

Networking KSAs for Curriculum Alignment

1. Cloud						
	KSA Description	Knowledge, Skill, or Ability?	Bloom's Taxonomy Level?	Cross-cutting KSAs	Course Number/Name	Learning Outcome
a	Demonstrate an understanding of cloud architecture and the capabilities of services such as AWS, Azure, IBM, Oracle and Google.	Knowledge	2	Cyber Security 4d, Software Development 1g, Data Management 1p, Machine Learning 1i		
b	Describe the fundamental cloud components (e.g., shared or dedicated processing, storage, memory, networking, hypervisor).	Knowledge	2	Cybersecurity 4a		
c	Differentiate between public, private, and hybrid clouds.	Knowledge	2	Cybersecurity 4b		
d	Identify common breaches and threats in the cloud environment.	Knowledge	1	Cybersecurity 4f		
e	Instantiate a small computing environment in a cloud service.	Ability	3	Cybersecurity 4e		
f	Explain the pros and cons of on-premises vs cloud-based analytics solutions.	Knowledge	2	Data Analytics 2c		
g	Understand how to provision cloud services (e.g., Software as a Service [SaaS], Platform as a Service [PaaS], Infrastructure as a Service [IaaS], Security as a Service).	Knowledge	2			
h	Understand how to set security configurations in a cloud environment.	Knowledge	2	Cybersecurity 4g		
i	Understand the concept of opening/extending the network perimeter and the role of cloud access security (CAS).	Knowledge	2	Cybersecurity 8u		