

HU Extension      **Assignment 01**      E-90 Cloud Computing

Course website: <https://canvas.harvard.edu/courses/4077>

Handed out: 09/04/2015

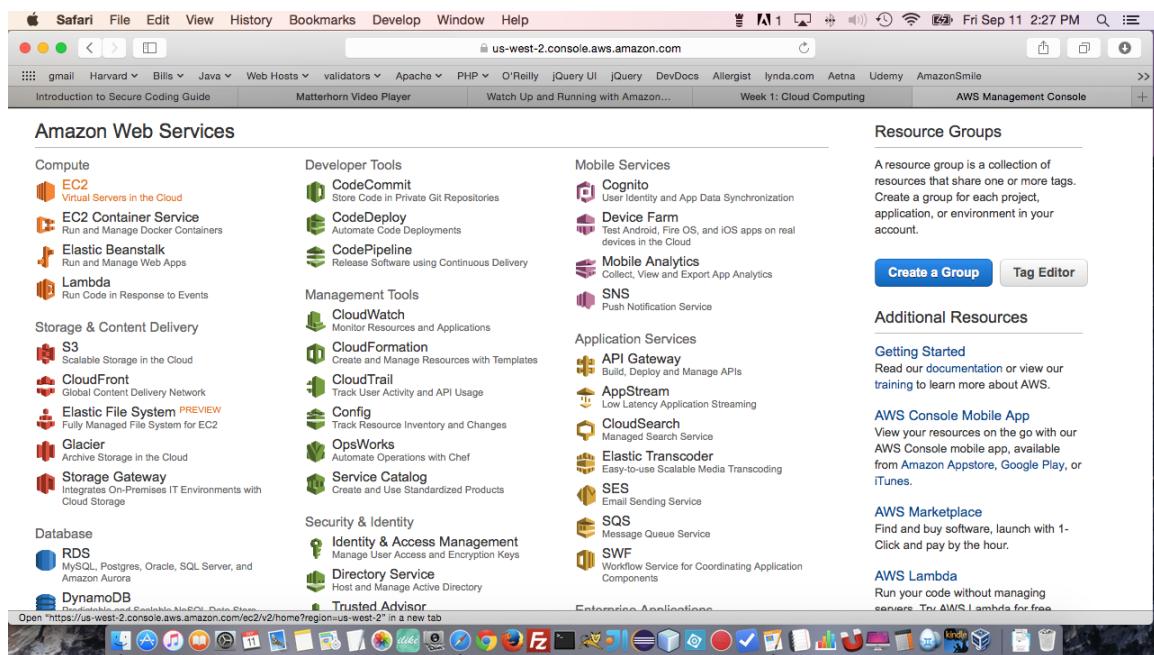
Due by 11:59 PM on Friday, 09/11/2015

***Use this word document for capturing all screen images and describing all your steps after each problem. Include your html files and txt files in your submission for problem 2. Points are deducted for missing steps. For each day late beyond the deadline, 10 points are deducted/day late.***

Note: I had problems with my private key and with troubleshooting I created more than one instance so that is why there may be more than one IP address/DNS name of my instance in the screen shots I did find success with the since second instance.

**Problem 1:**

- 1) After creating an AWS account (this problem starts after this) Choose EC2 from the AWS Management Console



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## 2) Launch/Create an Instance

The screenshot shows the AWS EC2 Management Console on a Mac OS X desktop. The left sidebar has 'EC2 Dashboard' selected, showing '0 Running Instances'. The main area displays 'Create Instance' instructions and a 'Launch Instance' button. On the right, there's an 'Account Attributes' section with 'Supported Platforms' (VPC), 'Default VPC' (vpc-9f7134fa), and an 'Additional Information' section with links like 'Getting Started Guide' and 'AWS Marketplace'.

## 3) Find the specific Community AMI ami-008db468 and choose Select

The screenshot shows the 'Choose AMI' step in the instance creation wizard. The search bar contains 'ami-008db468'. A result for 'bitnami-ocportal-9.0.19-0-linux-redhat-6.6-x86\_64-ebs - ami-008db468' is shown, with a 'Select' button. The sidebar on the left shows 'Community AMIs' under 'Operating system' with options for Amazon Linux, Cent OS, Debian, and Fedora.

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## 4) Verify the default availability zone

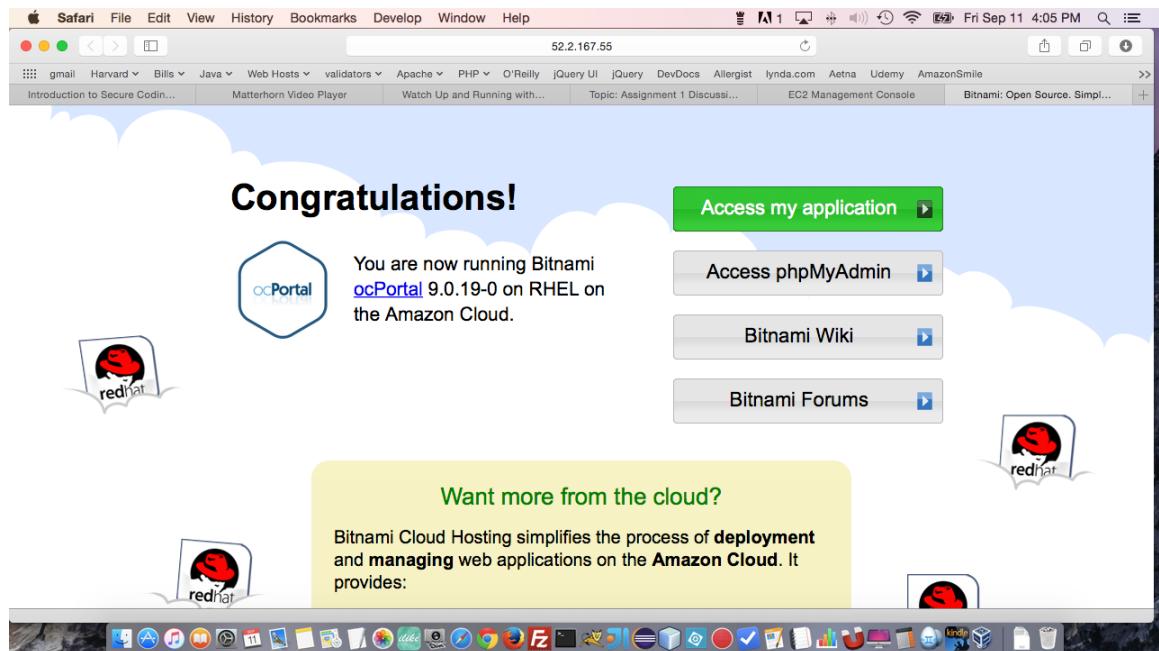
The screenshot shows the AWS Management Console with the EC2 Management Console selected. The main pane displays the EC2 Dashboard under the 'Service Health' section. It notes that instances will launch in the US East (N. Virginia) region. The 'Service Status' section shows 'US East (N. Virginia)' as operating normally. The 'Availability Zone Status' section lists four availability zones: us-east-1a, us-east-1b, us-east-1c, and us-east-1e, all of which are operating normally. To the right, there's a sidebar for the AWS Marketplace with a listing for 'Wowza Streaming Engine 4: Pro Edition (HVM)'. The bottom of the screen shows the Mac OS X dock with various application icons.

## 5) Configure Security Group Rules

The screenshot shows the AWS Management Console with the EC2 Management Console selected. The main pane displays the 'Create Security Group' interface for a security group named 'sg-e490ae83'. The 'Inbound' tab is selected, showing three rules: HTTPS (TCP port 443 from 0.0.0.0/0), SSH (TCP port 22 from sg-e490ae83 (default)), and HTTP (TCP port 80 from 0.0.0.0/0). The left sidebar shows the EC2 Dashboard and a 'Security Groups' section. The bottom of the screen shows the Mac OS X dock with various application icons.

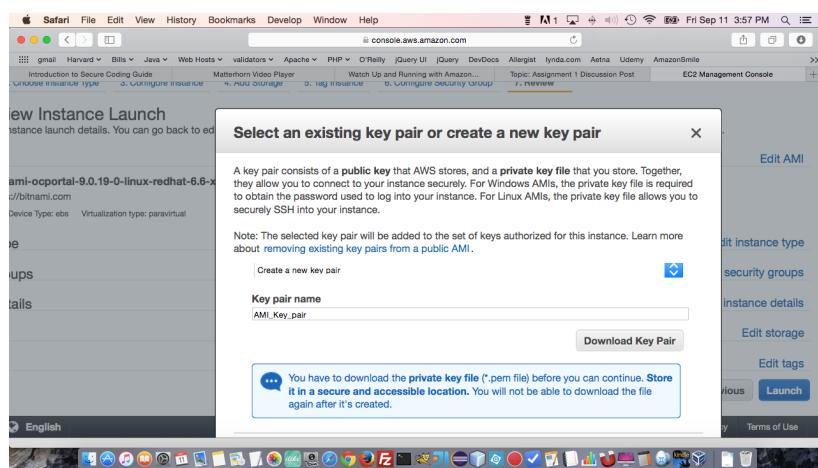
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## 6) Verify default web page loads

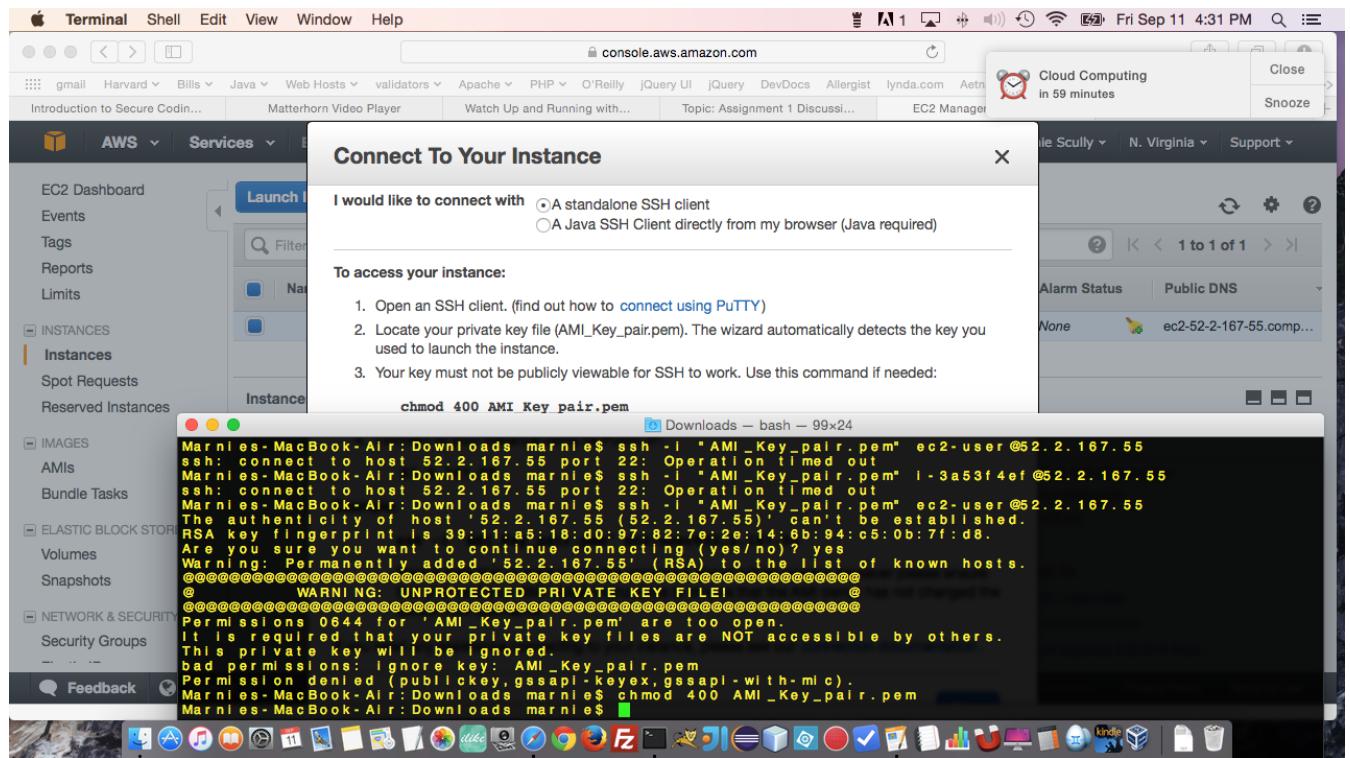


## Problem 2:

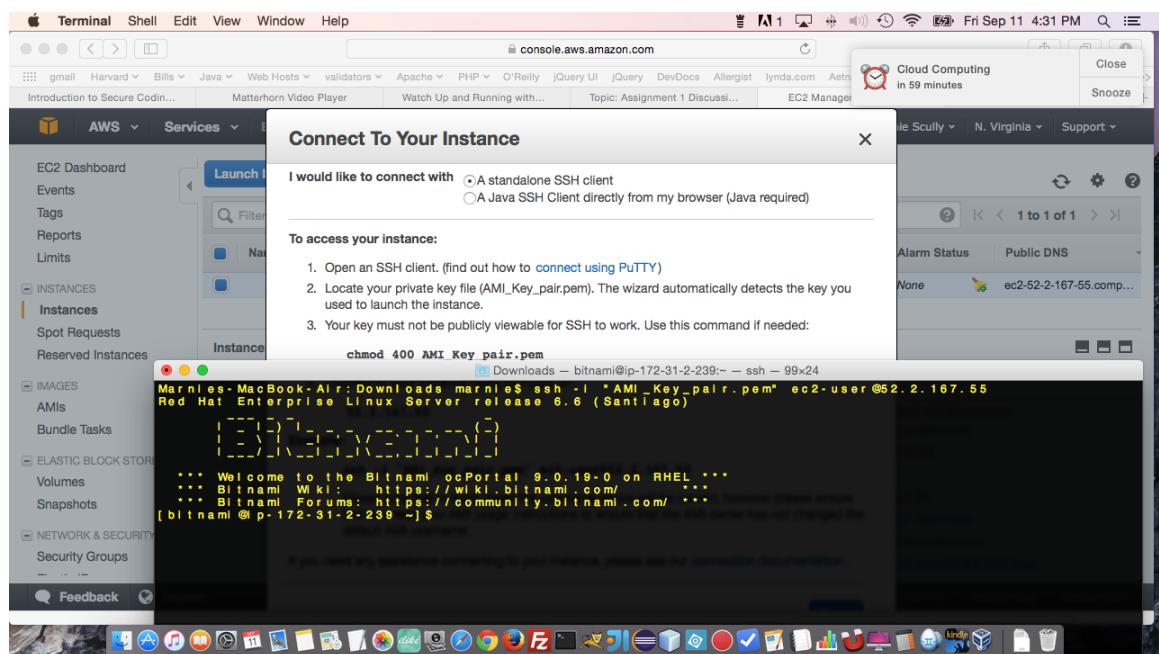
### 1) Create a Public/private key pair



## 2) Change permissions on local pem file to hidden

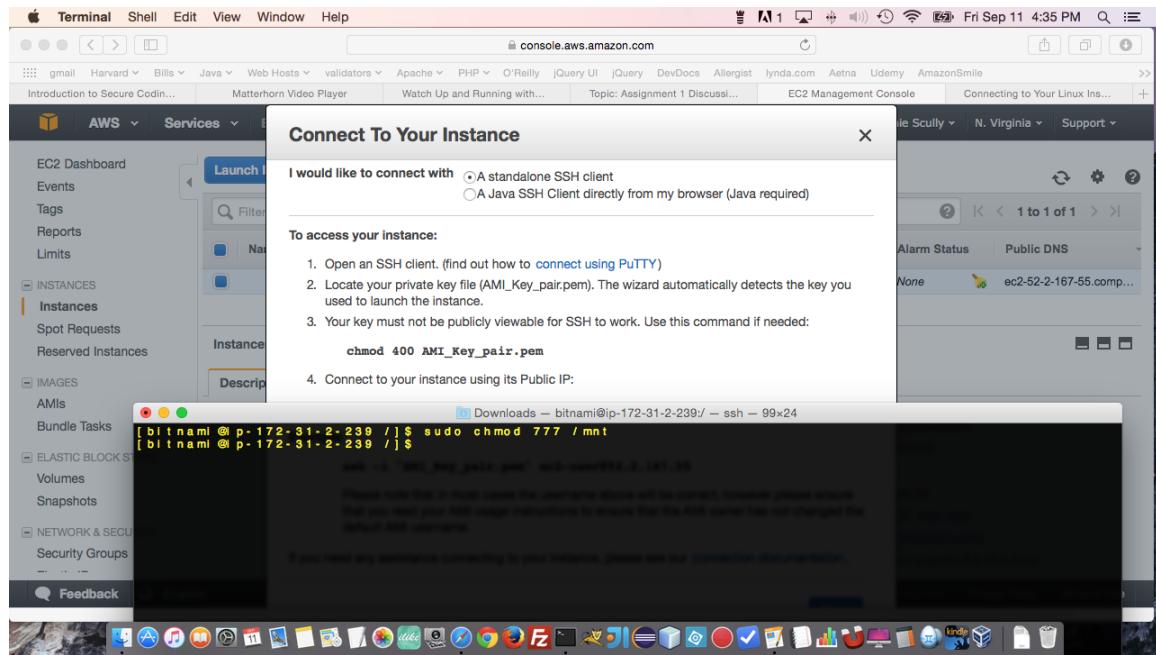


## 3) Connect with SSH to instance

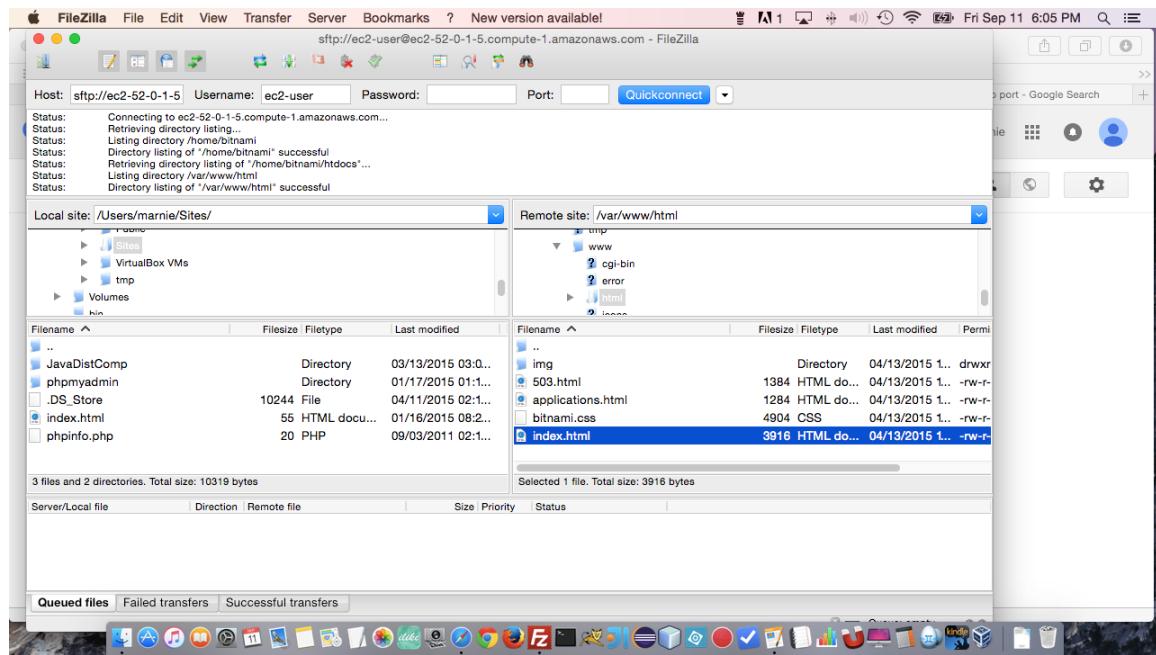


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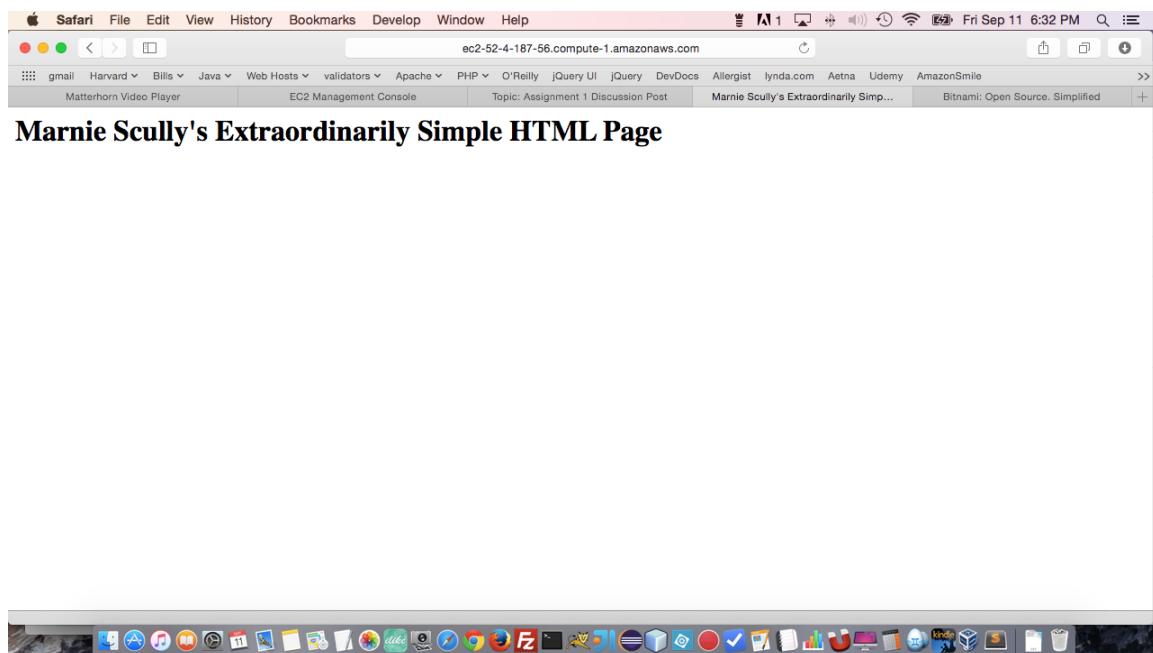
## 4) and change /mnt drive to have 777 permissions



## 5) Using FTP software filezilla connect to AWS instance and copy new index.html file



## 6) View new file within web browser



### Problem 3:

I am unable to get accurate readings on my volumes and instances at this point since it takes at least 24 hours to configure. I have included screen shots of the places within the AWS console to view reports if they did exist.

Two screenshots of the AWS Management Console. The top screenshot shows the "EC2 Management Console &gt; Reports &gt; EC2 Instance Usage" page. It displays a table with columns for "Instance ID", "Instance Type", "Status", "Last Activity", and "Actions". A message box indicates "No Data" because there is no instance usage. The bottom screenshot shows the "AWS Usage Report" page, which allows users to download usage data for AWS services. Both screenshots are taken from a Mac OS X desktop environment, with the Dock visible at the bottom.

## Problem 4:

STOP and TERMINATE YOUR INSTANCE once you do not need it any more. Capture your images and describe.

Total points: 10

### 1) Choose “Instant state” Terminate from the Actions menu

The screenshot shows the AWS EC2 Management Console in a web browser. The left sidebar is collapsed. The main area displays a table of instances. One instance, with Instance ID i-9bcb6d4e, is selected. A context menu is open over this instance, with 'Actions' expanded. The 'Terminate' option is highlighted. The table shows the instance is currently 'terminated'. Other columns include Public DNS, Public IP, Elastic IP, Availability zone, Security groups, Scheduled events, and AMI ID.

### 2) The instance is now terminated

The screenshot shows the same AWS EC2 Management Console interface after the instance has been terminated. The instance table now shows the 'terminated' status for the selected instance i-9bcb6d4e. The rest of the interface remains the same, with the left sidebar collapsed and the main area displaying the instance details.

Upload your homework file as a word document or PDF file named:  
E90\_YourLastNameYourFirstNameHW01.doc/.docx/.pdf and all your files (html, jpg) for  
problem 2 to the course web site in your folder for assignment 1.

If you have issues with the upload, please notify us by email in the course email box.  
If you are raising issues that might be of interest to all of your colleagues in the class or  
need clarification of homework, please use the Discussion Board on the course site. The  
Discussion Board is your best friend.

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