating a Lustre Cluster on Azure

The steps below will show how to create a Lustre Cluster on Microsoft's Azure infrastructure. It will start with a Lustre template in the Azure marketplace.

You will need an Azure account.

Login to your account and go to the dashboard. You can get to the dashboard from anywhere by clicking on the blue "Microsoft Azure" in the upper left corner of the GUI.

To get started click on "Create a resource" to get ready to start deployments of a new instance of Lustre



In the search box that appears, type "lustre" and hit return. For some reason the completions that start to show up do not work as expected

Microsoft Azure

Search resources, services, and more

Home > New

### New










Search for lustre, hit enter

lustre

#### Azure Marketplace

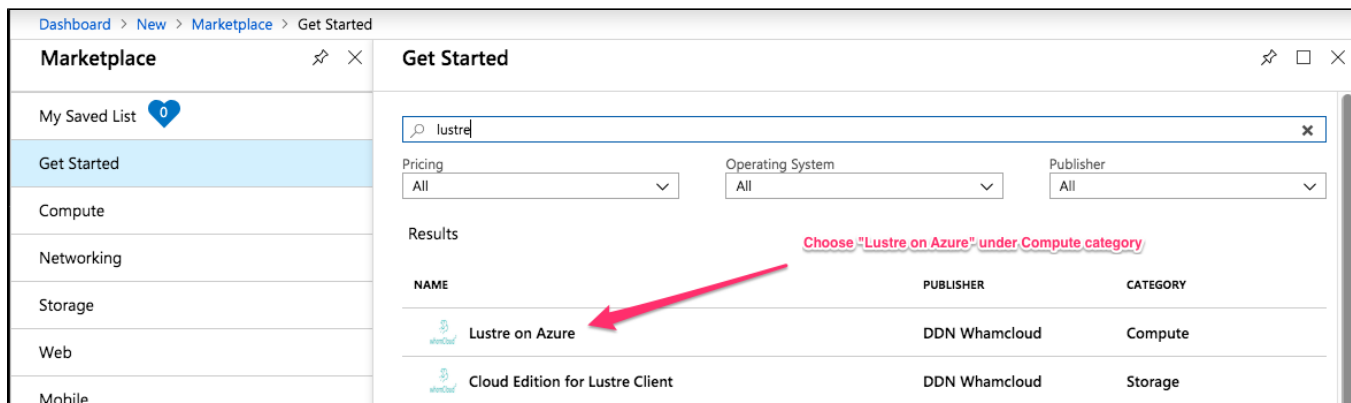
See all

Popular

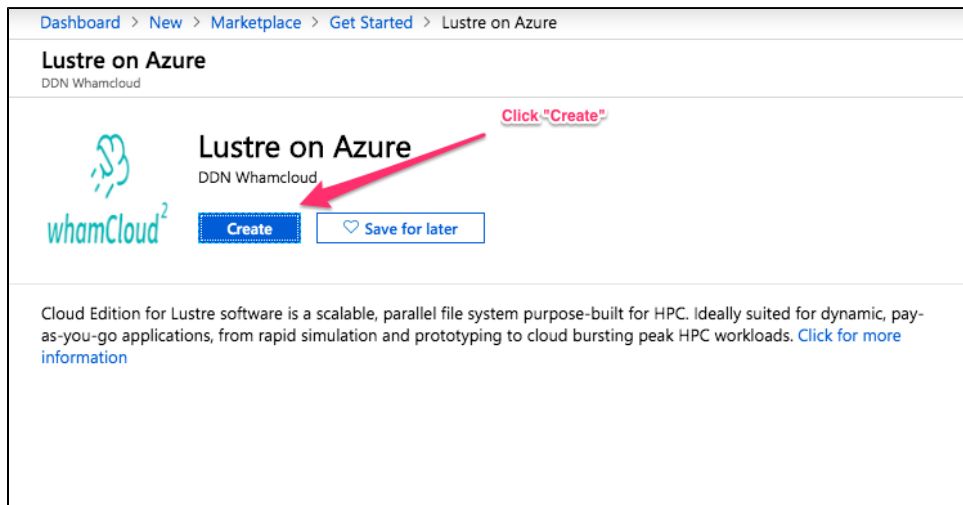
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choose "Lustre on Azure" in Compute category.



click "Create"



In the "Basics" screen that appears you will fill out the fields in the template.

**Lustre Filesystem name** - this will be name of your lustre filesystem and also prepended to the names of VM hosts. For example here it is specified as Idemo so our MGS node will be Idemomgs.

**Username** - This is the username for the administrator account.

**Authentication type** - You can choose to use a password or a key. You can cut and paste a public key here. For windows you can load your private key into puttygen and cut and paste the openssh version of the public key into the box. Whatever you do here will be propagated to all the VMs in the Lustre Cluster.

**Resource Group** - Is the unique name for your group of resources (the resources that make up your Lustre cluster). You can create a new resource group or use existing one (must be empty)

**Location** - Choose the Azure region you would like to deploy to from the drop down list.

When done hit "OK" to move to the next screen.

Dashboard > New > Marketplace > Get Started > Lustre on Azure > Create Lustre on Azure > Basics

## Create Lustre on Azure

**1** Basics  
Configure basic settings

**2** Lustre Network Settings  
Configure the filesystem's network.

**3** Management Server Settings  
Configure the Management Server's...

**4** Metadata Server Settings  
Configure the Metadata Server's r...

**5** Object Storage Servers Setti...  
Configure the Object Storage Ser...

**6** Compute Client Settings  
Configure the client's resources a...

**7** Summary  
Lustre on Azure

**8** Buy

### Basics

\* Lustre Filesystem name ⓘ  
demo ✓

\* Username ⓘ  
azureuser ✓

\* Authentication type ⓘ  
Password SSH public key

\* SSH public key ⓘ

Subscription  
Pay-As-You-Go (be8f0caf-a764-41f4-8054... ▼)

\* Resource group ⓘ  
(New) demo ▼  
[Create new](#)

\* Location  
(US) West US ▼

OK

Filesystem name, and also deployment prefix

Admin username used to ssh in

Pick either Password or SSH key

Paste your public key here

Name of the resource group (new or existing)

Azure location to launch your Lustre

Click when done

In the "Lustre Network Settings", fill out the fill in the template

Lustre virtual network - this is the virtual network that the VM will be using. You can create new or use existing one.

Lustre Subnets - this is the subnet that VM will be using. A new one will be created in case of new virtual network.

Public IP address name for MGS - This is the resource name for the public IP address. Not the hostname of the MGS which is what you will ssh into.

You can let it create a new one or use existing one. If you choose "None", you might not be able to ssh in your cluster.

DNS Prefix for public IP Address - This is the hostname of the public MGS node. Note that underneath the box is the rest of the public address.

When done with "Lustre Subnets", hit "OK" to go back to "Lustre Network Settings", hit "OK" again to move to the next screen.

Dashboard > Get Started > Lustre on Azure > Create Lustre on Azure > Lustre Network Settings > Lustre Subnets

### Create Lustre on Azure

- 1 Basics Done
- 2 Lustre Network Settings **Configure the filesystem's network.**
- 3 Management Server Settings Configure the Management Serve...
- 4 Metadata Server Settings Configure the Metadata Server's r...
- 5 Object Storage Servers Setti... Configure the Object Storage Ser...
- 6 Compute Client Settings Configure the client's resources a...
- 7 Summary Lustre on Azure
- 8 Buy

### Lustre Network Settings

*New virtual network or choose existing one*

\* Lustre Virtual network (new) LustreVnet

Lustre Subnets **Configure subnets**

\* Public IP Address for the Manage... (new) Idemo-mgs

\* DNS Prefix for the public IP Address Idemo-4a3fcb9c1 westus.cloudapp.azure.com

### Lustre Subnets

\* Subnet name LustreSubnet

\* Subnet address prefix 10.0.0.0/24

OK

OK

in the "Management Server Setting", you can choose the type of VM for Management server (MGS)

click "Change size" if you want to choose a different size

When done, hit "OK" to move to the next screen

Dashboard > Get Started > Lustre on Azure > Create Lustre on Azure > Management Server Settings

### Create Lustre on Azure

- 1 Basics Done ✓
- 2 Lustre Network Settings Done ✓
- 3 Management Server Settings > Configure the Management Serve...
- 4 Metadata Server Settings > Configure the Metadata Server's r...
- 5 Object Storage Servers Setti... > Configure the Object Storage Ser...
- 6 Compute Client Settings > Configure the client's resources a...
- 7 Summary Lustre on Azure >
- 8 Buy >

### Management Server Setti...

\* Management Server size ⓘ

**1x Standard DS3 v2**  
4 vcpus, 14 GB memory

[Change size](#)

**OK**

Change to different VM size if you want

Click when done

In the "Metadata Server Settings", you can choose the type of VM for Metadata server (MDS)

Click "Change size" if you want to choose a different size

Click the drop down menu for "Size of each MDT disk" if you want to change the Metadata Target size (MDT). default is set to 512GB.

Note: MDT is not the VM boot disk. It is Lustre Metadata disk

When done, hit "OK" to move to the next screen

Dashboard > Get Started > Lustre on Azure > Create Lustre on Azure > Metadata Server Settings

### Create Lustre on Azure

1 Basics Done ✓

2 Lustre Network Settings Done ✓

3 Management Server Settings ✓ Done

4 Metadata Server Settings > Configure the Metadata Server's r...

5 Object Storage Servers Setti... > Configure the Object Storage Ser...

6 Compute Client Settings > Configure the client's resources a...

7 Summary Lustre on Azure >

8 Buy >

### Metadata Server Settings

\* Metadata Server size ⓘ  
**1x Standard D13 v2**  
8 vcpus, 56 GB memory  
[Change size](#)

\* Size of each MDT disk (GB) ⓘ  
512GB  
128GB  
512GB  
2TB  
8TB  
16TB

OK

Change to different VM size if you want

Change to different disk size

In the "Object Storage Servers Settings",

First enter the number of Object Storage Servers (OSS) you would like to use. Default is 2

Then select the type of VM for Object Storage server (OSS)

Click "Change size" if you want to choose a different size

Also choose the size of each of the 3 OSTs that will be attached to your OSS

When done, hit "OK" to move to the next screen.

Dashboard > Get Started > Lustre on Azure > Create Lustre on Azure > Object Storage Servers Settings

Create Lustre on Azure

1 Basics Done ✓

2 Lustre Network Settings Done ✓

3 Management Server Settings Done ✓

4 Metadata Server Settings Done ✓

5 Object Storage Servers Settings > Configure the Object Storage Servers

6 Compute Client Settings > Configure the client's resources and settings

7 Summary Lustre on Azure >

8 Buy >

Object Storage Servers Settings

\* Number of Object Storage Servers ⓘ  
2

\* Object Storage Servers size ⓘ  
**1x Standard DS13 v2**  
8 vcpus, 56 GB memory  
[Change size](#)

\* Total storage per OSS (with 3 disks) ⓘ  
3x512GB  
3x128GB  
3x512GB  
3x2TB  
3x4TB  
3x8TB  
3x16TB

OK

Number of Object Storage Servers

Change to different VM size if you want

Each OSS has 3 OSTs

Click when done

In the "Compute Client Settings", client lustre image is free of charge. You only pay for VM.

First enter number of compute client. Default is 2.

Click "Change size" if you want to choose a different size

When done, hit "OK" to move to the next screen.



Dashboard > Get Started > Lustre on Azure > Create Lustre on Azure > Compute Client Settings

### Create Lustre on Azure

1 Basics Done ✓

2 Lustre Network Settings Done ✓

3 Management Server Settings Done ✓

4 Metadata Server Settings Done ✓

5 Object Storage Servers Setti... Done ✓

6 Compute Client Settings > Configure the client's resources a...

7 Summary > Lustre on Azure

8 Buy >

### Compute Client Settings

\* Number of Clients ⓘ  
2 Number of compute clients

\* Compute Client size ⓘ  
1x Standard F4s  
4 vcpus, 8 GB memory  
Change size Change to different VM size if you want

OK Click when done

In the "Summary" screen, a summary of what has been entered is shown in the summary.

Verify information you have entered and click "OK" when done

Home > New > Marketplace > Get Started > Lustre on Azure > Create Lustre on Azure > Summary

Create Lustre on Azure

1 Basics  
Done

2 Lustre Network Settings  
Done

3 Management Server Settings  
Done

4 Metadata Server Settings  
Done

5 Object Storage Servers Setti...  
Done

6 Compute Client Settings  
Done

7 Summary  
Lustre on Azure

8 Buy

Summary

Validation passed

Must be passed or, error info will show here

Basics

Subscription

Resource group

Location

Lustre Filesystem name

Username

SSH public key

Lustre Network Settings

Lustre Virtual network

Subnet

Subnet address prefix

Public IP Address for the Ma...

DNS Prefix for the public IP ...

Management Server Settings

Management Server size

Metadata Server Settings

Metadata Server size

Size of each MDT disk (GB)

Object Storage Servers Settings

Number of Object Storage S...

Object Storage Servers size

Total storage per OSS (with ...

Compute Client Settings

Number of Clients

Compute Client size

Pay-As-You-Go

demo

(US) West US

ldemo

azureuser

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCIWcpSq...

LustreVnet

LustreSubnet

10.2.0.0/24

ldemo-mgs

ldemo-6e00f8c34e

Standard DS3 v2

Standard D13 v2

512GB

2

Standard DS13 v2

3x512GB

2

Standard F4s

OK

Click when ready

Download template and parameters

Read the terms of use and purchase your Lustre Filesystem.

Enter name, email adress and phone number

when done click "Create"

Home > New > Marketplace > Get Started > Lustre on Azure > Create Lustre on Azure > Create

Create Lustre on Azure

Create

1 Basics Done ✓

2 Lustre Network Settings Done ✓

3 Management Server Settings Done ✓

4 Metadata Server Settings Done ✓

5 Object Storage Servers Setti... Done ✓

6 Compute Client Settings Done ✓

7 Summary Lustre on Azure ✓

8 Buy >

Lustre on Azure

by DDN Whamcloud

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Deploying this template will result in various actions being performed, which may include the deployment of one or more Azure resources or Marketplace offerings and/or transmission of the information you provided as part of the deployment process to one or more parties, as specified in the template. You are responsible for reviewing the text of the template to determine which actions will be performed and which resources or offerings will be deployed, and for locating and reviewing the pricing and legal terms associated with those resources or offerings.

Current retail prices for Azure resources are set forth [here](#) and may not reflect discounts applicable to your Azure subscription.

Prices for Marketplace offerings are set forth [here](#), and the legal terms associated with any Marketplace offering may be found in the Azure portal; both are subject to change at any time prior to deployment.

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**Template deployment is intended for advanced users only.** If you are uncertain which actions will be performed by this template, which resources or offerings will be deployed, or what prices or legal terms pertain to those resources or offerings, do not deploy this template.

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By clicking "Create", I (a) agree to the legal terms and privacy statement(s) provided above as well as the legal terms and privacy statement(s) associated with each Marketplace offering that will be deployed using this template, if any; (b) authorize Microsoft to charge or bill my current payment method for the fees associated with my use of the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); (c) agree that Microsoft may share my contact information and transaction details with any third-party sellers of the offering(s); and (d) give Microsoft permission to share my contact information so that the provider of the template can contact me regarding this product and related products. Microsoft assumes no responsibility for any actions performed by third-party templates and does not provide rights for third-party products or services. See the [Azure Marketplace Terms](#) for additional terms.

By clicking Create, you give Microsoft permission to use or share your account information so that the provider or Microsoft can contact you regarding this product and related products.

Name:

undefined undefined

\* Preferred e-mail address:

Required field.  
Must be a valid e-mail.

\* Preferred phone number:

Required field.

Create

Click when ready to purchase

Next you will see the dashboard notification with deployment in progress...

Azure services

See all (100+) > Create a resource >

Virtual machines

App Services

Storage accounts

SQL databases

Azure Database for PostgreSQL

Azure Cosmos DB

Kubernetes services

Microsoft Learn

Azure Monitor

Security Center

Cost Management

Notifications

More events in the activity log →

Deployment in progress...

Deployment to resource group 'demo' is in progress.

a few seconds ago

Click on "Deployment in progress...", you will see the status of your deployment

Deployment

Search (Ctrl+/)

Delete

Cancel

Redeploy

Refresh

Click to see update

Overview

Inputs

Outputs

Template

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.

Deployment name: ddn-whamcloud-5345716.lustre\_on\_azure-20190515090242

Subscription: Pay-As-You-Go

Resource group: demo

DEPLOYMENT DETAILS (Download)

Start time: 5/15/2019, 9:02:42 AM

Duration: 4 minutes 27 seconds

Correlation ID: dab40746-4759-429b-abcd-8c7e0ac84cda

RESOURCE	TYPE	STATUS	OPERATION DETAILS
Idemooss0/init	Microsoft.Compute/virtualMa...	Created	Operation details
Idemooss1/init	Microsoft.Compute/virtualMa...	OK	Operation details
Idemomds/init	Microsoft.Compute/virtualMa...	OK	Operation details
Idemomgs/init	Microsoft.Compute/virtualMa...	OK	Operation details
Idemooss0	Microsoft.Compute/virtualMa...	OK	Operation details
Idemooss1	Microsoft.Compute/virtualMa...	OK	Operation details
Idemomds	Microsoft.Compute/virtualMa...	OK	Operation details
Idemomgs	Microsoft.Compute/virtualMa...	OK	Operation details
Idemooss1	Microsoft.Network/networkIn...	Created	Operation details
Idemooss0	Microsoft.Network/networkIn...	Created	Operation details
Idemomds	Microsoft.Network/networkIn...	Created	Operation details
Idemomgs	Microsoft.Network/networkIn...	Created	Operation details
Idemo-mgs	Microsoft.Network/publicIPa...	OK	Operation details
Idemoclient0	Microsoft.Network/publicIPa...	OK	Operation details
Idemoclient	Microsoft.Compute/availabil...	OK	Operation details
Idemovnet	Microsoft.Resources/deploy...	OK	Operation details
Idemooss	Microsoft.Compute/availabil...	OK	Operation details
pid-f3de12ff-b17c-5c6e-afff-67	Microsoft.Resources/deploy...	OK	Operation details

Once the status changes to "Your deployment is complete"

Click on "Outputs" to view the "lustre Gred Report" (ie ganglia)

[Delete](#)
[Cancel](#)
[Redeploy](#)
[Refresh](#)

Overview

Inputs

Outputs Click here to see Output info.

Template

✓

Your deployment is complete

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.

Deployment name: ddn-whamcloud-5345716.lustre\_on\_azure-20190515090242  
Subscription: [Pay-As-You-Go](#)  
Resource group: [demo](#)

DEPLOYMENT DETAILS [\(Download\)](#)

Start time: 5/15/2019, 9:02:42 AM  
Duration: 6 minutes 38 seconds  
Correlation ID: dab40746-4759-429b-abcd-8c7e0ac84cda

RESOURCE	TYPE	STATUS	OPERATION DETAILS
✓ Idemoclient1/init	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemoclient0/init	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemoclient1	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemoclient0	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemoclient1	Microsoft.Network/networkin...	Created	<a href="#">Operation details</a>
✓ monitoring	Microsoft.Resources/deploy...	OK	<a href="#">Operation details</a>
✓ Idemoclient0	Microsoft.Network/networkin...	Created	<a href="#">Operation details</a>
✓ Idemooss0/init	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemooss1/init	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemomds/init	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemomgs/init	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemooss0	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemooss1	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemomds	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemomgs	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemooss0	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemooss1	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemomds	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemomgs	Microsoft.Compute/virtualMa...	OK	<a href="#">Operation details</a>
✓ Idemooss1	Microsoft.Network/networkin...	Created	<a href="#">Operation details</a>
✓ Idemooss0	Microsoft.Network/networkin...	Created	<a href="#">Operation details</a>
✓ Idemomds	Microsoft.Network/networkin...	Created	<a href="#">Operation details</a>
✓ Idemomgs	Microsoft.Network/networkin...	Created	<a href="#">Operation details</a>
✓ Idemo-mgs	Microsoft.Network/publicIPa...	OK	<a href="#">Operation details</a>
✓ Idemoclient0	Microsoft.Network/publicIPa...	OK	<a href="#">Operation details</a>
✓ Idemoclient	Microsoft.Compute/availabil...	OK	<a href="#">Operation details</a>
✓ Idemovnet	Microsoft.Resources/deploy...	OK	<a href="#">Operation details</a>
✓ Idemooss	Microsoft.Compute/availabil...	OK	<a href="#">Operation details</a>
✓ pid-f3de12ff-b17c-5c6e-afff-67	Microsoft.Resources/deploy...	OK	<a href="#">Operation details</a>

In the "Outputs" screen,

mgsNID - this is the private IP address of the MGS

mgsDomainName - this is public hostname for MGS

gangliaURL - this is the URL to view the grid report

mountCommand - this is the command to mount lustre. All compute clients created in this deployment should mount. if not run command 'mount -a' on the client

Deployment

Search (Ctrl+)

Overview

Inputs

Outputs

Template

mgsNID

10.2.0.4

mgsDomainName

ldemo-6e00f8c34e.westus.cloudapp.azure.com

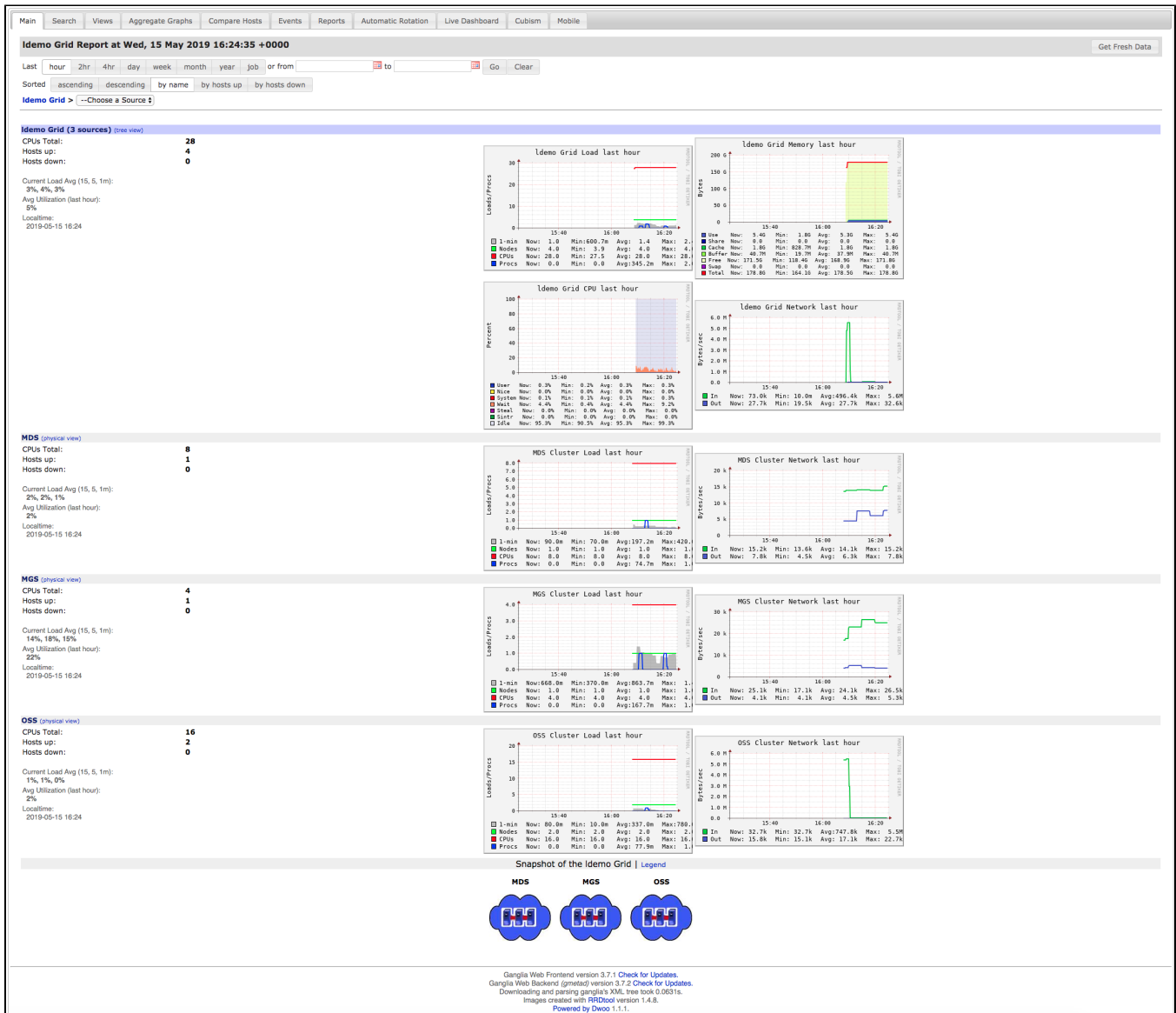
gangliaUrl

http://ldemo-6e00f8c34e.westus.cloudapp.azure.com/ganglia/

mountCommand

mount -t lustre 10.2.0.4@tcp/ldemo /your\_mount\_point\_directory

Copy and paste the "gangliaURL" on a different browser to view grid report



To access the Servers (MGS, MDS, OSS), we must go through MGS public IP

From the deployment complete screen "Overview", click on virtual machine name ending mgs. In this case "ldemomgs"

Overview

Inputs

Outputs

Template

✓

Your deployment is complete

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.

Deployment name: ddn-whamcloud-5345716.lustre\_on\_azure-20190515090242

Subscription: [Pay-As-You-Go](#)

Resource group: [demo](#)

DEPLOYMENT DETAILS [\(Download\)](#)

Start time: 5/15/2019, 9:02:42 AM

Duration: 6 minutes 38 seconds

Correlation ID: dab40746-4759-429b-abcd-8c7e0ac84cda

RESOURCE	TYPE	STATUS	OPERATION DETAILS
✓ <a href="#">Idemoclient1/init</a>	Microsoft.Compute/virtualMachines/extensions	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemoclient0/init</a>	Microsoft.Compute/virtualMachines/extensions	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemoclient1</a>	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemoclient0</a>	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemoclient1</a>	Microsoft.Network/networkInterfaces	Created	<a href="#">Operation details</a>
✓ <a href="#">monitoring</a>	Microsoft.Resources/deployments	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemoclient0</a>	Microsoft.Network/networkInterfaces	Created	<a href="#">Operation details</a>
✓ <a href="#">Idemooss0/init</a>	Microsoft.Compute/virtualMachines/extensions	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemooss1/init</a>	Microsoft.Compute/virtualMachines/extensions	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemomds/init</a>	Microsoft.Compute/virtualMachines/extensions	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemomgs/init</a>	Microsoft.Compute/virtualMachines/extensions	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemooss0</a>	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemooss1</a>	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemomds</a>	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
✓ <a href="#">Idemomgs</a>	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>

Click to view MGS VM access info

→

On MGS VM screen,

Click "Connect" to view info on the right

Choose "SSH", then copy the Login command and paste on to your terminal

Idemomgs

Virtual machine

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Disks

Size

Security

Extensions

Continuous delivery (Preview)

Availability set

Configuration

Connect

Start

Restart

Stop

Capture

Delete

Refresh

Resource group (change) : demo

Status : Running

Location : West US

Subscription (change) : Pay-As-You-Go

Subscription ID : 5cfe6ec-d6a2-4fbb-b3c8-648197ae5b1b

Tags (change) : LustreType : mgt

Computer name

Operating system

Size

Public IP address

Private IP address

Virtual network/subnet

DNS name

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average)

1%

0.8%

0.6%

Network (total)

2.86MiB

1.91MiB

Click connect to view info on the right

→

Idemomgs

To improve security, enable just-in-time access on this VM. →

RDP

SSH

To connect to your virtual machine via SSH, select an IP address, optionally change the port number, and use one of the following commands:

\* IP address

DNS name (Idemo-6e00f8c34e.westus.cloudapp.azure.com)

\* Port number

22

Login using VM local account

ssh azureuser@Idemo-6e00f8c34e.westus.cloudapp.azure.com

Inbound traffic to the Public IP address may be blocked. You can update inbound port rules in the **VM Networking** page.

You can troubleshoot VM connection issues by opening the **Diagnose and solve problems** page.

Copy and paste to a terminal

→

If you need to access the other nodes in the cluster and you have used the key option, you have two options.

The best method is to run a ssh-agent and ssh with forwarding enabled so the MGS node can get the private key from your workstation.

The other less secure way as you make you are exposing your private key would be to copy your private key to the MGS so it can be used to access the other nodes.

Similar method can be used to access 'client0' (client0 acts as the gateway to access all compute clients)