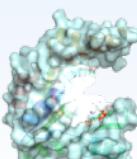




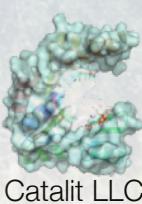
WELCOME BACK!



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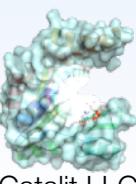
AGENDA

- **09:30 am - 11:20 am AWS + Case Studies**
- 11:20 am - 11:30 am Break
- **11:30 am - 01:00 pm Case Studies**
- 01:00 pm - 02:00 pm Lunch
- **02:00 pm - 03:50 pm Team Projects**
- 03:50 pm - 04:00 pm Break
- **04:00 pm - 05:15 pm Presentations**
- 05:15 pm - 05:30 pm Wrap up



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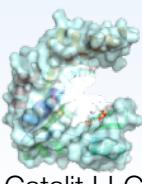
QUICK REVIEW



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AWS

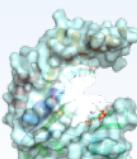
- Cloud computing
- As a service
- Pay for what you use
- Building blocks



AWS

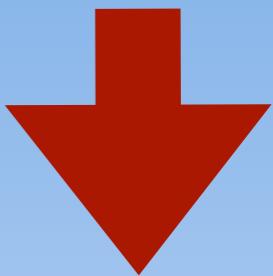
Search services Group A-Z

 Compute EC2 EC2 Container Service Lightsail  Elastic Beanstalk Lambda	 Developer Tools CodeCommit CodeBuild CodeDeploy CodePipeline	 Analytics Athena EMR CloudSearch Elasticsearch Service Kinesis Data Pipeline QuickSight 	 Application Services Step Functions SWF API Gateway AppStream Elastic Transcoder
 Storage S3 Elastic File System Glacier Storage Gateway	 Management Tools CloudWatch CloudFormation CloudTrail Config OpsWorks Service Catalog Trusted Advisor	 Artificial Intelligence Lex Polly Rekognition Machine Learning	 Messaging SQS SNS SES
 Database RDS DynamoDB ElastiCache Redshift	 Security, Identity & Compliance IAM Inspector Certificate Manager Directory Service WAF Compliance Reports	 Internet Of Things AWS IoT	 Business Productivity WorkDocs WorkMail
 Networking & Content Delivery VPC CloudFront Direct Connect Route 53	 Game Development GameLift	 Mobile Services Mobile Hub	 Desktop & App Streaming WorkSpaces AppStream 2.0



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AWS FIRST STEPS



Screenshot of the AWS Management Console homepage:

The top navigation bar includes: Services (dropdown), Resource Groups (dropdown), EC2, S3, RDS, EMR, IAM, a star icon, a bell icon, Datawe..., a dropdown menu for Regions (highlighted with a red box) showing 'N. Virginia' (highlighted with a red box), and Support (dropdown).

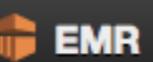
The main content area shows:

- AWS services**: A search bar with placeholder "Find a service by name (for example, EC2, S3, Elastic Beanstalk)." and a magnifying glass icon.
- Recently visited services**: A list with EC2 (highlighted with a red box), EMR, Elastic Beanstalk, and S3.
- All services**: A link to view all available AWS services.
- Featured next steps**: Two items:
 - Manage your spend**: Description: Get real-time billing alerts based on your cost and usage budgets. [Start now](#).
 - Get best practices**: Description: Use AWS Trusted Advisor for security, performance, cost and availability best practices. [Start now](#).



Services

Resource Groups



EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

Scheduled Instances

Dedicated Hosts

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Resources



You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

0 Running Instances

0 Elastic IPs

0 Dedicated Hosts

0 Snapshots

0 Volumes

0 Load Balancers

0 Key Pairs

1 Security Groups

0 Placement Groups

Build and run distributed, fault-tolerant applications in the cloud with [Amazon Simple Workflow Service](#).



Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

[Launch Instance](#)

Note: Your instances will launch in the US East (N. Virginia) region

Service Health



Scheduled Events



Service Status:

US East (N. Virginia):

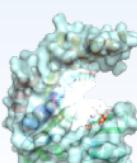
US East (N. Virginia):

No events

This service is operating normally

Availability Zone Status:

us-east-1a:



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[Create Security Group](#)

Actions ▾

Filter by tags and attributes or search by keyword

Create Security Group

X

Security group name ⓘ dataweekends**Description** ⓘ dataweekends**VPC** ⓘ vpc-b021edd6 (default)

Security group rules:

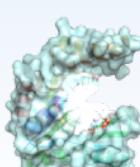
Inbound**Outbound**

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	
SSH	TCP	22	Anywhere ⓘ 0.0.0.0/0	
HTTPS	TCP	443	Anywhere ⓘ 0.0.0.0/0	
Custom TCP Rule	TCP	8888	Anywhere ⓘ 0.0.0.0/0	
Custom TCP Rule	TCP	6666	Anywhere ⓘ 0.0.0.0/0	
Custom TCP Rule	TCP	8000	Anywhere ⓘ 0.0.0.0/0	

[Cancel](#)[Create](#)

Group ID sq-b2a5e2ct

VPC ID vpc-b021edd6



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Services ▾

Resource Groups ▾



EC2 Dashboard

Events

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INSTANCES

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NETWORK & SECURITY

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You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

0 Running Instances

0 Elastic IPs

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0 Snapshots

0 Volumes

0 Load Balancers

0 Key Pairs

1 Security Groups

0 Placement Groups

Build and run distributed, fault-tolerant applications in the cloud with [Amazon Simple Workflow Service](#).



Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

[Launch Instance](#)

Note: Your instances will launch in the US East (N. Virginia) region

Service Health



Scheduled Events



Service Status:

US East (N. Virginia):

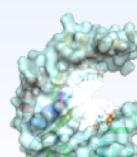
US East (N. Virginia):

No events

This service is operating normally

Availability Zone Status:

us-east-1a:



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[Create Key Pair](#)[Import Key Pair](#)[Delete](#) Filter by attributes or search by keyword

You do not have any Key Pairs in this region.

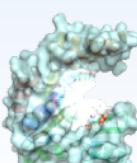
Click the "Create Key Pair" button to create your first Key Pair.

[Create Key Pair](#)

Create Key Pair



Key pair name:

[Cancel](#)[Create](#)

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[Create Key Pair](#)[Import Key Pair](#)[Delete](#) Filter by attributes or search by keyword

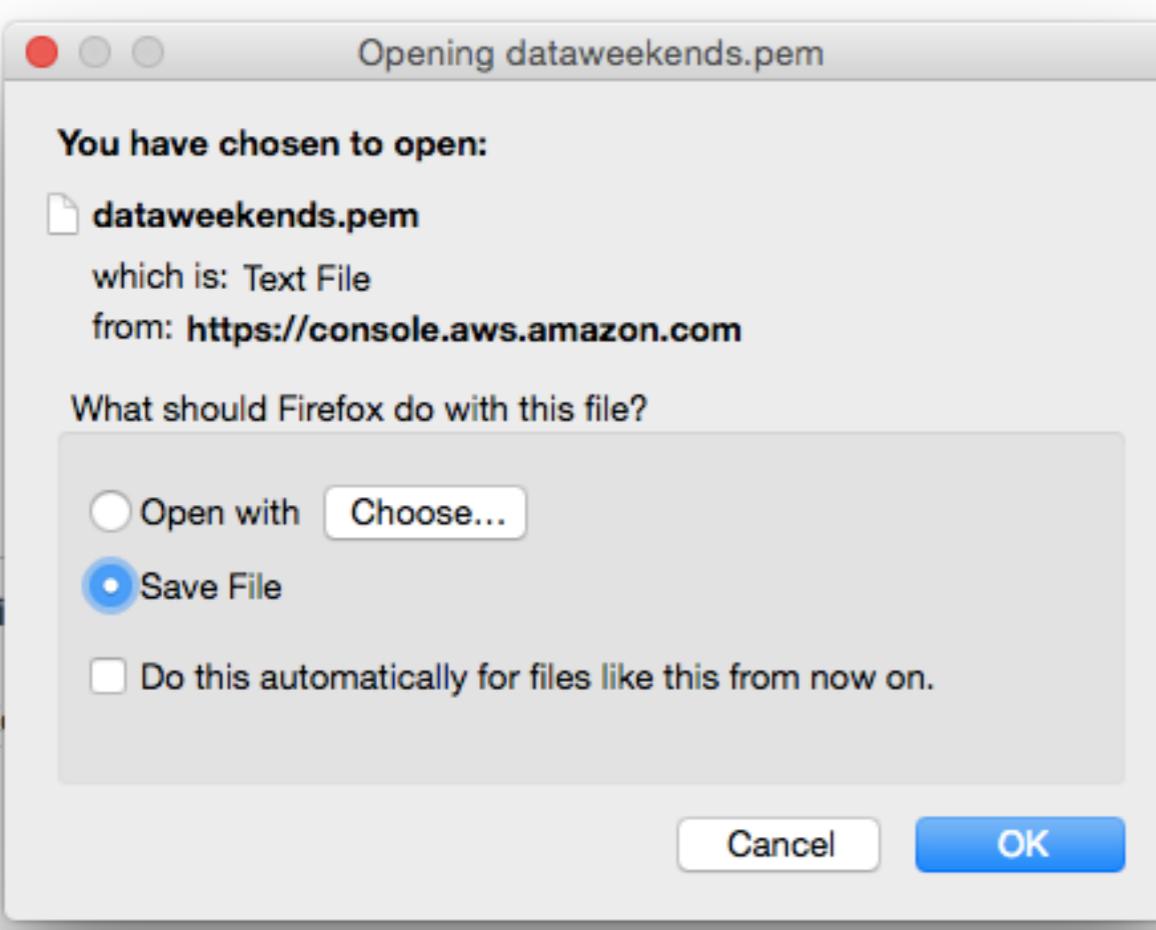
?

 Key pair name

Fingerprint

 dataweekends

1e:57:f3:c9:1f:aa:f5:5a:b6:59:94:3f:62:59:c3:52:63:0f:1c:62



Key Pa

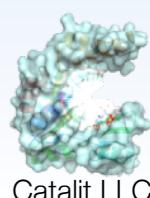
K

[Create Key Pair](#)[Import Key Pair](#)[Delete](#) Filter by attributes or search by keyword Key pair name

Fingerprint

 dataweekends

1e:57:f3:c9:1f:aa:f5:5a:b6:59:94:3f:62:59:c3:52:63:0f:1c:62



CHECKPOINT

Servi^{ces} | Resource Groups | EC2 | S3 | RDS | EMR | IAM | ★ | Dataweekends | 🔍 | Account Att... | Events | Tags | Reports | Limits | INSTANCES | Instances | Spot Requests | Reserved Instances | Scheduled Instances | Dedicated Hosts | IMAGES | AMIs | Bundle Tasks | ELASTIC BLOCK STORE | Volumes | Snapshots | NETWORK & SECURITY | Security Groups | Elastic IPs | Placement Groups | EC2 Dashboard | Resources | Create Instance | Service Health | Scheduled Events | AWS Market... | Supported Platfo... | VPC | Default VPC | vpc-b021edd6 | Resource ID leng... | Additional I... | Getting Started | Documentation | All EC2 Resourc... | Forums | Pricing | Contact Us | Find free softwa... | Marketplace fro... | Or try these pop... | Cisco Cloud Ser... | Direct Connect M... | Catalit LLC

You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

0 Running Instances	0 Elastic IPs
0 Dedicated Hosts	0 Snapshots
0 Volumes	0 Load Balancers
1 Key Pairs	2 Security Groups
0 Placement Groups	

Build and run distributed, fault-tolerant applications in the cloud with [Amazon Simple Workflow Service](#).

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the US East (N. Virginia) region

Service Status:

US East (N. Virginia): This service is operating normally

US East (N. Virginia):

No events

CHECKPOINT

Servi^{ces} | Resource Groups | EC2 | S3 | RDS | EMR | IAM | ★ | Dataweekends | 🔍 | Account Attribut... | Supported Platfo... | VPC | Default VPC | vpc-b021edd6 | Resource ID leng... | Additional Infor... | Getting Started | Documentation | All EC2 Resourc... | Forums | Pricing | Contact Us | AWS Marketpla... | Find free software | Marketplace from | Or try these pop... | Cisco Cloud Ser... | Direct Connect N...

EC2 Dashboard

Events
Tags
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Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Scheduled Instances
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Build and run distributed, fault-tolerant applications in the cloud with [Amazon Simple Workflow Service](#).

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the US East (N. Virginia) region

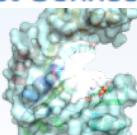
Service Health

Service Status:

US East (N. Virginia):
This service is operating normally

Scheduled Events

US East (N. Virginia):
No events



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Services

Resource Groups



EC2



S3



RDS



EMR



IAM



1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can search for an AMI in the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

 Search community AMIs

My AMIs

AWS Marketplace

Community AMIs

▼ Operating system

 Amazon Linux Cent OS Debian Fedora Gentoo OpenSUSE**amzn-ami-hvm-2016.09.0.20161028-x86_64-gp2 - ami-b73b63a0**

Amazon Linux AMI 2016.09.0.20161028 x86_64 HVM GP2

Root device type: ebs Virtualization type: hvm

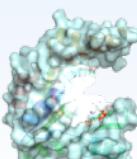
suse-sles-12-sp2-v20161104-hvm-ssd-x86_64 - ami-6f86a478

SUSE Linux Enterprise Server 12 SP2 (HVM, 64-bit, SSD-Backed)

Root device type: ebs Virtualization type: hvm

RHEL-7.3_HVM_GA-20161026-x86_64-1-Hourly2-GP2 - ami-b63769a1

Provided by Red Hat, Inc.



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Services ▾ Resource Groups ▾

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N. Virginia ▾

Support ▾

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by:

All instance types ▾

Current generation ▾

Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

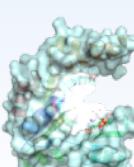
	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High

Cancel

Previous

Review and Launch

Next: Configure Instance Details



1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances (i) Launch into Auto Scaling Group (i)

Purchasing option (i) Request Spot instances

Network (i) vpc-b021edd6 (default) C Create new VPC

Subnet (i) No preference (default subnet in any Availability Zone) C Create new subnet

Auto-assign Public IP (i) Use subnet setting (Enable)

IAM role (i) None C Create new IAM role

Shutdown behavior (i) Stop

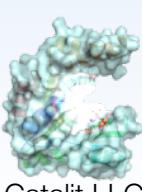
Enable termination protection (i) Protect against accidental termination

Monitoring (i) Enable CloudWatch detailed monitoring
Additional charges apply.

Tenancy (i) Shared - Run a shared hardware instance
Additional charges will apply for dedicated tenancy.

Advanced Details

Cancel Previous Review and Launch Next: Add Storage





Services

Resource Groups

EC2

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N. Virginia

Support

1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review

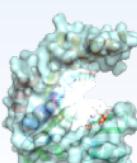
Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/sda1	snap-4c1a22a6	20	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#)[Previous](#)[Review and Launch](#)[Next: Add Tags](#)

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1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Select an existing security group

Security Group ID	Name	Description	Actions
<input checked="" type="checkbox"/> sg-0ba3e476	dataweekends	dataweekends	Copy to new
<input type="checkbox"/> sg-b2a5e2cf	default	default VPC security group	Copy to new

Inbound rules for sg-0ba3e476 (Selected security groups: sg-0ba3e476)

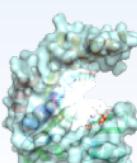


Type <i>i</i>	Protocol <i>i</i>	Port Range <i>i</i>	Source <i>i</i>
Custom TCP Rule	TCP	8888	0.0.0.0/0
Custom TCP Rule	TCP	8000	0.0.0.0/0
Custom TCP Rule	TCP	6666	0.0.0.0/0
SSH	TCP	22	0.0.0.0/0

[Cancel](#)

[Previous](#)

[Review and Launch](#)



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Dataweekends ▾

N. Virginia ▾

Support ▾

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.



⚠ Improve your instances' security. Your security group, dataweekends, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)



Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-40d28157

Free tier

eligible

Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root Device Type: ebs Virtualization type: hvm

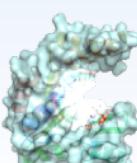
Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

Security Group ID	Name	Description
sg-0ba3e476	dataweekends	dataweekends

All selected security groups inbound rules

[Cancel](#)
[Previous](#)
[Launch](#)


Catalit LLC

nch

can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Select an existing key pair or create a new key pair X

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair

Select a key pair

dataweekends

I acknowledge that I have access to the selected private key file (dataweekends.pem), and that without this file, I won't be able to log into my instance.

Cancel

Launch Instances

Name

dataweekends

Description

dataweekends



Services ▾

Resource Groups ▾



EC2



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IAM



Dataweekends ▾

N. Virginia ▾

Support ▾

Launch Status

✓ Your instances are now launching

The following instance launches have been initiated: [i-03128b8cccd903041e](#) [View launch log](#)

ℹ Get notified of estimated charges

Create [billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ Here are some helpful resources to get you started

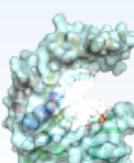
- [How to connect to your Linux instance](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: User Guide](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

[Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)

[Create and attach additional EBS volumes](#) (Additional charges may apply)

[Manage security groups](#)

[View Instances](#)

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Services ▾ | Resource Groups ▾ | EC2 | S3 | RDS | EMR | IAM | ★

EC2 Dashboard | Events | Tags | Reports | Limits

INSTANCES | Instances | Spot Requests | Reserved Instances | Scheduled Instances | Dedicated Hosts

IMAGES | AMIs | Bundle Tasks

ELASTIC BLOCK STORE | Volumes | Snapshots

NETWORK & SECURITY | Security Groups | Elastic IPs | Placement Groups | Key Pairs | Network Interfaces

LOAD BALANCING | Load Balancers | Target Groups

Launch Instance | Connect | Actions ▾

Filter by tags and attributes or search by keyword

1 to 1 of 1

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-03128b8cccd903041e	t2.micro	us-east-1d	pending	Initializing	None		-

Instance: i-03128b8cccd903041e Private IP: 172.31.58.249

Description | Status Checks | Monitoring | Tags

Instance ID	i-03128b8cccd903041e	Public DNS	-
Instance state	pending	Public IP	-
Instance type	t2.micro	Elastic IPs	
Private DNS	ip-172-31-58-249.ec2.internal	Availability zone	us-east-1d
Private IPs	172.31.58.249	Security groups	dataweekends . view inbound rules

Servic... | Resource Groups | EC2 | S3 | RDS | EMR | IAM | Dataweekends | N. Virginia | Support

EC2 Dashboard | Events | Tags | Reports | Limits

INSTANCES | Instances | Spot Requests | Reserved Instances | Scheduled Instances | Dedicated Hosts

IMAGES | AMIs | Bundle Tasks

ELASTIC BLOCK STORE | Volumes | Snapshots

NETWORK & SECURITY | Security Groups | Elastic IPs | Placement Groups | Key Pairs | Network Interfaces

LOAD BALANCING | Load Balancers | Target Groups

Launch Instance | Connect | Actions | Filter by tags and attributes or search by keyword | 1 to 1 of 1 | ? | Refresh | Settings | Help

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-03128b8cccd903041e	t2.micro	us-east-1d	running	Initializing	None	ec2-54-83-145-128.co...	54.83.145.128

Instance: i-03128b8cccd903041e Public DNS: ec2-54-83-145-128.compute-1.amazonaws.com

Description | Status Checks | Monitoring | Tags

Instance ID	i-03128b8cccd903041e	Public DNS	ec2-54-83-145-128.compute-1.amazonaws.com
Instance state	running	Pub... IP	54.83.145.128
Instance type	t2.micro	Elastic IP	
Private DNS	ip-172-31-58-249.ec2.internal	Availability zone	us-east-1d
Private IPs	172.31.58.249	Security groups	dataweekends, view inbound rules

TERMINAL

- cd Downloads
- chmod 400 dataweekends.pem
- ssh -i dataweekends.pem ubuntu@

```
Welcome to Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-45-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.
```

```
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/*copyright.
```

```
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.
```

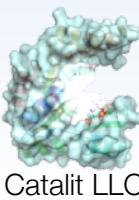
```
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.
```

```
ubuntu@ip-172-31-58-249:~$
```



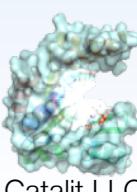
IN SSH

- screen
- source activate dataweekends-dladvanced-gpu
- jupyter notebook
- CTRL + a + d (to detach)
- screen -r (to re-attach)



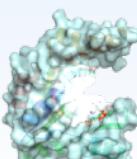
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```
ubuntu@ip-10-102-177-251:~$ ls
anaconda2 certs DL_Advanced_Workshop-12-03-2016
ubuntu@ip-10-102-177-251:~$ source activate dataweekends-dladvanced-gpu
(dataweekends-dladvanced-gpu) ubuntu@ip-10-102-177-251:~$ jupyter notebook
[I 09:50:44.097 NotebookApp] [nb_conda_kernels] enabled, 4 kernels found
[I 09:50:44.101 NotebookApp] Writing notebook server cookie secret to /run/user
[I 09:50:44.773 NotebookApp] ✓ nbpresent HTML export ENABLED
[W 09:50:44.773 NotebookApp] ✗ nbpresent PDF export DISABLED: No module named
[I 09:50:44.779 NotebookApp] [nb_conda] enabled
[I 09:50:44.848 NotebookApp] [nb_anacondacloud] enabled
[I 09:50:44.851 NotebookApp] Serving notebooks from local directory: /home/ubu
[I 09:50:44.851 NotebookApp] 0 active kernels
[I 09:50:44.851 NotebookApp] The Jupyter Notebook is running at: https://[all]
[I 09:50:44.852 NotebookApp] Use Control-C to stop this server and shut down a
```



IN BROWSER

- go to <https://<ip-of-your-machine>:8888>
- accept security exception
- log in with password: "dataweekends"
- voilà!



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SCREENSHOT

⚠ <https://50.16.55.190:8888/tree>

 jupyter

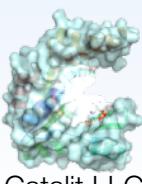
Files Running Clusters Conda

Select items to perform actions on them.

<input type="checkbox"/>			
<input type="checkbox"/>		2b_other_neural_networks	
<input type="checkbox"/>		6_case_studies	
<input type="checkbox"/>		data	
<input type="checkbox"/>		setup	
<input type="checkbox"/>		solutions_don_t_open	
<input type="checkbox"/>		0_deep_learning_refresh.ipynb	
<input type="checkbox"/>		1a_intro_to_tensorflow.ipynb	
<input type="checkbox"/>		1b_linear_regression.ipynb	

TERMINATE INSTANCE

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with links like EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES (with sub-links: Instances, Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts), and IMAGES. The main area has tabs for Launch Instance, Connect, and Actions. The Actions tab is active, and its dropdown menu is open, showing options: Connect (Get Windows Password), Launch More Like This, Instance State (with sub-options Start, Stop, Reboot, Terminate), Instance Settings, Image, Networking, and CloudWatch Monitoring. A tooltip for 'Terminate' says 'Delete the instance and release all associated resources'. The instance details on the right show an instance named 'i-03128b8c' in the 'running' state.



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[Launch Instance](#)[Connect](#)[Actions ▾](#) Filter by tags and attributes or search by keyword

?

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
	i-03128b8cccd903041e	t2.micro	us-east-1d	● running	✓ 2/2 checks ...	None	 ec2-54-83-145-128.compute-1.amazonaws.com

Terminate Instances

X



Warning

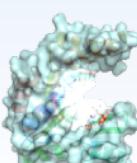
On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

i-03128b8cccd903041e (ec2-54-83-145-128.compute-1.amazonaws.com)

[Cancel](#)[Yes, Terminate](#)

Instance: i-03128b8cccd903041e Public DNS: ec2-54-83-145-128.compute-1.amazonaws.com



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LAB

1. create security group
(dataweekends: 22, 443,
8888, 6006, 8000)
2. create key (dataweekends)
3. start instance (T2.micro, 20
GB) ami-35d87423
4. connect via ssh
5. jupyter notebook
6. screen
7. open in browser
8. post screenshot on slack!
9. terminate instance