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

Important info:

• Description of the AMI
• AWS region
  ○ Pricing
  ○ Instance types
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Important info:

- Description of the AMI
- AWS region
  - Pricing
  - Instance types
- Usage instructions
- Support details
Start VMD & NAMD AMI
(once you have created your AWS account)

Press Continue
Start VMD & NAMD AMI
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Important info:

- Pricing
- Instance type selection
- All default options of the AMI
Start VMD & NAMD AMI
(once you have created your AWS account)

Important info:

- Pricing
- Instance type selection
- All default options of the AMI
- Select security key pair (bottom of the page)
  - If we don’t have one?!
Generate a Key Pair file
(once you have created your AWS account)

Go to aws.amazon.com

- 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 > “EC2”
- “Network & Security” > Key Pairs
Generate a Key Pair file
(once you have created your AWS account)

Go to [aws.amazon.com](http://aws.amazon.com)

- [AWS Management Console](http://aws.amazon.com)
- “All services” > Compute > “EC2”
- “Network & Security” > Key Pairs
- “Create Key Pair”
  - Save the *.pem file (important to transfer files)
Start the VMD & NAMD AMI
(once you have created your AWS account)

Important info:

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

Important info:

- 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 your Key pair
- “Launch with 1-click”
Start the VMD & NAMD AMI
(once you have created your AWS account)

Important info:

• 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”
Connect to the Instance

Go to your AWS console

From AWS Website

From AWS Marketplace

Hello, jribeiro

- Your Marketplace
- Your Marketplace Software
- Your AWS Console

Sign out

My Account

Sign In to the Console

MY ACCOUNT

AWS Management Console
Account Settings
Billing & Cost Management
Security Credentials
AWS Personal Health Dashboard
Connect to the Instance

Go to your AWS console

- All services
  - Compute
    - EC2
    - EC2 Container Service
    - Lightsail
    - Elastic Beanstalk
    - Lambda
    - Batch

- Services
  - EC2 Dashboard
  - Events
  - Tags
  - Reports
  - Limits
  - INSTANCES
    - Instances
    - Spot Requests
    - Reserved Instances
    - Scheduled Instances
    - Dedicated Hosts
Connect to the Instance

- **DCV Password**
- **IP for DCV**
- **Public DNS for SFTP**
Connect to the Instance

Once the instance is running:

• Open NICE DCV Endstation
  ○ http://www.nice-software.com
• VNC Server: <IP for DCV>:5901
• Connect
• Password: <Instance ID>
Enjoy It
Transfer Files to and from a Running Instance

Using a SFTP program:

- **FileZilla** (Mac/Windows/Linux)
  - [https://filezilla-project.org/](https://filezilla-project.org/)
Transfer Files to and from a Running Instance

Using a SFTP program:

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

- **FileZilla** (Mac/Windows/Linux)
  - [https://filezilla-project.org/](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>
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
Define my Billing Notifications

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
Define my Billing Notifications

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)
Define my Billing Notifications

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AWS website:
- My Billing Dashboard
- Budgets (left side bar)
- Create budget
Define my Billing Notifications

From Amazon’s website:

Create your AWS Budget

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

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
Define my Billing Notifications

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
Define my Billing Notifications

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
Define my Billing Notifications

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