VMD & NAMD on Elastic Compute Cloud (EC2) instance of Amazon Web Services (AWS)









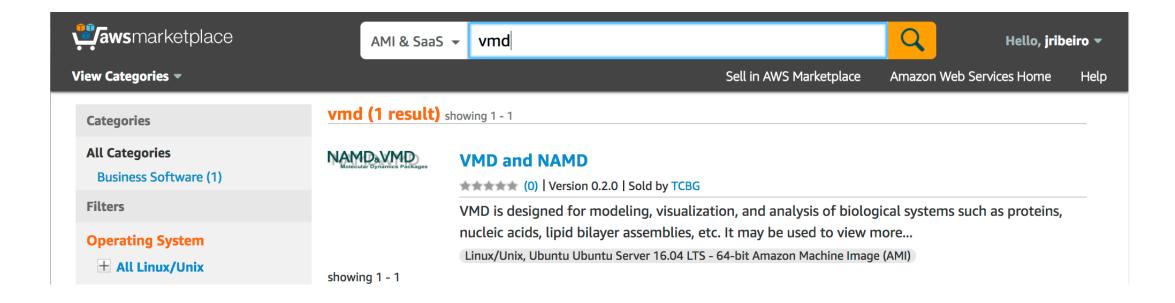


(once you have created your AWS account)

AMI - Amazon Machine Image

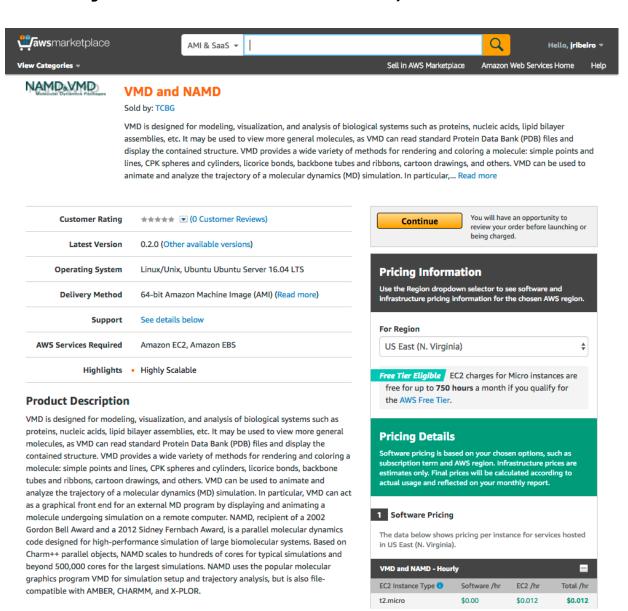
Amazon Marketplace - https://aws.amazon.com/marketplace/

Search for "VMD" or "NAMD" or go directly to VMD and NAMD AMI link



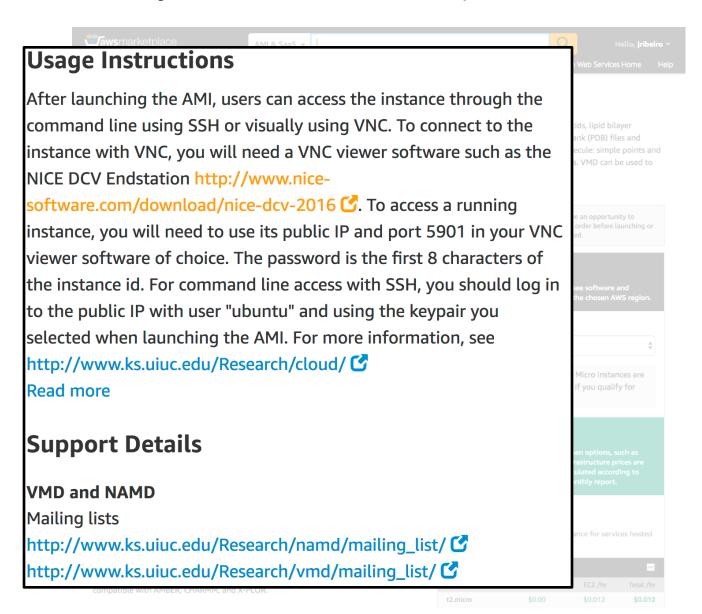
Start VMD & NAMD AMI (once you have created your AWS account)

- Description of the AMI
- AWS region
 - Pricing
 - Instance types

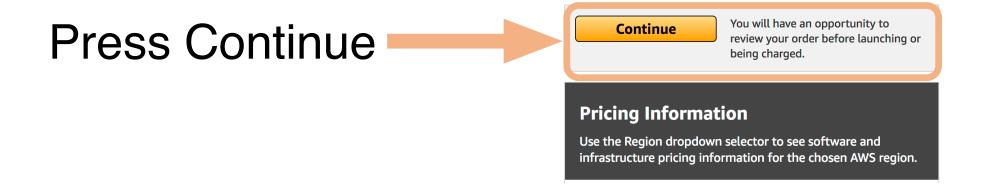


(once you have created your AWS account)

- Description of the AMI
- AWS region
 - Pricing
 - Instance types
- Usage instructions
- Support details

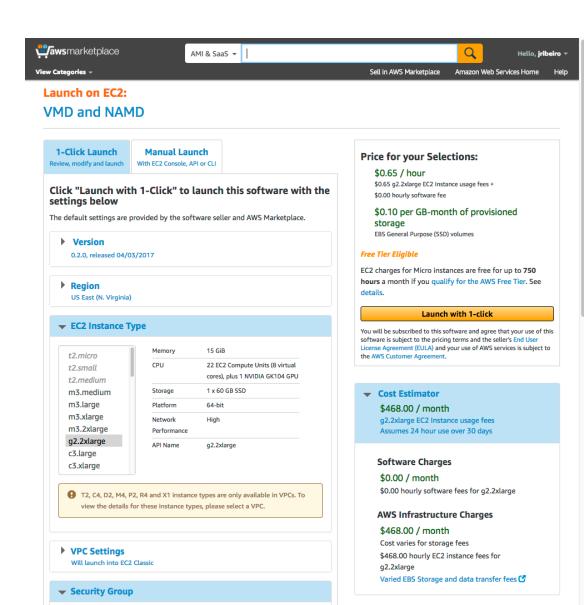


(once you have created your AWS account)



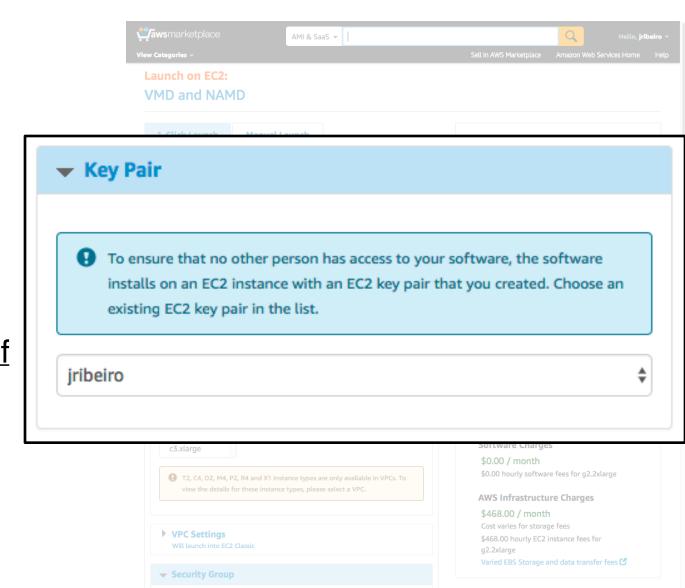
(once you have created your AWS account)

- Pricing
- Instance type selection
- All default options of the AMI



(once you have created your AWS account)

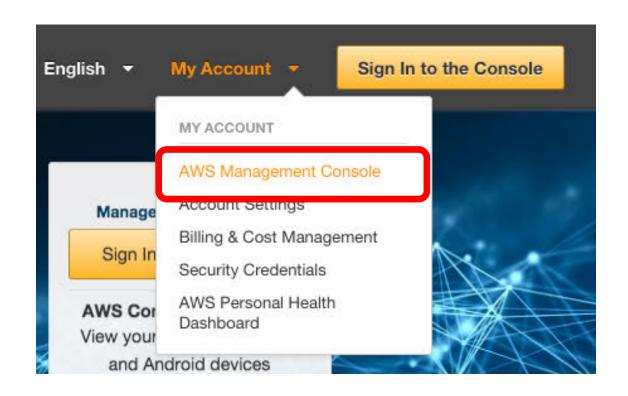
- Pricing
- Instance type selection
- All default options of the AMI
- Select security key pair (<u>bottom of</u> the page)
 - If we don't have one?!



Generate a Key Pair file (once you have created your AWS account)

Go to <u>aws.amazon.com</u>

AWS Management Console

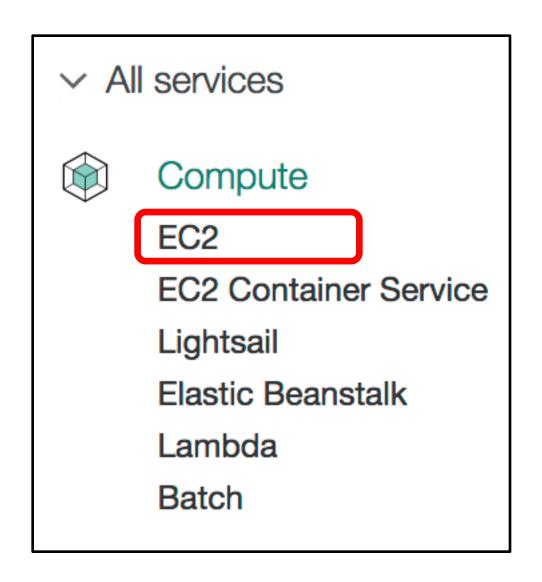


Generate a Key Pair file

(once you have created your AWS account)

Go to aws.amazon.com

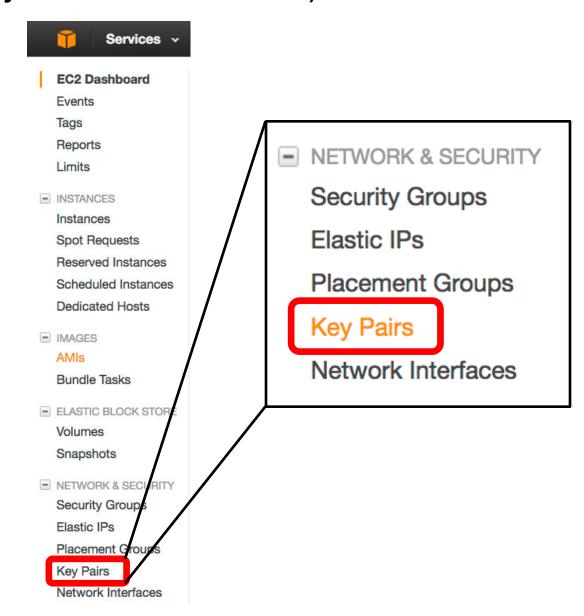
- AWS Management Console
- "All services" > Compute > "EC2"



Generate a Key Pair file (once you have created your AWS account)

Go to aws.amazon.com

- AWS Management Console
- "All services" > Compute > "<u>EC2</u>"
- "Network & Security" > Key Pairs



Generate a Key Pair file (once you have created your AWS account)

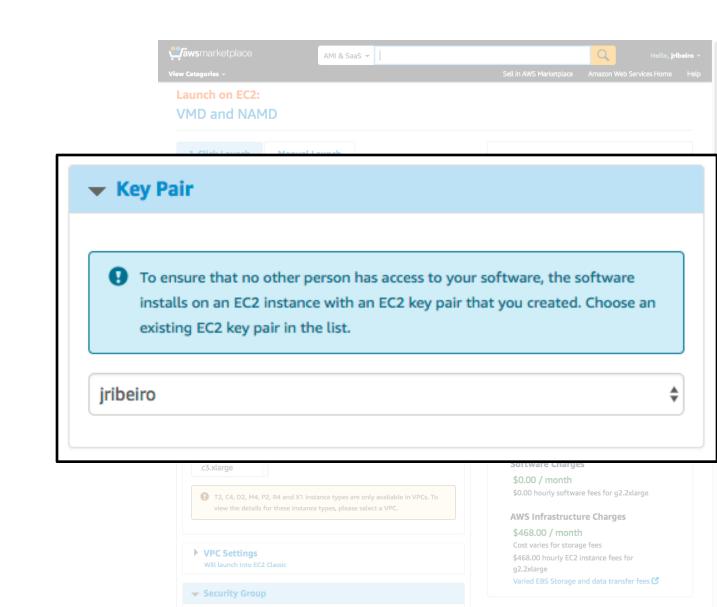
Go to aws.amazon.com

- AWS Management Console
- "All services" > Compute > "<u>EC2</u>"
- "Network & Security" > Key Pairs
- "Create Key Pair"
 - Save the *.pem file (important to transfer files)



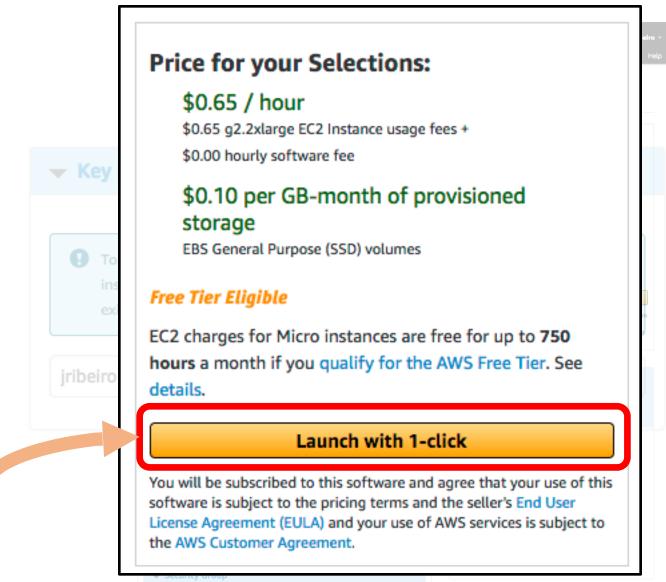
(once you have created your AWS account)

- Pricing
- Instance type selection
- All default options of the AMI
- Select security key pair
 - If we don't have one?!
 - We do have a *.pem file
 - Select you Key pair



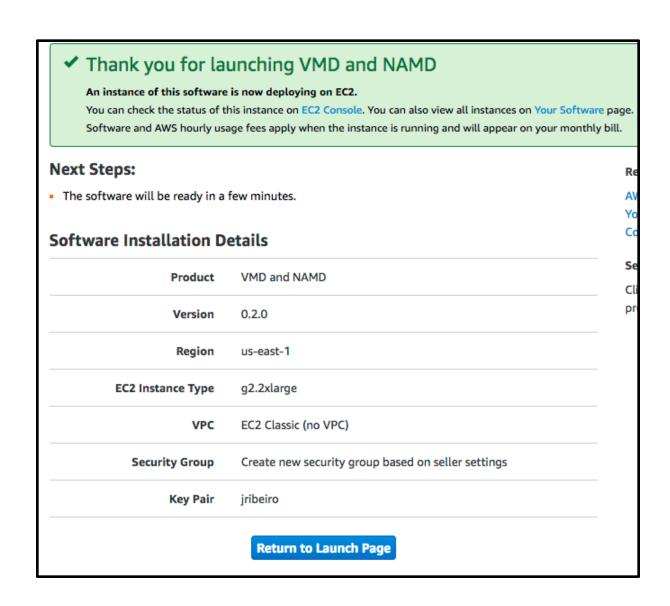
(once you have created your AWS account)

- Pricing
- Instance type selection
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 - Select you Key pair
- "Launch with 1-click"



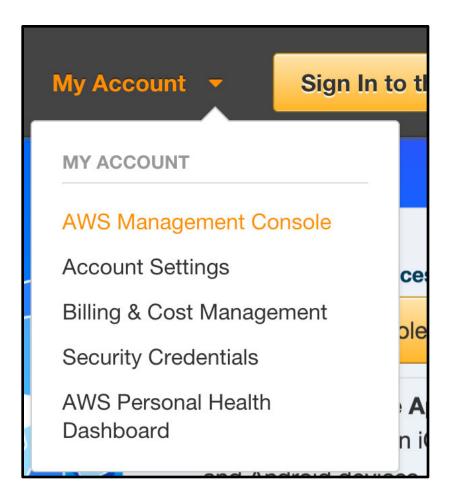
(once you have created your AWS account)

- Pricing
- Instance type selection
- All default options of the AMI
- Select security key pair
 - If we don't have one?!
 - We do have a *.pem file
 - Select you Key pair
- "Launch with 1-click"

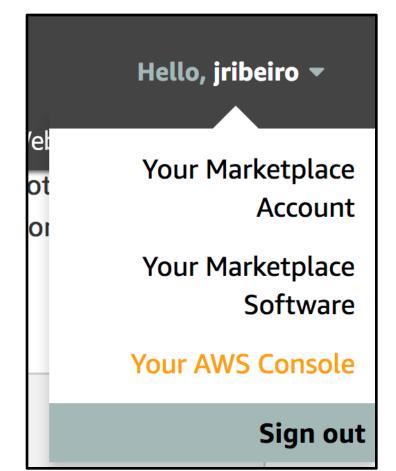


Go to your AWS console

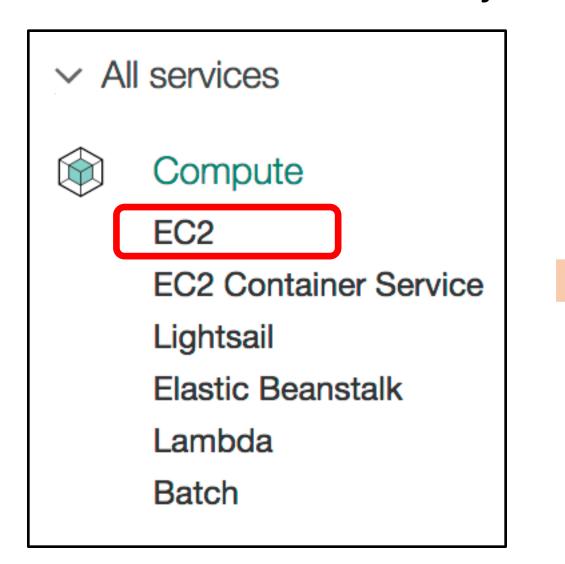
From AWS Website

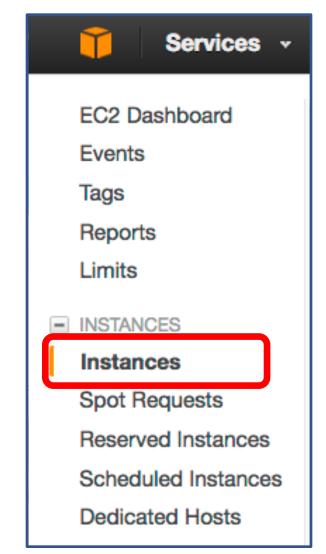


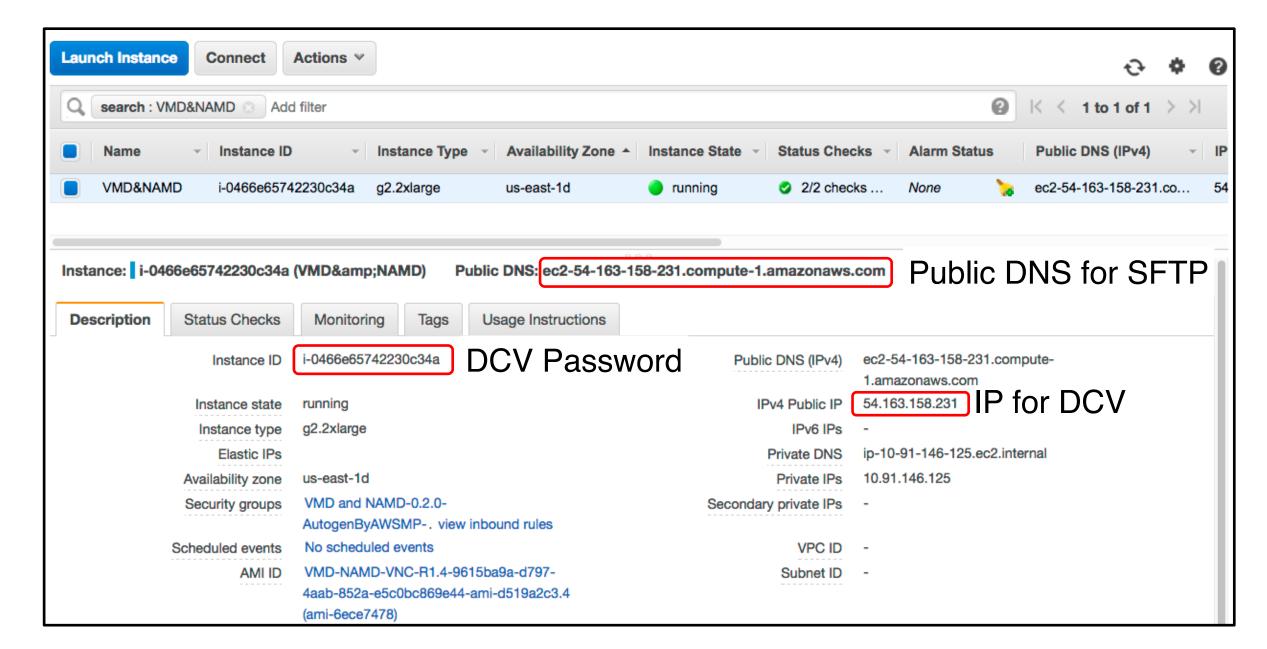
From AWS Marketplace



Go to your AWS console

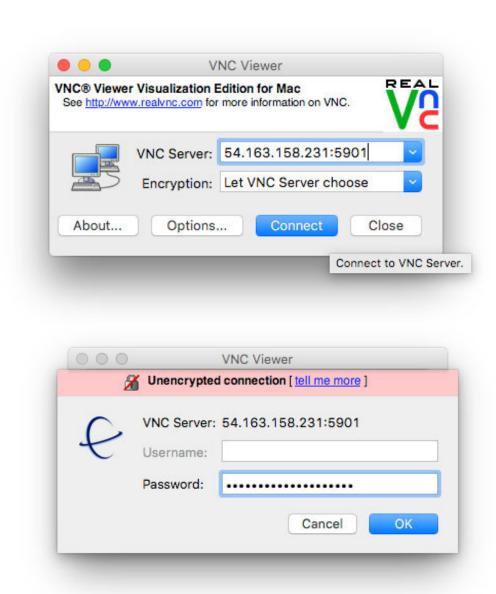




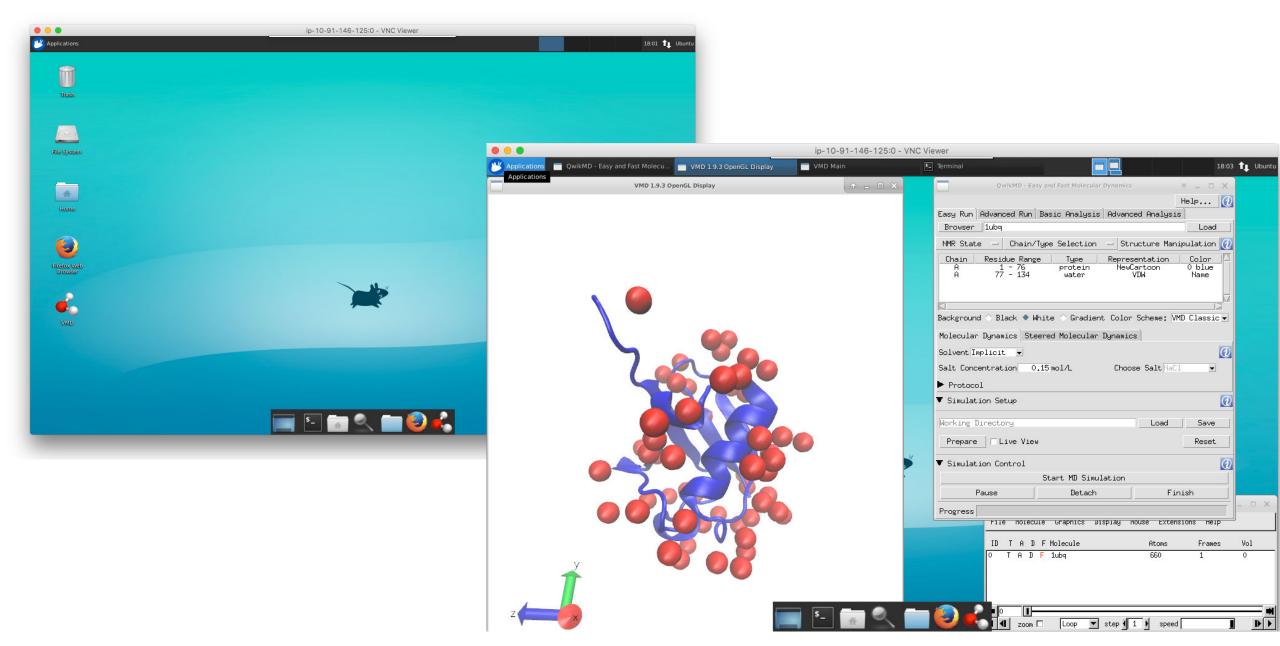


Once the instance is running:

- Open <u>NICE DCV Endstation</u>
 - http://www.nice-software.com
- VNC Server: <IP for DCV>:5901
- Connect
- Password: <Instance ID>

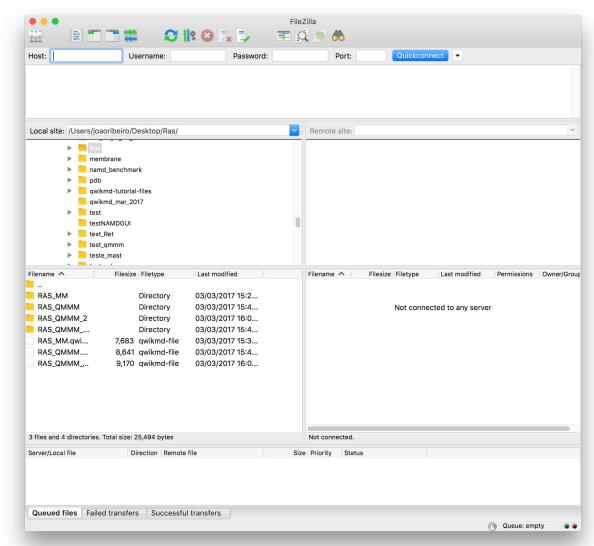


Enjoy It



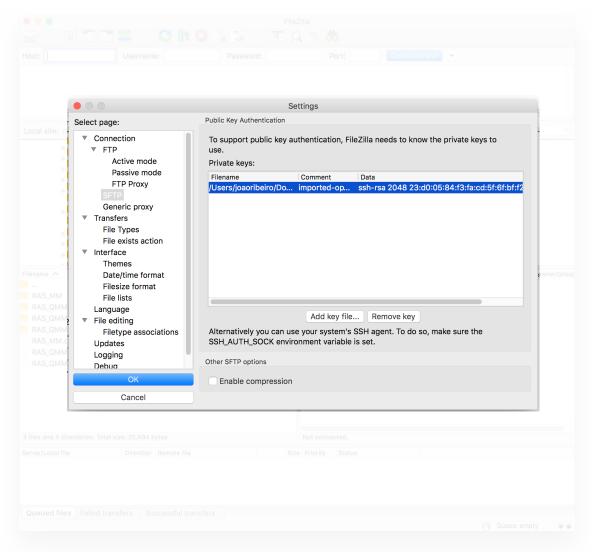
Using a SFTP program:

- <u>FileZilla</u> (Mac/Windows/Linux)
 - https://filezilla-project.org/



Using a SFTP program:

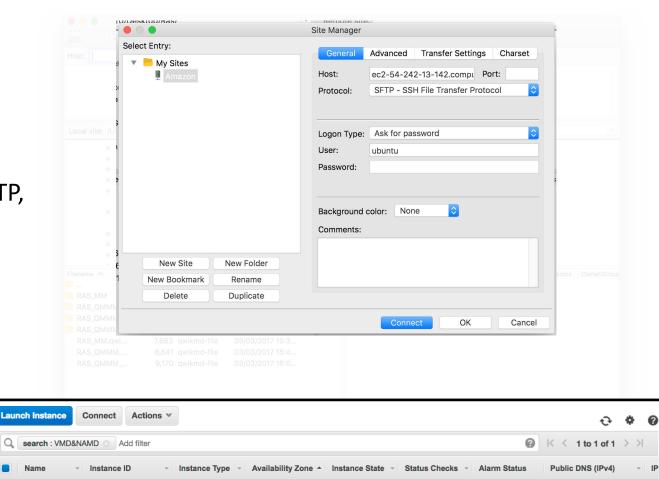
- <u>FileZilla</u> (Mac/Windows/Linux)
 - https://filezilla-project.org/
- Edit (Preferences) > Settings > Connection > SFTP,
 Click "Add key file"
 - Add the *.pem file created before
 - Press Ok



i-0466e65742230c34a

Using a SFTP program:

- <u>FileZilla</u> (Mac/Windows/Linux)
 - https://filezilla-project.org/
- Edit (Preferences) > Settings > Connection > SFTP,
 Click "Add key file"
 - Add the *.pem file created before
 - Press Ok
- File > Site Manager
 - Host: Public DNS
 - Protocol: SFTP
 - Logon Type: Ask for password
 - User: ubuntu
 - Password:<empty>



running

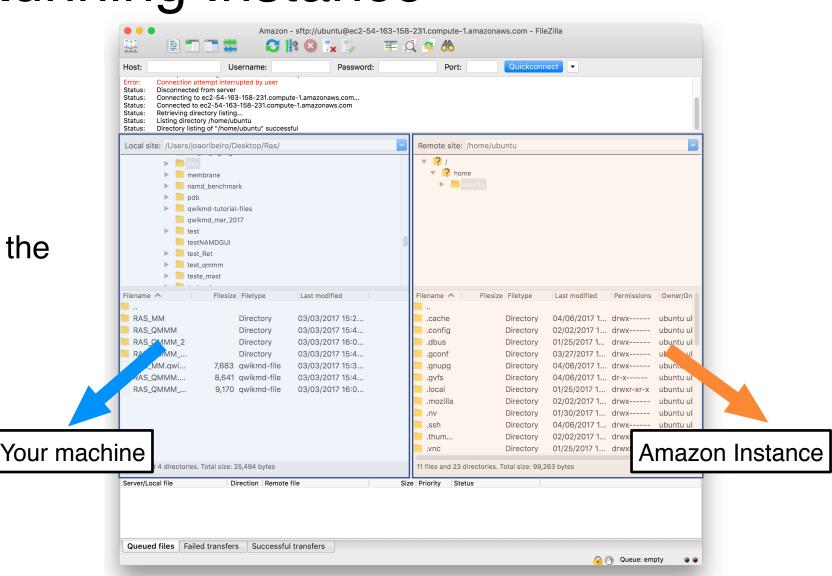
Public DNS ec2-54-163-158-231.compute-1.amazonaws.com

ec2-54-163-158-231.co...

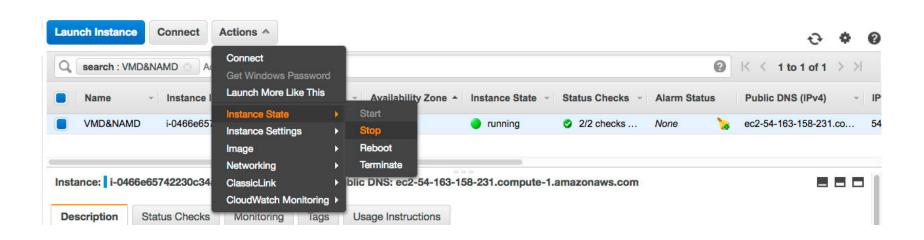
Public DNS for SFTP

To Transfer files:

 Drag & Drop files and folders from one side to the other



Stop and Terminate an Instance



Instance console:

- Actions > Instance State:
 - Stop
 - The same effect as shutting down a workstation.
 - No data is lost.
 - Storage charges

Terminate

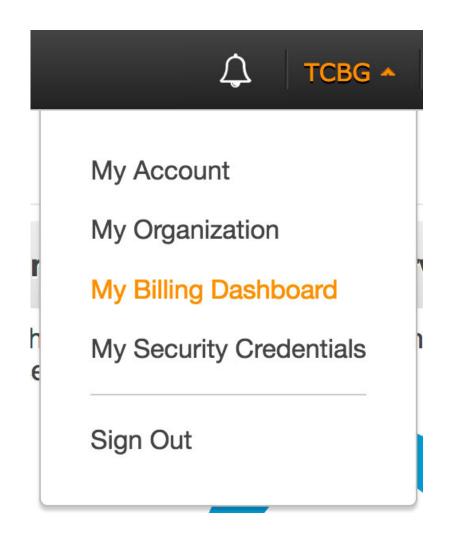
- Completely delete the instance.
- All data is lost.
- No storage charges

Budgets:

- Track costs with AWS use
- Send notifications when the bill is approaching the limit defined for the Amazon Cloud:

AWS website:

My Billing Dashboard

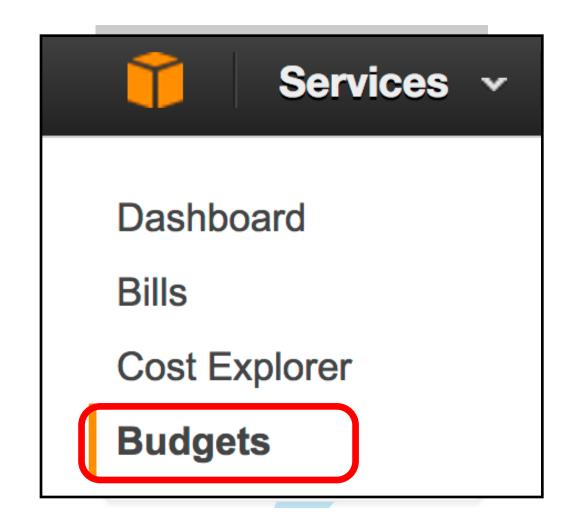


Budgets:

- Track costs with AWS use
- Send notifications when the bill is approaching the limit defined for the Amazon Cloud:

AWS website:

- My Billing Dashboard
- Budgets (left side bar)

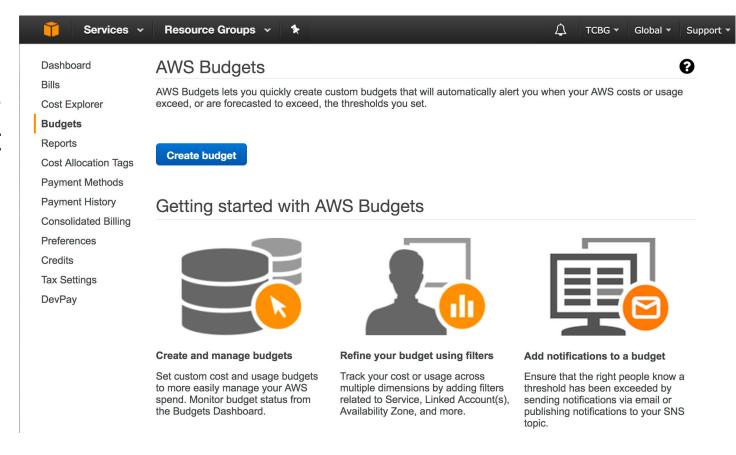


Budgets:

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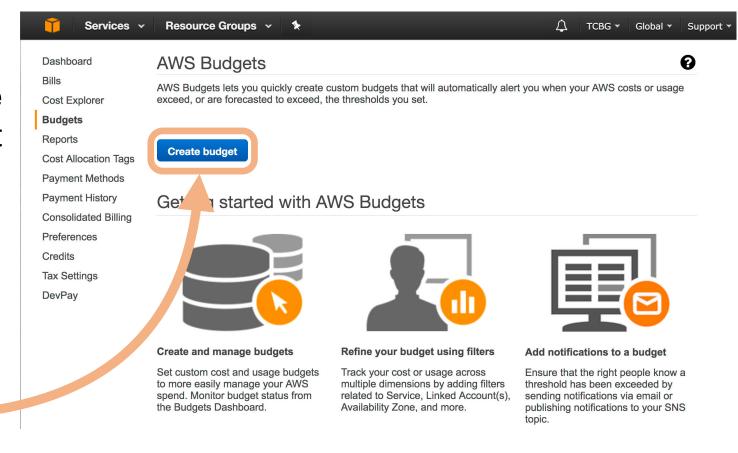


Budgets:

- Track costs with AWS use
- Send notifications when the bill is approaching the limit defined for the Amazon Cloud:

AWS website:

- My Billing Dashboard
- Budgets (left side bar)
- Create budget



From Amazon's website:

Create your AWS Budget

- Name your budget, specify the budgeted amount, and set the length of time the budget will be active.
- Refine your budget criteria by selecting optional filters.
- 3 Send notifications via email and SNS topic when a budget threshold is reached.

TCBG Urbana 2017 workshop values used as example

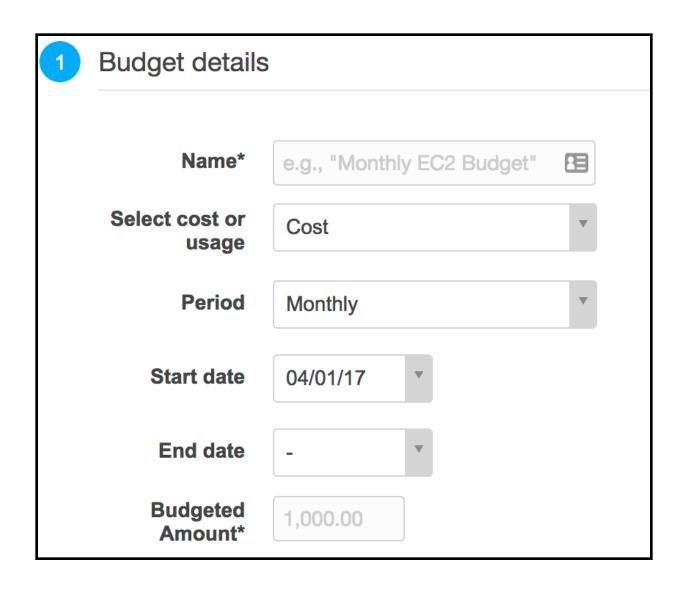
Budget details:

Name: Workshop (example)

Start date: 04/17/2017

End date: 04/21/2017

Budgeted Amount: \$50



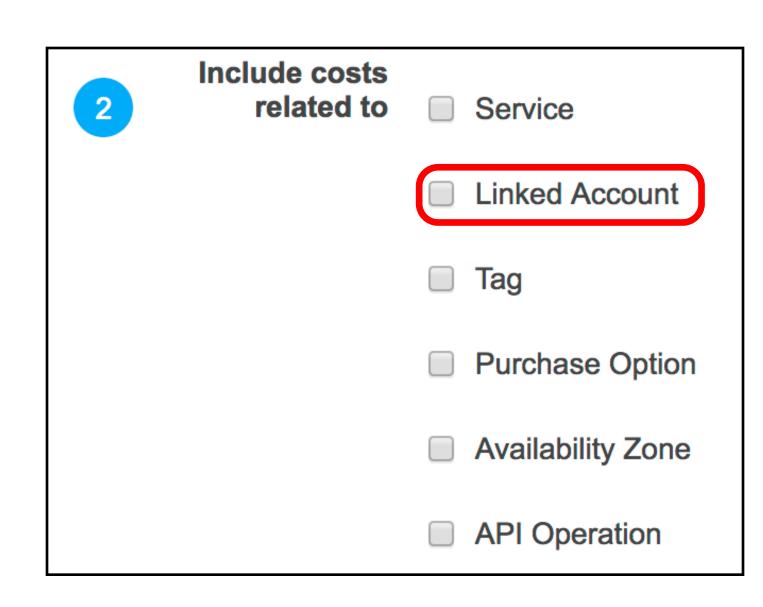
TCBG Urbana 2017 workshop values used as example

Budget details:

- Name: Workshop (example)
- Start date: 04/17/2017
- End date: 04/21/2017
- Budgeted Amount: \$50

Include costs related to:

- Linked Account
 - Select your account

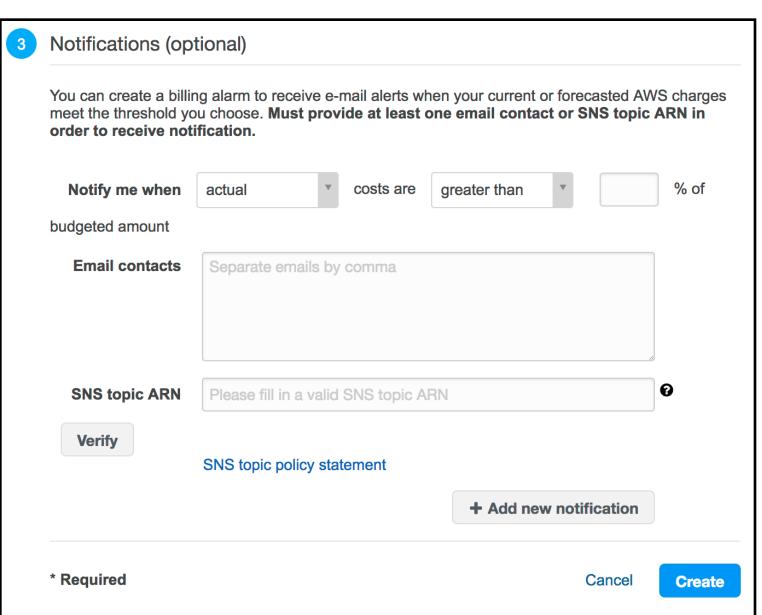


TCBG Urbana 2017 workshop values used as example

Notifications:

- Notify me when: actual
- costs are: greater than
- 50% or 75%*
- Email contacts: add your email address

*allow some time to receive the email to make sure to not pass over the budget



TCBG Urbana 2017 workshop values used as example

Notifications:

- Notify me when: actual
- costs are: greater than
- 50% or 75%*
- Email contacts: add your email address

*allow some time to receive the email to make sure to not pass over the budget

Press Create

