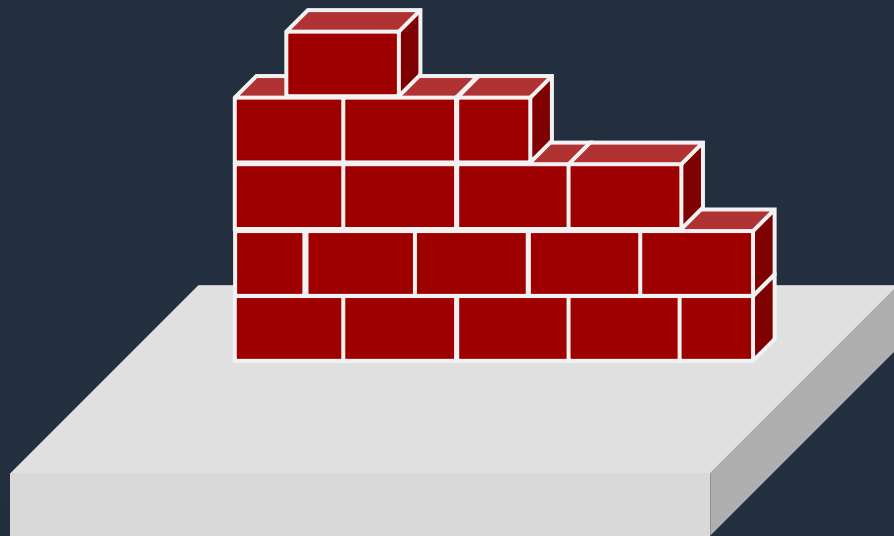aws

AWS for education

Accelerating the digital transformation of education
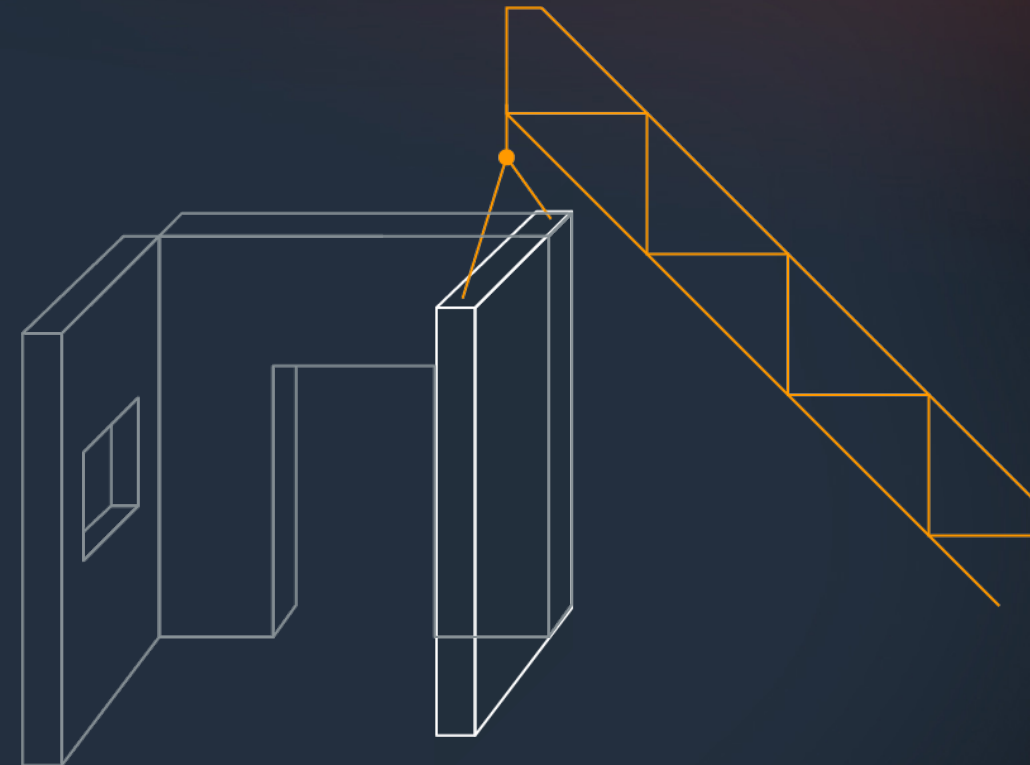
Filipe Quirino – Territory Manager

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Agenda

- Introductions
- Why now for digital transformation
- How and why institutions are partnering with AWS
- Your transformation priorities
- Wrap-up and next steps

aws

Traditional Model:

Building on a foundation

New Model:

Assembling pre-fabricated components

It's no longer about "Buy vs. build".
It's "Build which parts?"
and 'Should I be running it?'

ANALYTICS

ANALYTICS
DATA EXCHANGE
DATA LAKE
DATA PIPELINES
DATA WAREHOUSE
ELASTICSEARCH

STREAMING
ETL
HADOOP/SPARK
INTERACTIVE
SQL QUERIES
VISUALIZATIONS

AR + VR

AR/VR EXPERIENCES

AWS COST MANAGEMENT

ANALYZE AWS COSTS
COST & USAGE BUDGETS
COST & USAGE REPORTS
RESERVED INSTANCES REPORTING

APPLICATION INTEGRATION

EMAIL
MESSAGE BROKER
QUEUEING &
NOTIFICATIONS

SEARCH
TRANSCODING
WORKFLOW

BUSINESS APPLICATIONS

EMAIL &
CALENDARING
ONLINE MEETINGS
SHARING &
COLLABORATION

UNIFIED
COMMUNICATIONS
VOICE-ENABLED
WORKPLACE

BLOCKCHAIN

BLOCKCHAIN TEMPLATES
LEDGER DATABASE
MANAGED BLOCKCHAIN

CUSTOMER ENGAGEMENT

CONTACT CENTER
EMAIL TARGETING
USER ENGAGEMENT ACROSS CHANNELS

COMPUTE

COMPUTE
AUTO SCALING
BATCH JOBS
EVENT-DRIVEN
SERVERLESS
COMPUTING
INSTANCE TYPES
MANAGED VIRTUAL
PRIVATE SERVERS
MANAGED
REPOSITORY FOR
SERVERLESS APPS
RUN & MANAGE
WEB APPS
SERVERLESS
COMPUTE
VIRTUAL SERVERS

CONTAINERS
CONTAINER SERVICE
MANAGED
KUBERNETES
STORE & RETRIEVE
DOCKER IMAGES

DATABASE

**REALTIONAL
DATABASES**
HIGH-PERFORMANCE
RELATIONAL
DATABASE BUILT
FOR THE CLOUD
MANAGED MARIADB
MANAGED MYSQL
MANAGED ORACLE
MANAGED
POSTGRESQL
MANAGED
SQL SERVER

**PURPOSE-BUILT
DATABASES**
DOCUMENT
DATABASE
GRAPH DATABASE
IN-MEMORY CACHING
KEY-VALUE
STORE DATABASE
LEDGER DATABASE
TIME SERIES
DATABASE

DEVELOPER TOOLS

ANALYZE & DEBUG
APPLICATION LIFECYCLE MANAGEMENT
AUTHORING
BUILD & TEST
CONTAINERS
DEVOPS RESOURCE MANAGEMENT
ONE-CLICK APP DEVELOPMENT
PATCHING
PIPELINE ORCHESTRATION
RESOURCE TEMPLATES
TRIGGERS

END USER COMPUTING

APP STREAMING
DESKTOP
COMPUTING

MOBILE ACCESS
STORAGE &
COLLABORATION

HYBRID ARCHITECTURE

AWS SERVICES
ON PREMISES
DATA INTEGRATION
INTEGRATED
DEVICES &
EDGE SYSTEMS
INTEGRATED
IDENTITY & ACCESS

INTEGRATED
NETWORKING
INTEGRATED
RESOURCE &
DEPLOYMENT
MANAGEMENT
VMWARE CLOUD
ON AWS

GAME TECH

CROSS-PLATFORM 3D GAME ENGINE
GAME SERVER HOSTING

INFRASTRUCTURE

AVAILABILITY ZONES
CUSTOM HARDWARE
DATA CENTER INFRASTRUCTURE
GLOBAL NETWORK BACKBONE
POINTS OF PRESENCE
POWER INFRASTRUCTURE
REGIONS

INTERNET OF THINGS (IOT)

RULES ENGINE
DEVICE ANALYTICS
DEVICE GATEWAY
DEVICE SDK
DEVICE SHADOWS
EVENT DETECTION & RESPONSE
LOCAL COMPUTE
LOCAL DATA COLLECTION
MANAGEMENT & SECURITY
MICROCONTROLLER OPERATING SYSTEM
REGISTRY
VISUAL APPLICATIONS DEVELOPMENT

MACHINE LEARNING

ML FRAMEWORKS
DEEP LEARNING
AMIs & CONTAINERS
HARDWARE
ACCELERATION
ML AT THE EDGE
TENSORFLOW,
PYTORCH, MXNET

AI SERVICES
CHATBOTS
ENTITY EXTRACTION
FACE ANALYTICS
FACE SEARCH
FORECASTING
IMAGE LABELING
NATURAL LANGUAGE
PROCESSING
PERSONALIZATION &
RECOMMENDATION
SENTIMENT ANALYSIS
SPEECH
TRANSCRIPTION
TEXT & DATA EXTRACTION
TEXT TO SPEECH
TRANSLATION
VIDEO & IMAGE ANALYSIS
CONTENT MODERATION

SAGEMAKER
AUTOMATIC MODEL
TUNING
DATA LABELING
HOSTED NOTEBOOKS
ML MARKETPLACE
MODEL HOSTING
MODEL
OPTIMIZATION
MODEL TRAINING
PRE-BUILT
ALGORITHMS
TOPIC MODELING
DEEP LEARNING
MODELS
REINFORCEMENT
LEARNING
SPOT INSTANCES
BATCH PREDICTIONS
REAL-TIME
PREDICTIONS

MANAGEMENT & GOVERNANCE

ACTIVITY & API
USAGE TRACKING
CHATBOT
CONFIGURATION
TRACKING
GOVERNANCE
INVENTORY
TRACKING
LICENSE MANAGER
MANAGE POLICIES
MANAGE RESOURCES

MONITORING
PROVISIONING
RESOURCE
TEMPLATES
SECURITY
RECOMMENDATIONS
SERVER
MANAGEMENT
SERVICE CATALOG
SYSTEMS MANAGER

MARKETPLACE

ANALYTICS
DATA PRODUCTS
DATABASES
DEVOPS
IOT

MACHINE LEARNING
NETWORKING
OPERATING SYSTEMS
SECURITY
STORAGE

MEDIA SERVICES

LIVE VIDEO
TRANSPORT
MEDIA STORAGE
TRANSCODING
VIDEO ORIGINATION
& PACKAGING

VIDEO
PERSONALIZATION &
MONETIZATION
VIDEO PROCESSING &
DELIVERY
VIDEO STREAMING
ANALYSIS

MIGRATION & TRANSFER

APPLICATION MIGRATION
DATABASE MIGRATION
EXABYTE-SCALE MIGRATION
ONLINE DATA TRANSFER
SCHEMA CONVERSION
SERVER MIGRATION
TRANSFER FOR SFTP

MOBILE

API GATEWAY
DEVELOPMENT
FRAMEWORK
IDENTITY
MOBILE ANALYTICS

MOBILE APP TESTING
SINGLE INTEGRATED
CONSOLE
SYNC
TARGETED PUSH
NOTIFICATIONS

NETWORKING & CONTENT DELIVERY

APPLICATION DELIVERY
DEDICATED NETWORK CONNECTION
DOMAIN NAME SYSTEM
LOAD BALANCING
MONITOR APIS
MONITOR MICROSERVICES
NETWORK TOPOLOGY
NETWORKING HUB
PRIVATE CONNECTION TO APPS
SCALE VPC & ACCOUNT CONNECTIONS
SERVICE DISCOVERY
VIRTUAL PRIVATE CLOUD

ROBOTICS

CLOUD ROBOTICS

SATELLITE

SATELLITE OPERATIONS

SECURITY, IDENTITY, & COMPLIANCE

ACCESS CONTROL
ASSESSMENT & REPORTING
CONFIGURATION COMPLIANCE
DATA PROTECTION
DDOS PROTECTION
IDENTITY MANAGEMENT
KEY MANAGEMENT & STORAGE
MONITORING & LOGGING
RESOURCE MANAGEMENT
THREAT DETECTION
WEB APPLICATION FIREWALL

STORAGE

ARCHIVE STORAGE
BACKUP & RESTORE
BLOCK STORAGE
DATA TRANSFER
EDGE PROCESSING & COMPUTING
FILE STORAGE
HIGH-PERFORMANCE FILE SYSTEM
HYBRID CLOUD STORAGE
OBJECT STORAGE
WINDOWS FILE SYSTEM

CUSTOMER ENABLEMENT

ACCOUNT MANAGEMENT
DASHBOARD PERSONALIZATION
ENTERPRISE SUPPORT
EXPERTS MARKETPLACE
OPTIMIZATION GUIDANCE
PARTNER ECOSYSTEMS
PROFESSIONAL SERVICES
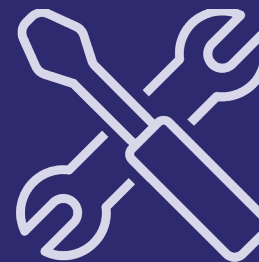SECURITY & BILLING REPORTS
SOLUTIONS MANAGEMENT
TRAINING & CERTIFICATION

"Many presidents believe that their institutions will respond to the pandemic and economic recession by transforming their institution or resetting for growth."

Inside Higher Ed, *2021 Survey of College and University Presidents*

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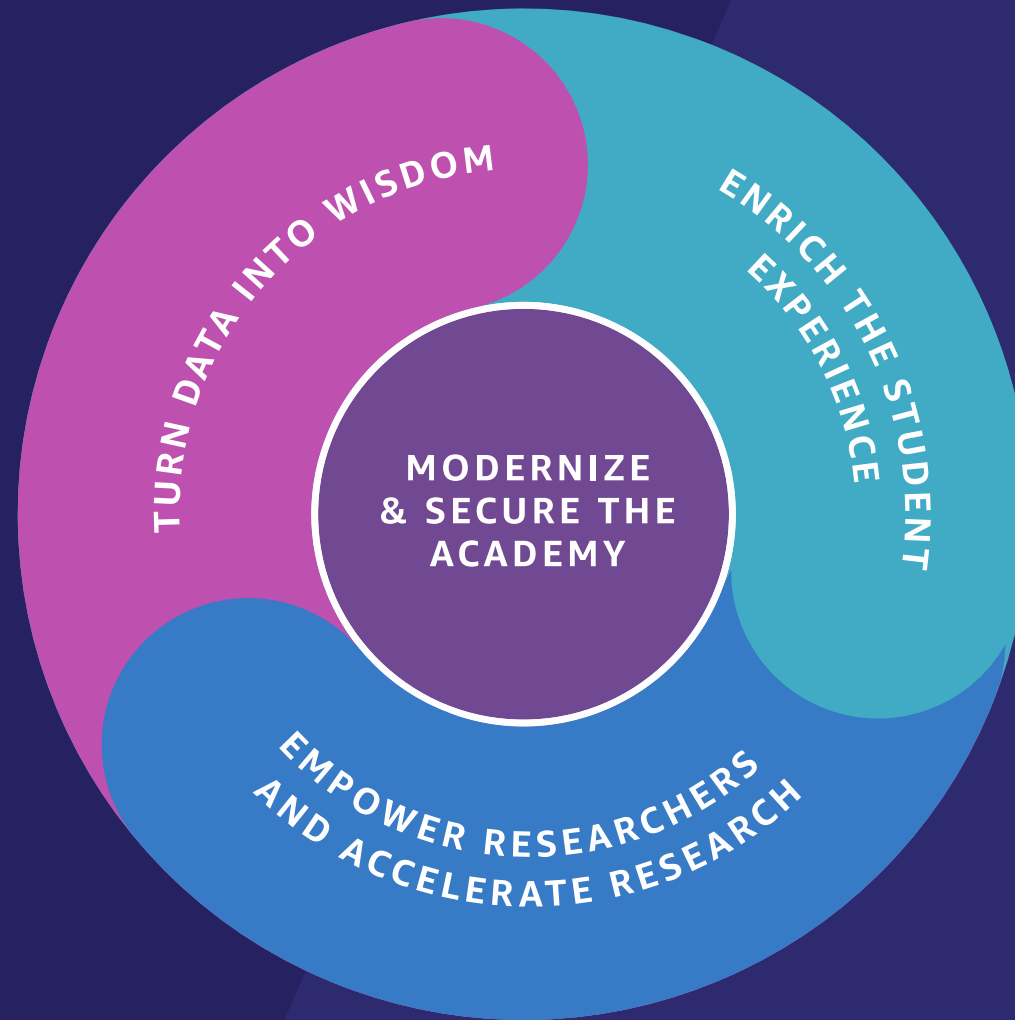# Institutions don't feel equipped...

...for change

Our mission

Accelerate the digital transformation of education in partnership with the full education community.

aws

Four ways AWS helps

TURN DATA INTO WISDOM

ENRICH THE STUDENT EXPERIENCE

MODERNIZE & SECURE THE ACADEMY

EMPOWER RESEARCHERS AND ACCELERATE RESEARCH

Modernize and secure the academy

"We're going all-in on AWS. **Eighty percent** of what we do today on the operational floor will disappear."

William Britton, Vice President of Information Technology and Chief Information Officer, California Polytechnic State University

MODERNIZE
& SECURE THE
ACADEMY

Turn data into wisdom

" **It's been a great accomplishment** to look back and see that something that was a large —and pretty overwhelming —idea has come together and is helping us make progress toward our larger goals. "

Doug Glaze, Chief Technology Officer, Maryville University

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TURN DATA
INTO WISDOM

Enrich the student experience

"With the move to virtual learning, contact center call volumes more than quadrupled, but costs went down by nearly 30 percent."

Antonino Cummings, PMP, Technical Project Manager, University of Texas at Austin (UT)

ENRICH THE STUDENT EXPERIENCE

Empower researchers and accelerate research

" Using bare-bones AWS architecture, the Open Virome team saves the scientific community millions of dollars and years of time in discovering new viruses. "

Blog post about the Open Virome Project

EMPOWER RESEARCHERS & ACCELERATE RESEARCH

Education is built on AWS

Teaching and Learning	Administrative	IT and Security

Thank you!

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