AWS re/Start Agenda

WEEK 1 – INTRODUCTION, CLOUD FOUNDATIONS

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Opening	20	Recap	20	Recap	20	Recap	20	Recap	20
Welcome & Expectations	45	**Activity:** Think Big	120	**Activity:** Cloud Roles	90	Communication and STAR methodology	135	AWS Services and Service Category Overview and Knowledge Check	50
Break	15	**Break**	15	**Break**	15	**Break**	15	AWS Shared Responsibility Model and Knowledge Check	35
Program Overview and Introductions	60	Introduction to Computing and Knowledge Check	50	**Activity:** Setting Goals	105	What is Amazon Web Services (AWS) and Knowledge Check	55	**Break**	15
Curriculum Overview	30	**Lunch**	45	**Lunch**	45	**Lunch**	45	Amazon Simple Storage Service (S3)	20
Lunch	45	Basic Computing Concepts and Knowledge Check	55	**Activity:** Career Goals	45	Introduction to AWS Training and Certification	45	Amazon S3 Demo and Knowledge Check	40
Vendor Introduction	45	**Break**	15	**Break**	15	**Break**	15	**Lunch**	45
Break	15	Development Team Roles and Knowledge Check	40	Advantages of Cloud Computing and Knowledge Check	95	Fundamentals of AWS Pricing and Knowledge Check	45	Amazon Elastic Compute Cloud (EC2) and Demo	60
Self-Assessment: Who Am I?	45	What is Cloud Computing and Knowledge Check	45	**Exit Ticket**	20	AWS Infrastructure Overview and Knowledge Check	45	**Lab:** Introduction to Amazon EC2 and Knowledge Check	60
Activity: Introduction to Amazon Leadership Principles	30	**Exit Ticket**	20			**Exit Ticket**	20	**Break**	15
Introduce Exit Ticket Activity	15	Flex Time	25			Flex Time	10	**Recap and Quiz:** Cloud Foundations	45
Exit Ticket	20							Review Cloud Foundations	25
Flex Time	65							**Exit Ticket**	20

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AWS re/Start Agenda

WEEK 2 - LINUX

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	15	Recap	20	Recap	20	Recap	20	Recap	20
Introduction to Linux	50	Editing Files	65	**Lab:** Working with Files and Knowledge Check	45	Managing Processes	65	**Lab:** Bash Shell and Knowledge Check	45
Lab: Introduction to Linux and Knowledge Check	45	**Break**	15	**Break**	15	**Break**	15	**Break**	15
Break	15	**Lab:** Editing Files and Knowledge Check	75	Managing File Permissions	60	**Lab:** Managing Processes and Knowledge Check	60	Bash Shell Scripting	110
Linux Command Line	75	Working with the File System	65	**Lab:** Managing File Permissions and Knowledge Check	50	Managing Services	65	**Lunch**	45
Lunch	45	**Lunch**	45	**Lunch**	45	**Lunch**	45	**Lab:** Bash Shell Scripting and Knowledge check	40
Lab: Linux Command Line and Knowledge Check	45	**Lab:** Working with the File System and Knowledge Check	45	Working with Commands	90	**Lab:** Managing Services and Knowledge Check	45	**Break**	15
Users and Groups	65	**Break**	15	**Break**	15	**Break**	15	**Activity:** Customer Obsession	50
Break	15	Working with Files	65	**Lab:** Working with Commands and Knowledge Check	45	The Bash Shell	75	**Exit Ticket**	20
Lab: Users and Groups and Knowledge Check	60	**Exit Ticket**	20	Flex Time	45	**Exit Ticket**	20	Flex Time	90
Exit Ticket	20	Flex Time	20	**Exit Ticket**	20	Flex Time	25		

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AWS re/Start Agenda

WEEK 3 – LINUX, NETWORKING

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20
Software Management	40	Professional Outlook	135	**Lab:** Public and Private IPs	60	**Lab:** Networking resources for a VPC	60	**Activity:** Learn and Be Curious	50
Break	15	**Break**	15	**Break**	15	**Break**	15	**Break**	15
Lab: Software Management and Knowledge Check	40	Introduction to Networking and Knowledge Check	50	**Lab:** Dynamic and Static IPs	60	Emotional Intelligence	90	**Lab:** Troubleshooting Commands	60
Managing Log Files	70	**Lunch**	45	Networking in the AWS Cloud	55	**Lunch**	45	**Lab:** Troubleshooting Network Issue	60
Lunch	45	Networking Concepts and Knowledge Check	65	**Lunch**	45	IP Subnetting and Knowledge Check	85	**Lunch**	45
Lab: Managing Log Files and Knowledge Check	25	**Break**	15	AWS VPC Demonstration	45	**Break**	15	Additional Networking Protocols	75
Break	15	Internet Protocol	45	Amazon VPC Knowledge Check	15	Alumni presentation with Students	90	**Break**	15
Challenge Lab: Advanced Bash Shell Scripting on EC2	55	Internet Protocol (IP) Demo and Knowledge Check	35	**Break**	15	**Exit Ticket**	20	Additional Networking Protocols Activities and Knowledge Check	35
Review Linux	30	**Exit Ticket**	20	**Lab:** Create subnets in a VPC	60	Flex Time	10	**Exit Ticket**	20
Exit Ticket	20	Flex Time	5	**Exit Ticket**	20			Flex Time	55
Flex Time	75			Flex Time	40				

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AWS re/Start Agenda

WEEK 4 – NETWORKING, SECURITY

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	10	Recap	20	Recap	20	Recap	20	Recap	20
Lab: Build your VPC and launch a web server	60	Introduction to Security	65	**Lab:** Systems Hardening and Knowledge Check	75	AWS Identity and Access Management (IAM)	30	Response	45
Break	15	**Break**	15	**Break**	15	**Break**	15	**Break**	15
Additional Networking Technologies and Knowledge Check	40	Introduction to Security Knowledge Check	15	Prevention: Data Security	35	**Lab:** Introduction to IAM and Knowledge Check	60	**Activity:** Incident Response and Knowledge Check	45
Review Networking	20	Security Life Cycle: Prevention	65	**Lab:** Data Protection Using Encryption and Knowledge Check	60	Detection	40	Analysis	45
Lunch	45	Security Life Cycle – Prevention Knowledge Check	15	**Lunch**	45	**Lunch**	45	**Lunch**	45
Digital Presence	95	**Lunch**	45	Prevention: Public Key Infrastructure and Demo	35	**Lab:** Malware Protection and Knowledge Check	60	**Lab:** Monitor an EC2 Instance and Knowledge Check	75
Interview settings (lecture)	35	Prevention: Network Hardening	75	**Demo:** Amazon Certificate Manager and Knowledge Check	25	AWS CloudTrail and Knowledge Check	35	**Break**	15
Break	15	**Break**	15	Prevention: Identity Management	65	**Break**	15	**Activity:** Earn Trust	50
Interview process (lecture)	50	**Lab:** Networking Hardening and Knowledge Check	60	**Break**	15	AWS Config and Knowledge Check	50	Presentation from future peers at company	40
Interview Practice	45	Prevention: System Hardening	40	Prevention: Identity Management Knowledge Check	15	**Exit Ticket**	20	**Exit Ticket**	20
Exit Ticket	20	**Exit Ticket**	20	**Exit Ticket**	20	Flex Time	60	Flex Time	35
				Flex Time	25				

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WEEK 5 – SECURITY, PYTHON PROGRAMMING

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20
AWS Trusted Advisor and Knowledge Check	80	Introduction to Programming - What is Programming?	25	**Lab:** Categorize values	60	Introduction to Programming - Version Control	30	Meet future peers at company	45
Break	15	AWS Cloud 9 Instructor Demonstration	30	Introduction to Programming - Combine Values into Composite Data Types	15	**Break**	15	**Break**	15
Security Best Practices and Knowledge Check	35	**Break**	15	**Lab:** Composite data types	60	**Lab:** Create a git repository and Knowledge Check	75	**Lab:** Working with the string sequence and numeric weight of insulin in python and Knowledge Check	60
AWS Compliance Program and Knowledge Check	50	**Lab:** Hello World	60	**Break**	15	Introduction to Python	30	Interview Practice	30
Lunch	45	Introduction to Programming - Categorize a Value as a Data Type	20	Introduction to Programming - Functions	25	**Lunch**	45	**Lunch**	45
AWS Security Resources and Knowledge Check	35	**Lunch**	45	Introduction to Programming - Follow the Execution Path of a Program	15	**Lab:** Preparing to analyze insulin with Python and Knowledge Check	45	Flow Control	145
Review Security	30	**Lab:** Numeric data types	80	**Lunch**	45	**Break**	15	**Break**	15
Break	15	**Lab:** String data type	60	**Lab:** Conditionals **Lab:** Loops	60 60	Python Basics	145	**Lab:** Calculating the net charge of insulin using python lists and loops and Knowledge Check	55
Interview Practice	45	**Break**	15	**Break**	15	**Exit Ticket**	20	**Exit Ticket**	20
Hiring Process	60	**Lab:** List, tuple, dictionary	60	**Activity:** Have a Backbone	40	Flex Time	10		
Exit Ticket	20	**Exit Ticket**	20	**Exit Ticket**	20				

WEEK 6 – PYTHON PROGRAMMING, DATABASES

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AWS re/Start Agenda

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20
Functions	80	Python for System Administration	80	Knowledge Check (Debugging)	15	**Challenge lab:** Python	60	Data Interaction and Database Transaction and Knowledge Check	65
Break	15	**Break**	15	DevOps and Continuous Integration	40	**Break**	15	Creating Tables and Learning Different Data Types	90
Lab: Use functions to implement a Caesar Cipher and Knowledge Check	105	**Lab:** System Administration with Python and Knowledge Check	65	**Break**	15	Review Python	30	**Break**	15
Lunch	45	**Lunch**	45	**Lab:** Evaluate a DevOps tool	45	Exploring Cloud Job Postings	90	**Activity:** Creating tables and data types	30
Mods and Libraries	80	Debugging and Testing	70	**Lunch**	45	**Lunch**	45	**Lunch**	45
Break	15	**Lab:** Using the Debugger	40	**Lab:** Explore the value of automation	45	Explore Cloud Job Postings discussion	45	**Lab**: Database table operations and Knowledge Check	45
Lab: File handlers and modules for retrieving information about insulin and Knowledge Check	55	**Break**	15	**Break**	15	Introduction to Databases	40	**Break**	15
Exit Ticket	20	**Lab:** Debugging Hello World and Caesar Cipher	80	**Lab:** Compare and contrast automation and orchestration and Knowledge Check	60	**Break**	15	Interview Practice	45
Flex Time	15	**Exit Ticket**	20	Configuration Management and Knowledge Check	60	**Activity:** Introduction to Databases and Knowledge Check	55	Inserting Data into a Database	55
				Fact finding exercise: Python	70	**Exit Ticket**	20	**Exit Ticket**	20
				Exit Ticket	20	Flex Time	15	Flex Time	5

WEEK 7 – DATABASES

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20

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AWS re/Start Agenda

Day 1		Day 2		Day 3		Day 4		Day 5	
Lab: Inserting Data and Knowledge Check	40	**Activities and Lab:** Performing a Conditional Search and Knowledge Check	100	Retrieving Data	45	**Fact finding exercise:** Databases and Review	60	Networking (soft skills) Continued	100
Selecting Data	55	**Break**	15	**Lab:** Build your DB server and Knowledge Check	60	**Challenge lab:** Build and Access an RDS Server	45	**Break**	15
Break	15	Working with Functions	55	**Break**	15	**Break**	15	Interview Practice	45
Lab: Selecting data from a database and Knowledge Check	60	**Lunch**	45	Amazon RDS and Demonstration	60	Review Databases	30	**Lunch**	45
Resume Creation (Lecture)	35	**Lab:** Working with functions and Knowledge Check	60	**Lunch**	45	**Lunch**	45	Networking Event	180
Lunch	45	Organizing Data	55	**Lab:** Introduction to Amazon Aurora and Knowledge Check	55	Work on Resume	45	**Exit Ticket**	20
Work on Resume	45	**Break**	15	Amazon DynamoDB and Demonstration	60	**Break**	15	Flex Time	25
Break	15	**Lab:** Organizing Data and Knowledge Check	60	**Break**	15	Networking (soft skills)	95		
Performing a Conditional Search	90	**Exit Ticket**	20	**Lab:** Introduction to Amazon DynamoDB and Knowledge Check	50	**Exit Ticket**	20		
Exit Ticket	20	Flex Time	5	**Exit Ticket**	20	Flex Time	60		
Flex Time	10			Flex Time	5				

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WEEK 8 – JUMPSTART ON AWS (JAWS)

AWS Architecture, Systems Operations Overview, Tooling and Automation, Compute (Servers)

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20
Technical thought process	185	**Fact Finding exercise:** Well-Architected Framework	60	Teamwork and Collaboration (Continued)	90	**Café Activity:** Install and use the AWS CLI and Knowledge Check	90	Work on Resume	45
Break	15	**Break**	15	**Break**	15	**Break**	15	**Break**	15
AWS Cloud Adoption Framework	25	Knowledge Check (Well-Architected)	15	**Introduce Systems Operations**	15	**Review Systems Operations**	15	Interview Practice	45
Lunch	45	Review Well Architected	15	**Activity:** Troubleshooting Knowledge Base Introduction	15	**Introduce Tooling and Automation**	10	**Lunch**	45
AWS Well-Architected Framework (WAF)	30	Work on Resume	45	**Lunch**	45	AWS Systems Manager	30	**Introduce Compute (Servers)**	10
Deep Dive WAF Principles	20	**Lunch**	45	Understanding Systems Operations	60	**Lunch**	45	Computing on AWS and Demonstration	90
Break	15	Teamwork and Collaboration	45	**Break**	15	**Lab:** Using AWS Systems Manager	30	**Break**	15
Understanding Reliability and High Availability	20	**Break**	15	AWS Identity and Access Management (IAM) Review and Demonstration	80	Administration and Development Tools	25	Managing Your AWS Instances	75
Example of Transitioning a Data Center to the Cloud	30	Teamwork and Collaboration (Continued)	110	AWS Command Line Interface (AWS CLI)	75	Hosting a Static Website on Amazon S3	15	**Lab:** Creating Amazon EC2 Instances	50
Exit Ticket	20	**Exit Ticket**	20	**Exit Ticket**	20	**Break**	15	**Exit Ticket**	20
Flex Time	25	Flex Time	45			**Café Activity:** Create a website on Amazon S3 and Knowledge Check	90	Flex Time	20
						Review Tooling and Automation	15		
						Exit Ticket	35		

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WEEK 9 – JUMPSTART ON AWS (JAWS)

Compute (Servers), Compute (Scaling and Name Resolution), Compute (Containers and Serverless), Compute (Databases)

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20
Challenge lab: Linux EC2 Instance	75	**Introduce Computing (Scaling and Name Resolution)**	15	Leading the Automatic Scaling Prediction Challenge	85	**Fact Finding Exercise:** Cloud Foundations 1	90	Containers on AWS	45
Break	15	**Break**	15	**Break**	15	**Break**	15	**Break**	15
AWS Elastic Beanstalk	35	Elastic Load Balancing	65	Amazon Route 53 and Demonstration	95	**Introduce Compute (Containers and Serverless)**	10	AWS Step Functions	65
Lunch	45	**Lunch**	45	**Lunch**	45	AWS Lambda	30	**Café Activity:** Working with AWS Lambda	90
Café Activity: Troubleshoot create instance	60	ELB Load Balancers and Listeners	80	CloudFront	15	**Lunch**	45	**Lunch**	45
Knowledge Check (Compute [Servers])	15	**Break**	15	**Break**	15	**Challenge Lab:** AWS Lambda	105	Knowledge Check (Compute [Containers and Serverless])	15
Review Compute (Servers)	15	Amazon EC2 Auto Scaling	80	**Café Activity:** Amazon Route 53 Failover	90	**Break**	15	**Review Compute (Containers and Serverless)**	15
Break	15	**Lab:** Scale and Load Balance Your Architecture	45	Knowledge Check (Scaling and Name Resolution)	15	APIs and REST	30	**Break**	15
Networking Event	90	**Lab:** Using Auto Scaling	45	**Review Compute (Scaling and Name Resolution)**	15	Amazon API Gateway	30	**Introduce Compute (Databases)**	30
Exit Ticket	20	**Exit Ticket**	20	**Exit Ticket**	20	**Exit Ticket**	20	Amazon Redshift	60
Flex Time	45	Flex Time	5	Flex Time	20	Flex Time	40	**Exit Ticket**	20
								Flex Time	15

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WEEK 10 – JUMPSTART ON AWS (JAWS)

Compute (Databases), Networking, Storage and Archiving

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20
Amazon Aurora	60	Amazon VPC connectivity	90	Work on Resume	45	**Lab:** Working with EBS	50	**Lab:** Managing Storage	50
Break	15	**Break**	15	**Break**	15	**Break**	15	**Break**	15
AWS Database Migration Service	55	Securing and Troubleshooting Your Network	75	Elevator Pitch	65	Instance Store	60	AWS Storage Gateway	40
Café Activity: Migrate to Amazon RDS	80	**Lunch**	45	AWS re/Start Interview Preparation	45	Elastic File System	45	AWS Data Transfer and Migration Services	45
Lunch	45	**Lab:** Configuring a VPC	50	**Lunch**	45	Elastic File System Demonstration	15	**Lunch**	45
Knowledge Check (Compute [Databases])	15	**Break**	15	**Introduce Storage and Archiving**	10	**Lunch**	45	**Challenge Lab:** Amazon S3	75
Review Compute (Database Services)	15	**Café Activity:** Troubleshoot an Amazon VPC	90	Cloud Storage Overview	40	Amazon Simple Storage Glacier	60	**Break**	15
Break	15	Knowledge Check (Networking)	15	**Break**	15	**Break**	15	**Café Activity:** Working with Amazon S3	90
Introduce Networking	10	**Review Networking**	15	Amazon Elastic Block Store	105	Amazon S3 Glacier Demonstration	10	Knowledge Check (Storage and Archiving)	15
Cloud Networking-Amazon VPC	75	**Exit Ticket**	20	Amazon EBS Demonstration	20	Deep Dive: Amazon S3 and the AWS CLI	60	**Review Storage and Archiving**	15
Exit Ticket	20			**Exit Ticket**	20	**Exit Ticket**	20	**Exit Ticket**	20
Flex Time	25			Flex Time	5	Flex Time	35	Flex Time	5

aws re/start

AWS re/Start Agenda

WEEK 11 - JUMPSTART ON AWS (JAWS)

Monitoring and Security, Managing Resource Consumption, Creating Automated and Repeatable Deployments

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20
Introduce Monitoring and Security	10	**Café Activity:** Working with AWS CloudTrail and Knowledge Check	90	**Café Activity:** Optimize Utilization and Knowledge Check	60	Amazon EC2 Launch Templates	75	Troubleshoot with AWS CloudFormation	60
Amazon CloudWatch	75	**Break**	15	**Break**	15	Amazon EC2 Launch Templates Demonstration	15	**Break**	15
Break	15	**Review Monitoring and Security**	15	**Review Managing Resource Consumption**	15	**Break**	15	**Café Activity:** Troubleshoot AWS CloudFormation Deployments	45
Deep Dive: Amazon CloudWatch - Logs and Events	60	**Introduce Managing Resource Consumption**	10	**Fact Finding exercise:** Cloud Foundations 2	75	Infrastructure as Code	30	**Lunch**	45
Lunch	45	Introduction to AWS Organizations	25	**Lunch**	45	Introduction to JSON and YAML	60	**Fact Finding Exercise:** CloudFormation	60
Lab: Monitoring your applications and infrastructure	65	**Lunch**	45	Networking Event	65	**Lunch**	45	**Break**	15
Break	15	Tagging	35	**Introduce Creating Automated and Repeatable Deployments**	10	AWS CloudFormation	95	**Challenge Lab:** CloudFormation	90
AWS CloudTrail	75	**Lab:** Managing Resources with Tagging	30	**Break**	15	**Break**	15	Knowledge Check (Creating Automated and Repeatable Deployments)	15
AWS Service Integration with Amazon Athena	30	Cost Management and Best Practices and Billing Demonstration	65	Creating Automated and Repeatable Deployments	45	**Lab:** Automate Deployments with AWS CloudFormation	45	**Review Automated and Repeatable Deployments**	15
Exit Ticket	20	**Break**	15	AMI Building Strategy	60	**Exit Ticket**	20	**Exit Ticket**	20
Flex Time	20	AWS Support Services	40	**Exit Ticket**	20	Flex Time	15	Flex Time	50
		Exit Ticket	20	Flex Time	5				
		Flex Time	25						

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WEEK 12 – CERTIFICATION PREPARATION

Course wrap-up, Certification preparation, Cloud Practitioner exam

DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
Recap	20	Recap	20	Recap	20	Recap	20	Recap	20
Review AWS re/Start Post-Graduate Resources	45	Cloud Practitioner Essentials Knowledge Checks	75	Review product FAQ, review AWS, AWS whitepapers, exam blueprint	80	Review product FAQ, review AWS, AWS whitepapers, exam blueprint	80	Exam Day	335
Break	15	**Break**	15	**Break**	15	**Break**	15		
Interview practice	80	Cloud Practitioner Essentials Knowledge Checks	80	Review product FAQ, review AWS, AWS whitepapers, exam blueprint	85	Review product FAQ, review AWS, AWS whitepapers, exam blueprint	85		
Lunch	45	**Lunch**	45	**Lunch**	45	**Lunch**	45		
Company Visit	90	Networking Event	90	Mock exam and review	80	Mock exam and review	80		
Break	15	**Break**	15	**Break**	15	**Break**	15		
Company Visit	120	Networking Event	90	Mock exam and review	90	Mock exam and review	85		
Exit Ticket	20	**Exit Ticket**	20	**Exit Ticket**	20	**Exit Ticket**	20		

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