Activity 3 Briefing

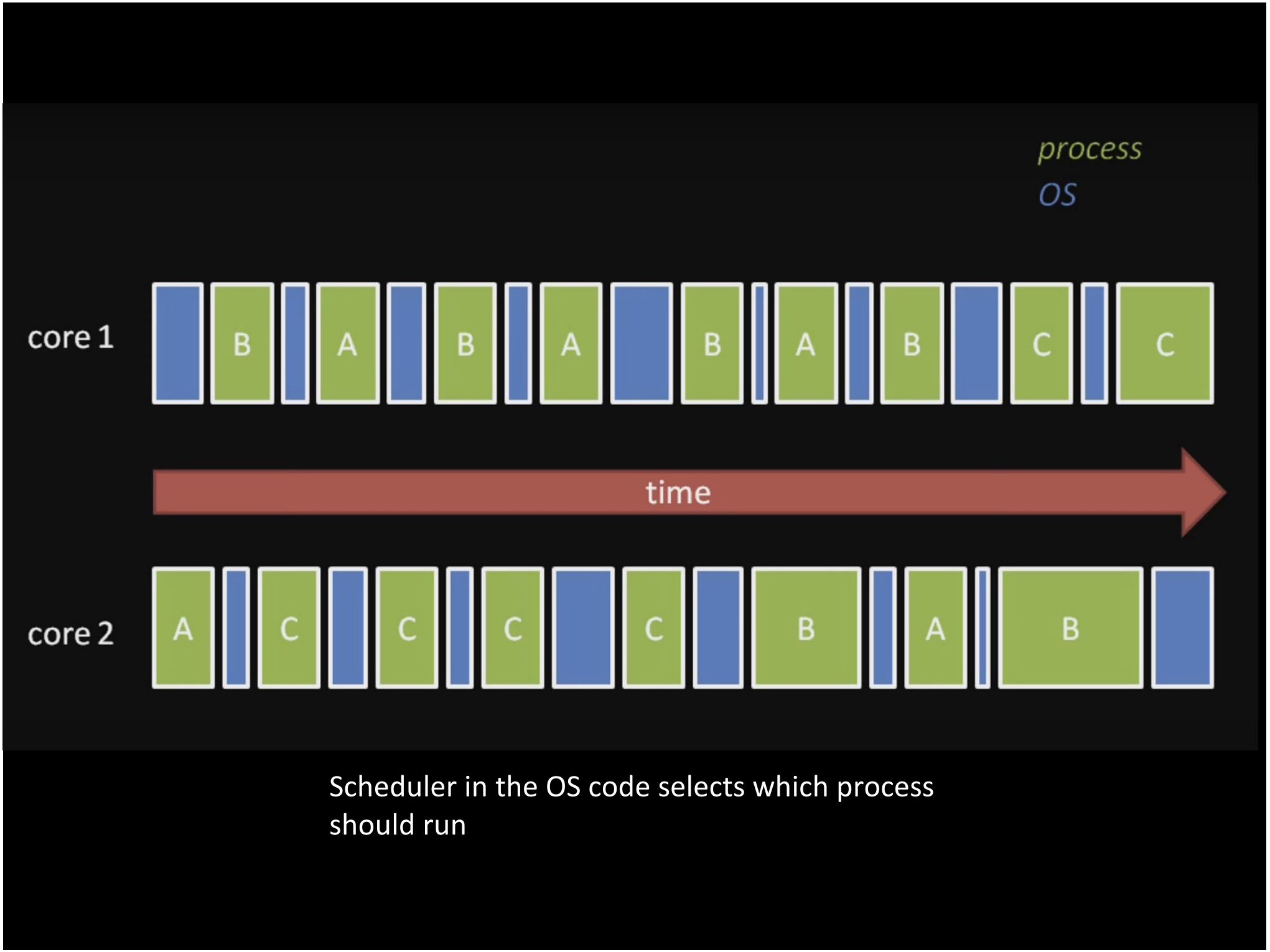
Operating System / Using LINUX

operating system

(manages the hardware and running programs)

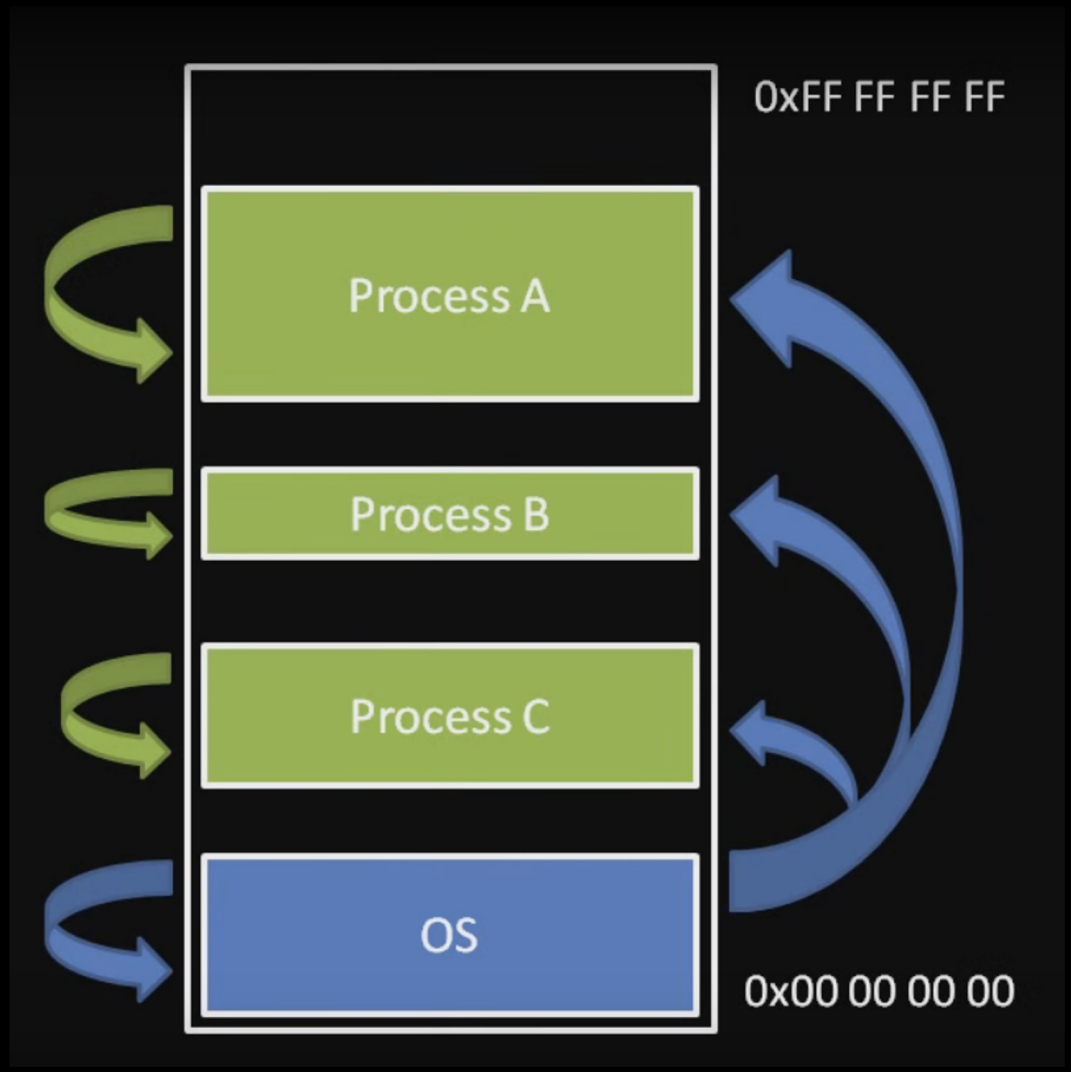
- load and manage processes
- provide interfaces to hardware *via* system calls
- provide a filesystem
- provide a basic user interface

Managing CPUs



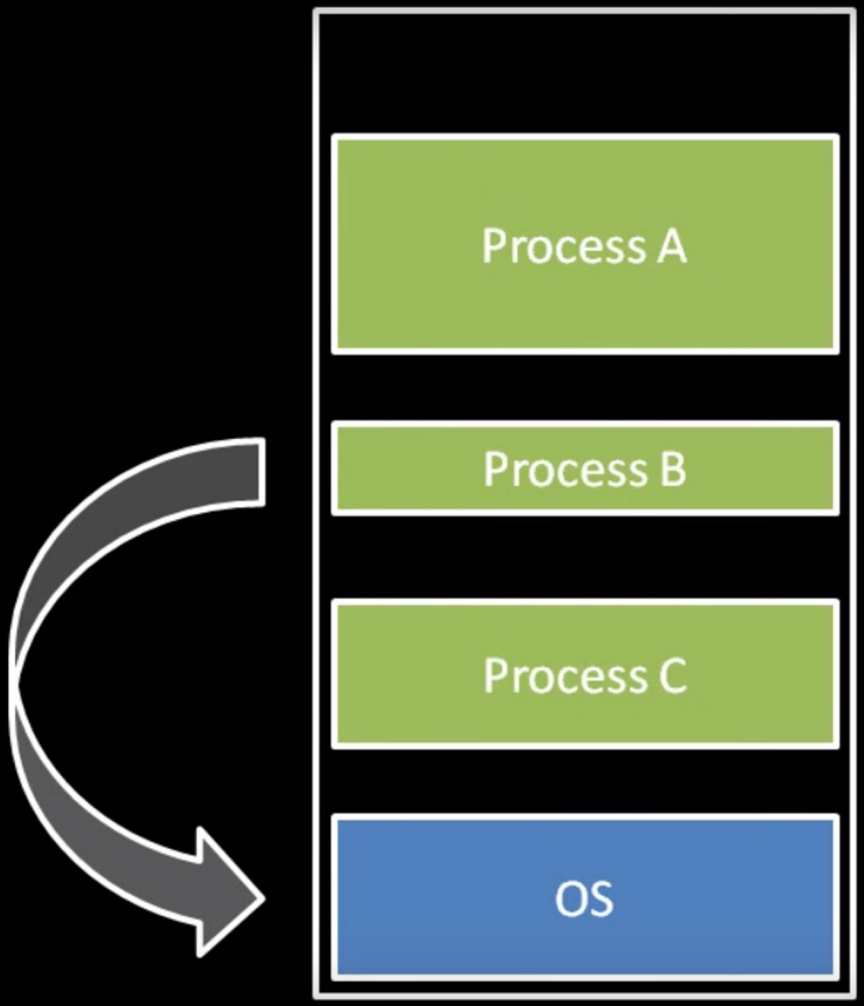
Scheduler in the OS code selects which process should run

Managing Memory

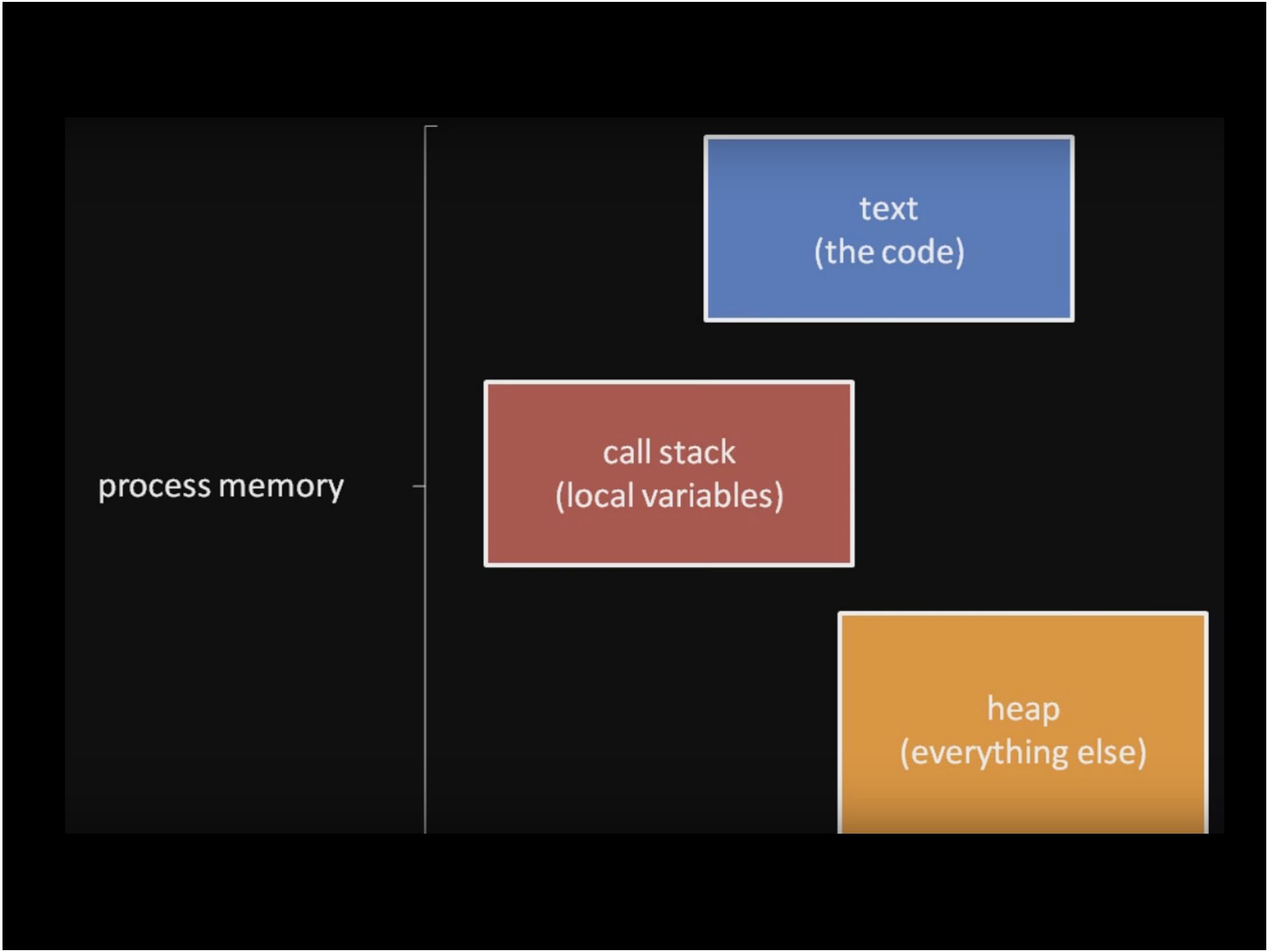


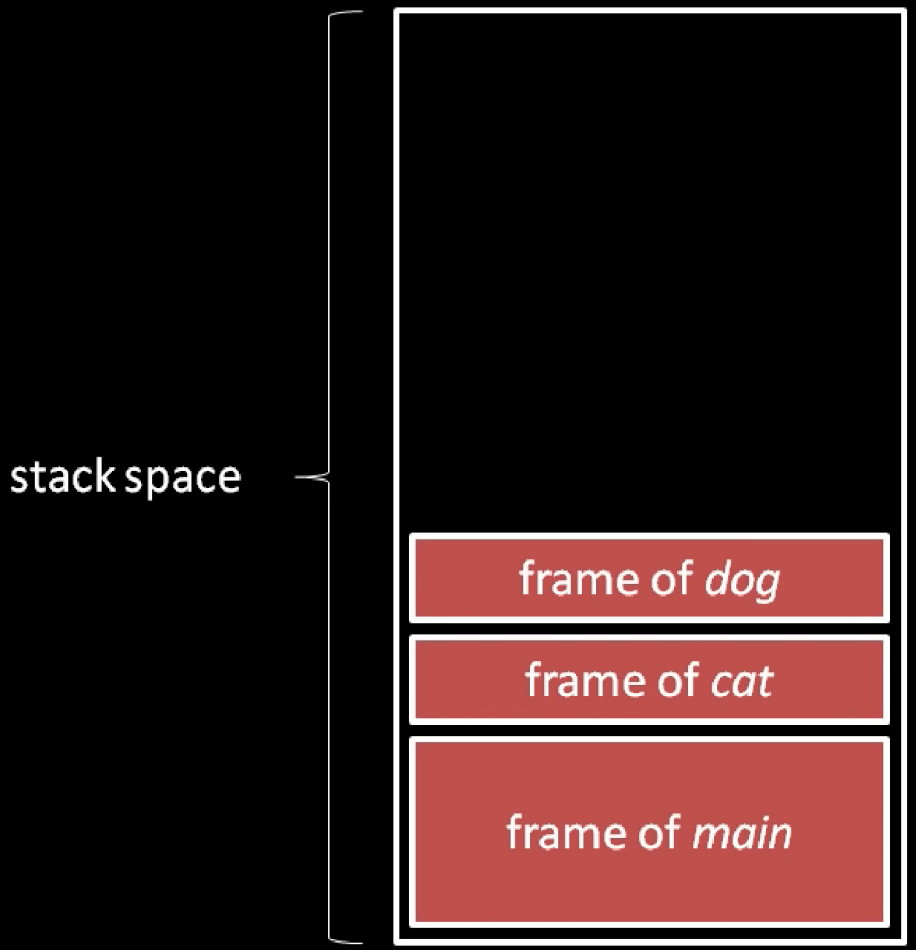
Separation of memory locations
Restriction of Access

jump to system call code *via* special instruction

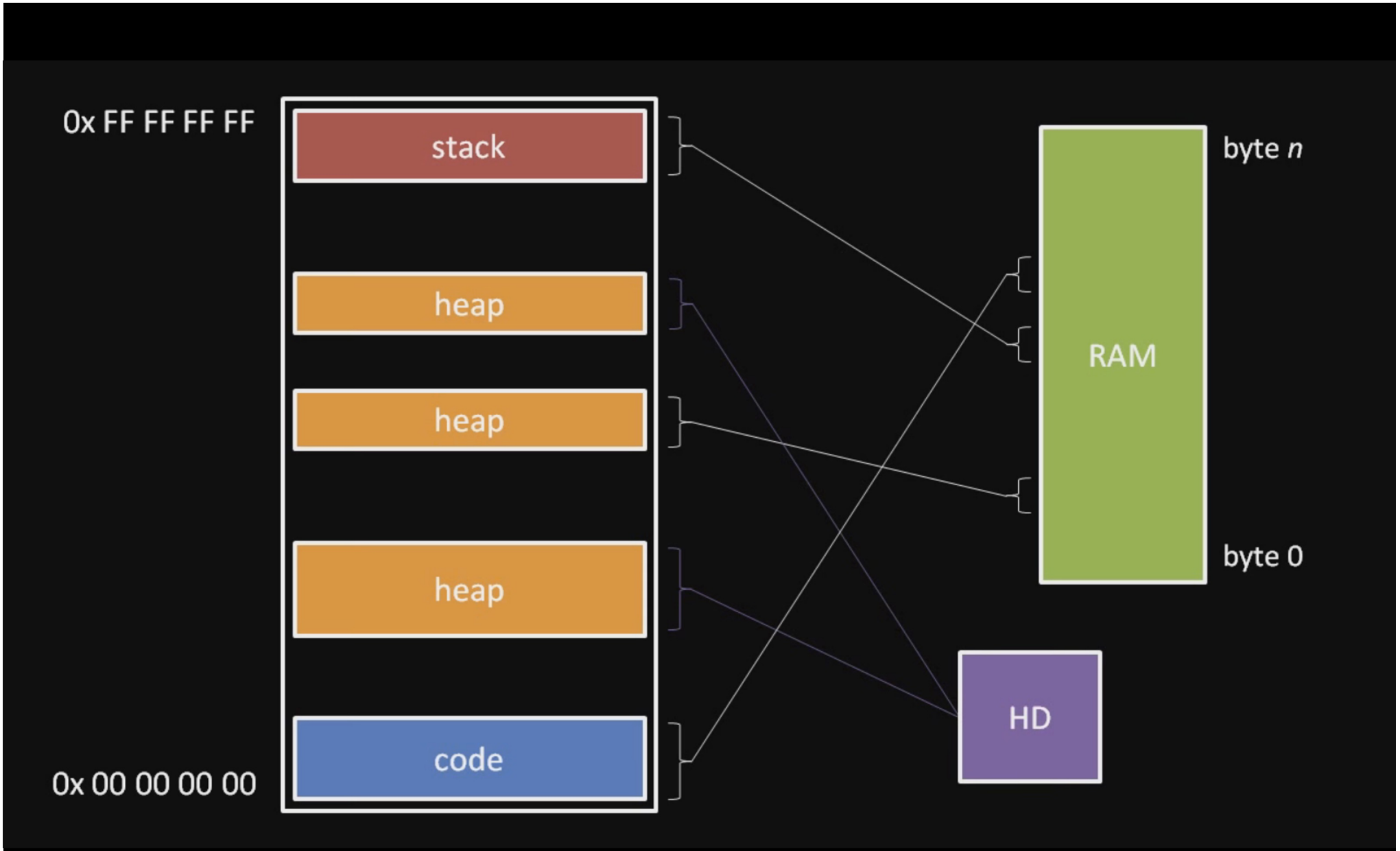


How processes access OS's memory


process memory
text
(the code)
call stack
(local variables)
heap
(everything else)

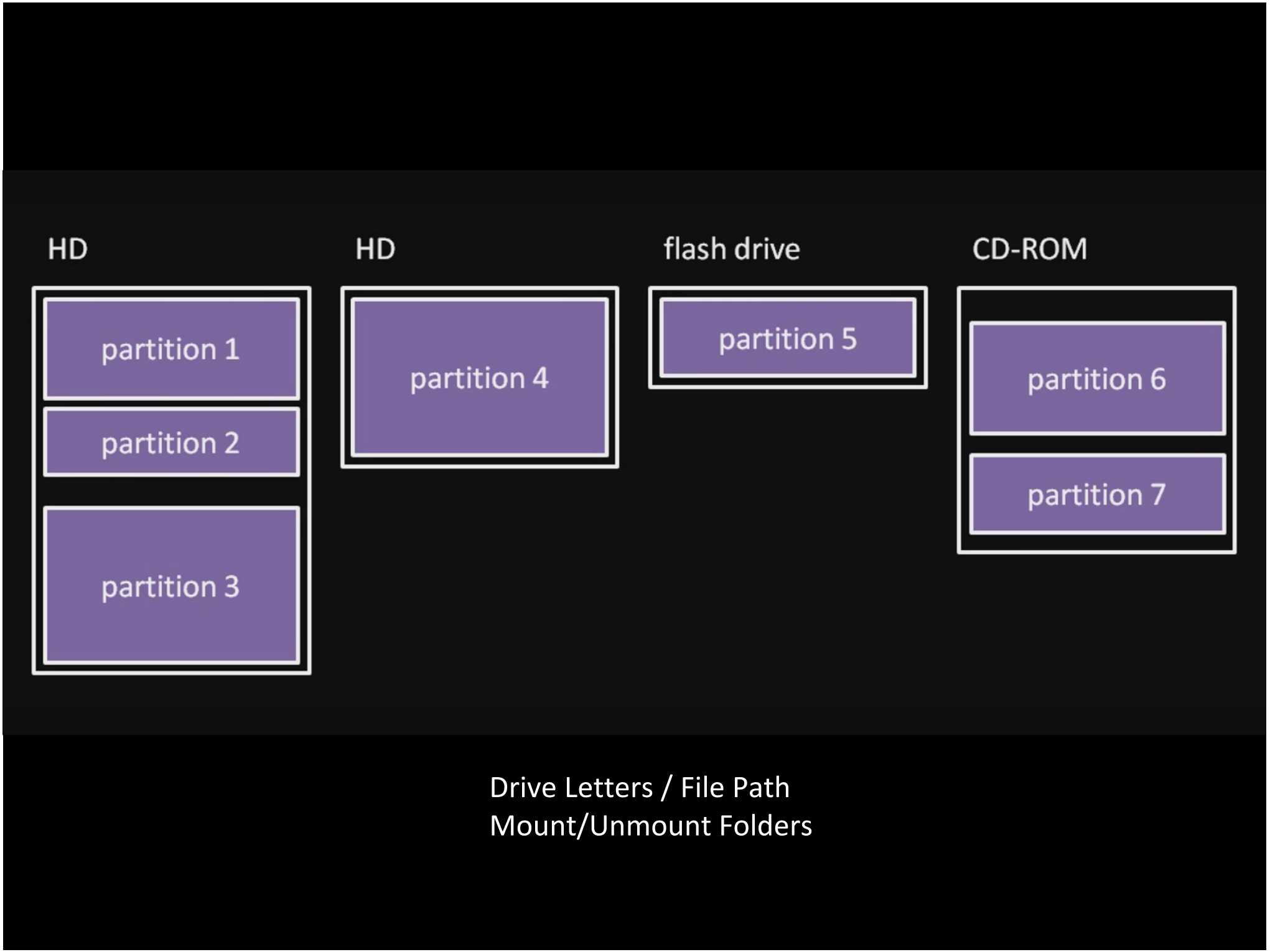



```
Function main(){
    …
    …
    cat();
    …
}

Function cat(){
    dog();
}

Function dog(){
    …
    …
}
```



Handling Physical Memory

Managing Storage



Drive Letters / File Path
Mount/Unmount Folders


ubuntu

Observe OS's functionality through Hands-on Ubuntu try out

- User Interfaces
  - Command Line Interface
  - GUI
- User Accounts
- Storage
  - Storage Abstraction (File System)
  - Permission
  - File Handling
- Applications
  - Discovering / Installing / Using App

- UNIX Shell
  - Writing Shell Script

Student Login

(For students enrolled in a class)

学生の方はこちらからログインしてください。

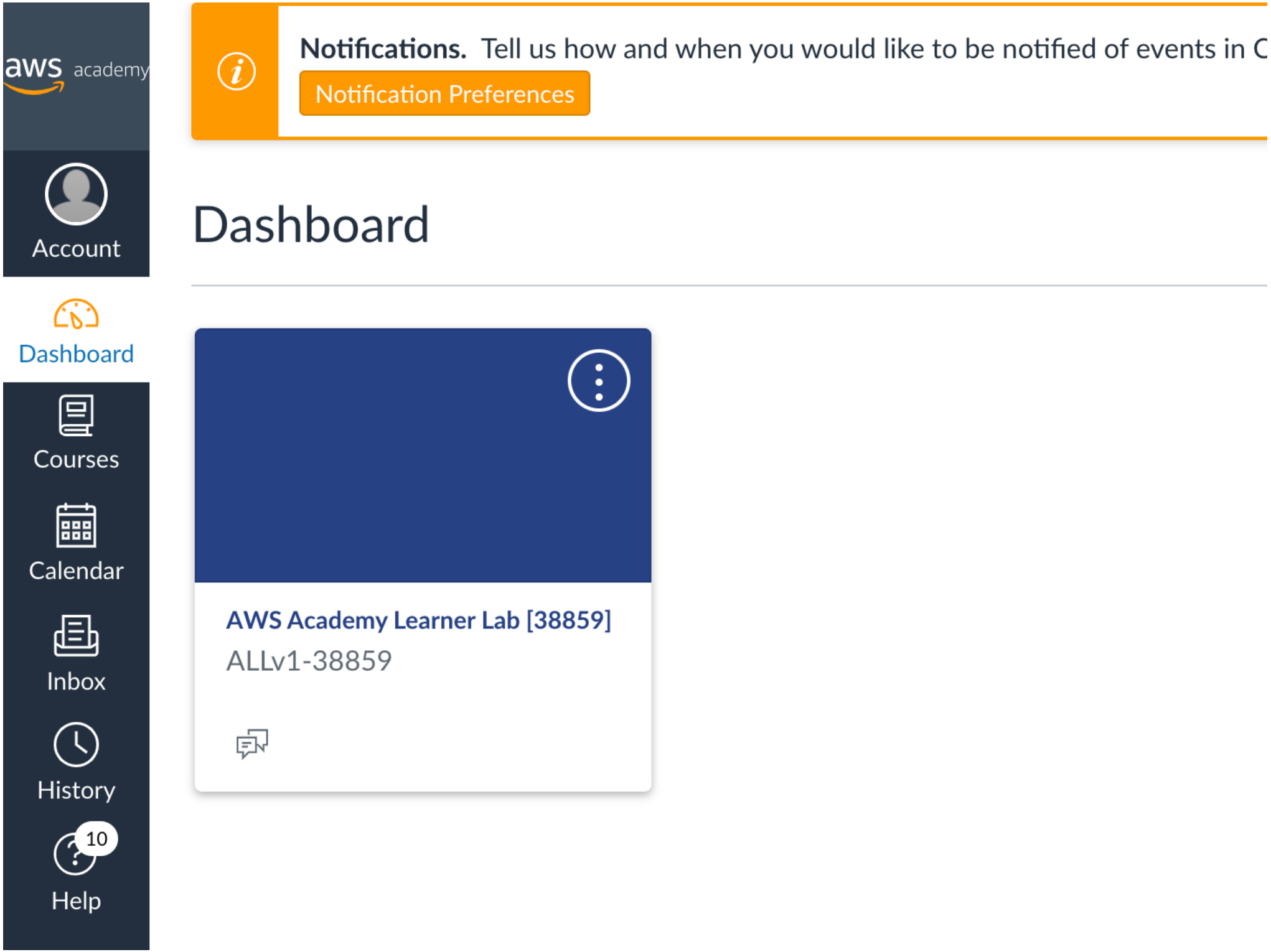
已注册课程的学生请在这里登录

Educator Login

(For educators who have access to the AWS Academy Portal)

講師の方（AWS Academyメンバーポータルのアカウントをお持ちの方）はこちらからログインしてください。

教师请在这里登录（您需使用AWS Academy Portal账户登录）


aws academy
Account
Dashboard
Courses
Calendar
Inbox
History
10
Help
Notifications. Tell us how and when you would like to be notified of events in C
Notification Preferences
Dashboard
AWS Academy Learner Lab [38859]
ALLv1-38859

vocareum

My Classes | Manage | Help | Atiwong Suchato

AWS | Used $0 of $100 | 00:00 | Start Lab | End Lab | AWS Details | Readme | Reset

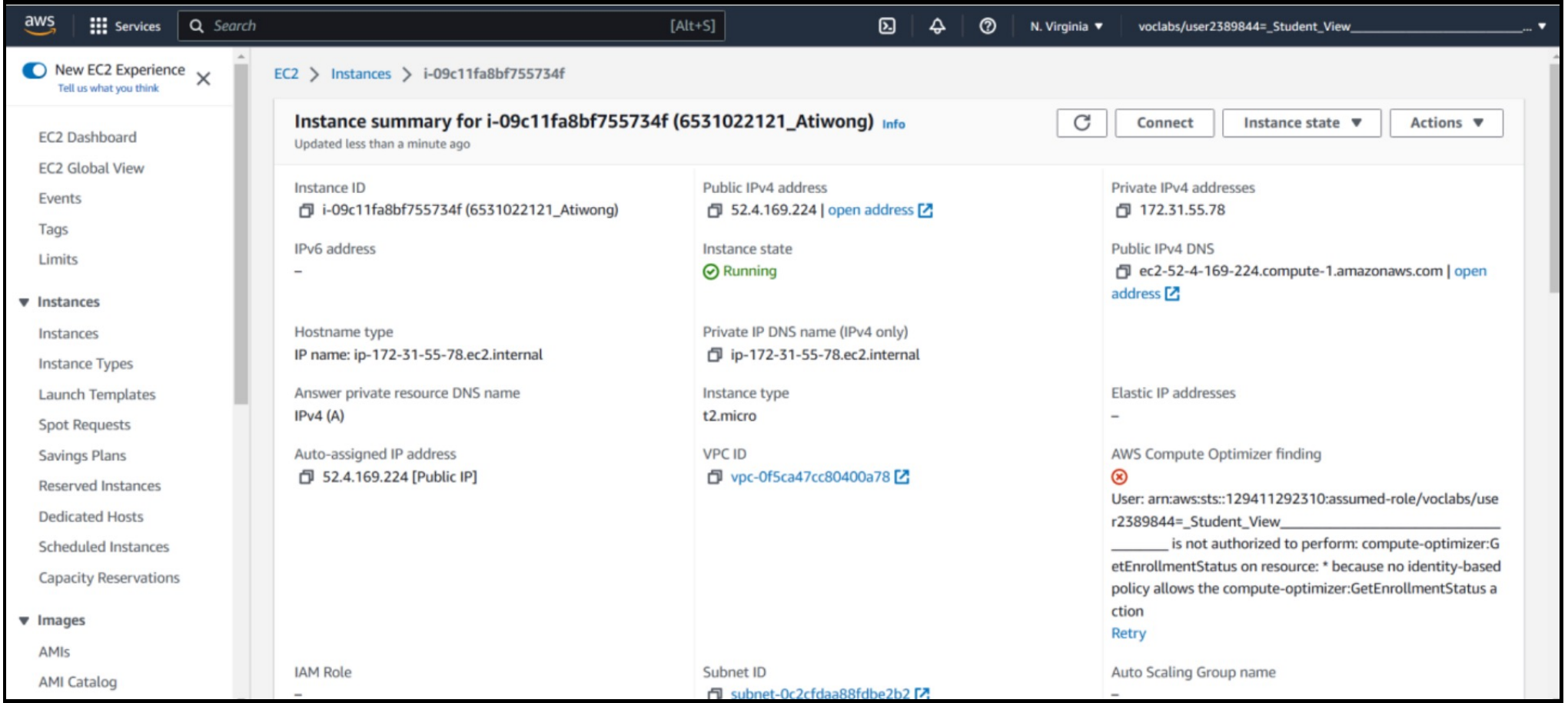
EN-US

Learner Lab

Environment Overview

This Learner Lab provides a sandbox environment for ad-hoc exploration of AWS services.

This environment is long-lived. When the session timer runs to 0:00, the session will end, but any


aws
Services
Search
[Alt+S]
N. Virginia
voclabs/user2389844=_Student_View
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
EC2 > Instances > i-09c11fa8bf755734f
Instance summary for i-09c11fa8bf755734f (6531022121_Atiwong) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-09c11fa8bf755734f (6531022121_Atiwong)
IPv6 address
–
Hostname type
IP name: ip-172-31-55-78.ec2.internal
Answer private resource DNS name
IPv4 (A)
Auto-assigned IP address
52.4.169.224 [Public IP]
Public IPv4 address
52.4.169.224 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-55-78.ec2.internal
Instance type
t2.micro
VPC ID
vpc-0f5ca47cc80400a78
Private IPv4 addresses
172.31.55.78
Public IPv4 DNS
ec2-52-4-169-224.compute-1.amazonaws.com | open address
Elastic IP addresses
–
AWS Compute Optimizer finding
User: arn:aws:sts::129411292310:assumed-role/voclabs/user2389844=_Student_View is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action
Retry
IAM Role
–
Subnet ID
subnet-0c2cfdaa88fdbe2b2
Auto Scaling Group name
–