ENTERPRISE SYSTEMS INTEGRATION

ACIT4850 – WINTER 2024

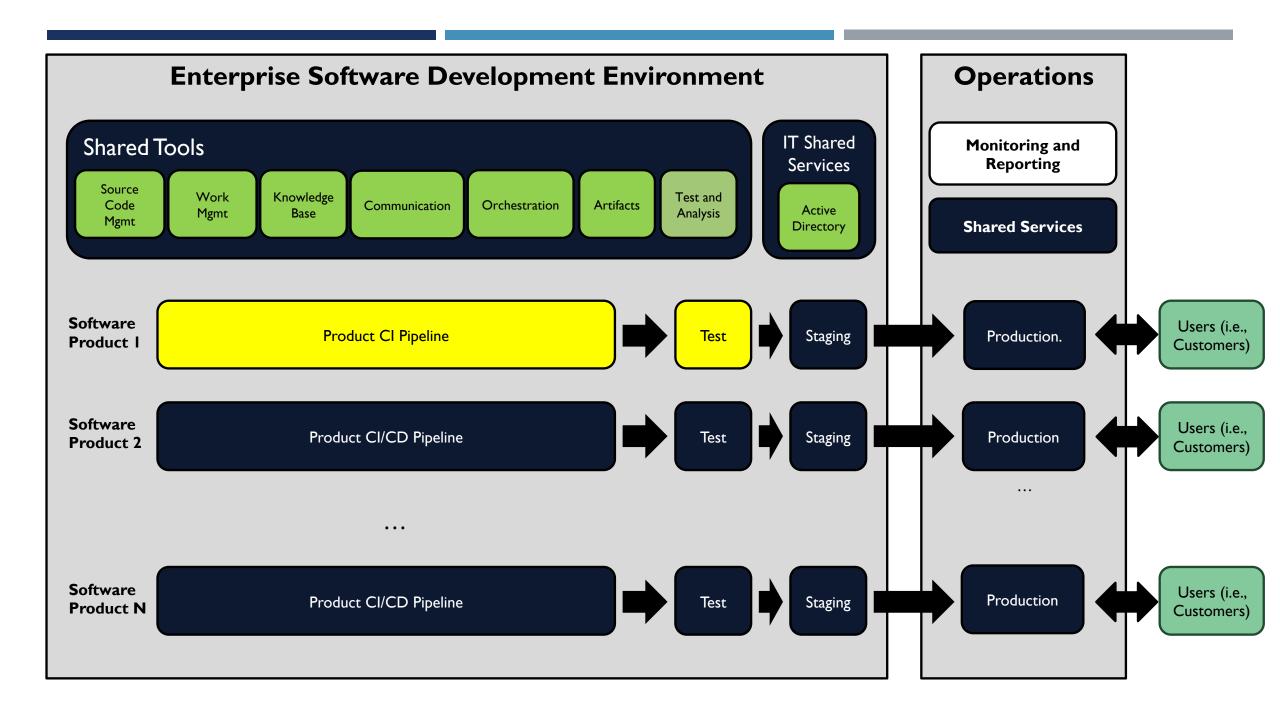


AGENDA – LESSON I I

- Quiz 10 on D2L
- Experimental Lab I I GitLab CI/CD Variables and Templates

QUIZ 10

- Open Book You can use the Lesson 11 reading materials
- You have 15 minutes to complete
- We will resume in 15 minutes, or when everyone is done



THE ROADMAP (AKA COURSE SCHEDULE)

Week	Topics	Notes
I	Components of an Enterprise Development Environment	Lab I
	Software Source Code Management	
2	Work Management and Knowledge Base Tools	Lab 2, Quiz I
3	Tool Selection – Requirements	Lab 3, Quiz 2
	Integration and Security	
4	Tool Selection – Stakeholders/Process	Lab 4, Quiz 3
	Continuous Integration (CI) Tool	
	Cl Tool Setup	
5	CI Pipelines – Python	Lab 5, Quiz 4
6	 CI Pipelines – Shared Libraries 	Lab 6, Quiz 5, Assignment 1 Due
7	 CI Pipelines – Java and Static Code Analysis 	Lab 7, Quiz 6 (Sets A and B)
	Note: At home lab for Monday set	
8	Midterm	Midterm Review Quiz
9	 CI Pipelines – Alternate Tools (GitLab CI) 	Lab 8, Quiz 6 (Set C), Quiz 7
10	Spring Break	
- 11	 Continuous Delivery (CD) 	Lab 9, Quiz 8, Assignment 2 Due
	CD Pipelines - Containerization	
12	CD Pipelines – Deployment	Lab 10, Quiz 9
	Developer Workflows	
13	CD Pipelines – Alternate Tools (GitLab CI)	Lab 11, Quiz 10 (Sets A and B)
	Note: At home lab for Monday Set	
14	Microservices Pipelines	Quiz 10 (Set C), Assignment 3 Due
	Final Exam Preview	
15	Final Exam	

LAB II

- Add the Package and Deploy stages to your GitLab CI Point Pipeline
- Use CI/CD Variables for:
 - Deployment UI Variable
 - Docker Login CI/CD Variable (Masked)
 - Conditional Package Stage Built-in Variable in a Rule
- Create template jobs and use them in the GitLab CI Point Pipeline and a GitLab CI CarLot pipeline