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## Cloud Computing Essentials

**Duration: 2 Days    Course Code: GK3210**

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### Overview:

Explore the potential of cloud computing in this interactive course. Gain clarity about the rapidly developing world of cloud computing and discover its potential in this interactive four-day course. You will learn about the evolution of the cloud and how increases in processing power and bandwidth have made cloud computing possible today. You will also learn who's who in today's world of cloud computing and what products and services they offer. You will explore the financial benefits as well as the security risks, and you will gain a solid understanding of fundamental concepts, deployment, architecture, and design of the fast-growing field of cloud computing.

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### Target Audience:

Those interested in learning the essentials of cloud computing, including an IT manager who is determining whether or not to use cloud services, an implementer who needs to understand the cloud, or sales or marketing professionals who sell cloud services.

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### Objectives:

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| ■ Essential elements of cloud computing                                | ■ Products used to implement the virtualization architecture   |
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| ■ Pros and cons of cloud computing                                     | ■ Security and privacy issues with cloud computing             |
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| ■ Who's who in cloud computing and the product and services they offer | ■ Federation and presence                                      |
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| ■ The business case for going to the cloud                             | ■ Cloud computing standards and best practices                 |
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| ■ How to build a cloud network   | ■ Platforms and applications used by cloud computing end users |
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| ■ Virtualization architecture  | ■ How mobile devices can be used in the cloud                  |
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### Prerequisites:

- There are no prerequisites for this course.
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### Follow-on-Courses:

- Data Center Infrastructure Management
  - VMware vSphere: Install, Configure, Manage [V4.1]
  - VMware View: Install, Configure, Manage [V4.5]
  - Enterprise Virtualization Using Microsoft Hyper-V (M6422, M6331)
  - DCASD - Data Center Application Services v2.0
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## Content:

### 1. Introduction to Cloud Computing

■ What is Cloud Computing?	■ Cloud Computing Infrastructure	■ Cloud Computing Infrastructure
■ Cloud Computing Defined	■ Cloud Computing Terms	■ Cloud Computing Terms
	■ Benefits and Limitations of Cloud Computing	■ Benefits and Limitations of Cloud Computing
	■ Benefits	■ Benefits
■ Cloud Computing Infrastructure	■ Limitations	■ Limitations
■ Cloud Computing Terms	■ Cloud Computing Case Studies	■ Cloud Computing Case Studies
■ Benefits and Limitations of Cloud Computing	■ How Companies Are Using Cloud Computing	■ How Companies Are Using Cloud Computing
■ Benefits	■ Implementing Applications and Services in the Cloud	■ Implementing Applications and Services in the Cloud
■ Limitations	■ Using Your Company's Services vs. the Cloud Provider	■ Using Your Company's Services vs. the Cloud Provider
■ Cloud Computing Case Studies	■ A Cloud Service Provider Introduced	■ A Cloud Service Provider Introduced
■ How Companies Are Using Cloud Computing	■ Cloud Computing Risks and Issues	■ Cloud Computing Risks and Issues
■ Implementing Applications and Services in the Cloud	■ Products and Services Provided by Cloud Computing Companies	■ Products and Services Provided by Cloud Computing Companies
■ Using Your Company's Services vs. the Cloud Provider	■ Economic	■ Economic
■ A Cloud Service Provider Introduced	■ Staffing	■ Staffing
■ Cloud Computing Risks and Issues	■ Should Your Company Invest in Cloud Computing?	■ Should Your Company Invest in Cloud Computing?
■ Products and Services Provided by Cloud Computing Companies	■ What Should Not be Moved to the Cloud	■ What Should Not be Moved to the Cloud
■ Economic	■ LANs and the Cloud	■ LANs and the Cloud
■ Staffing	■ Internet and the Cloud	■ Internet and the Cloud
■ Should Your Company Invest in Cloud Computing?	■ Web Services, Browsers, and the Cloud	■ Web Services, Browsers, and the Cloud
■ What Should Not be Moved to the Cloud	■ Thin Client	■ Thin Client
■ LANs and the Cloud	■ Advances in Networking and Processing Speeds that Led to Cloud Computing	■ Advances in Networking and Processing Speeds that Led to Cloud Computing
■ Internet and the Cloud	■ Networking Developments	■ Networking Developments
■ Web Services, Browsers, and the Cloud	■ Increased Processing Speeds	■ Increased Processing Speeds
■ Thin Client	■ Managed Service Provider Model to Cloud Computing and Software as a Service (SaaS)	■ Managed Service Provider Model to Cloud Computing and Software as a Service (SaaS)
■ Advances in Networking and Processing Speeds that Led to Cloud Computing	■ Single Purpose Architectures Migrate to Multipurpose Architectures	■ Single Purpose Architectures Migrate to Multipurpose Architectures
■ Networking Developments	■ Data Center Virtualization	■ Data Center Virtualization
■ Increased Processing Speeds	■ Collaboration	■ Collaboration
■ Managed Service Provider Model to Cloud Computing and Software as a Service (SaaS)	■ The Cloud as a Reach Extender	■ The Cloud as a Reach Extender
■ Single Purpose Architectures Migrate to Multipurpose Architectures	■ The Cloud as a Communication Enabler	■ The Cloud as a Communication Enabler
■ Data Center Virtualization	■ The Cloud as an Employee Enabler	■ The Cloud as an Employee Enabler
■ Collaboration	■ Service-Oriented Architecture (SOA)	■ Service-Oriented Architecture (SOA)
■ The Cloud as a Reach Extender	■ Evolving from SOA to the Cloud	■ Evolving from SOA to the Cloud
■ The Cloud as a Communication Enabler	■ Capacity: Limited Performance	■ Capacity: Limited Performance
■ The Cloud as an Employee Enabler	■ Availability: Communications Failure and Performance Issues	■ Availability: Communications Failure and Performance Issues
■ Service-Oriented Architecture (SOA)	■ Security: Newer Security Protocols Provide More Protection	■ Security: Newer Security Protocols Provide More Protection
■ Evolving from SOA to the Cloud	■ What's Next in Cloud Computing	■ What's Next in Cloud Computing
■ Capacity: Limited Performance	■ Independent Components	■ Independent Components
■ Availability: Communications Failure and Performance Issues	■ Message Base	■ Message Base
■ Security: Newer Security Protocols Provide More Protection	■ Location Independence	■ Location Independence
■ What's Next in Cloud Computing	■ Communication Requirements for Cloud Implementation	■ Communication Requirements for Cloud Implementation
■ Independent Components	■ Public Internet	■ Public Internet
■ Message Base	■ Private Internet	■ Private Internet
■ Location Independence	■ Routing to the Datacenter	■ Routing to the Datacenter
■ Communication Requirements for Cloud Implementation	■ Switching within the Data Center	■ Switching within the Data Center
■ Public Internet	■ Bandwidth	■ Bandwidth
■ Private Internet	■ Tools Used to Measure Network Performance	■ Tools Used to Measure Network Performance
■ Routing to the Datacenter	■ Using the Protocol Analyzer to Measure Bandwidth	■ Using the Protocol Analyzer to Measure Bandwidth
■ Switching within the Data Center		
■ Bandwidth		

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- The Interrelation of Identity, Presence, and Location in the Cloud
- Identity Management
- What It Is
- Future of Identity in the Cloud
- Privacy and Its Relation to Cloud-Based Information Systems
- Personal Information
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- Finding Your Private Information
- Open Cloud Consortium Working Groups
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- Server Extensions
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- Smart Phones, Pads, Pods, etc.
- Virtual Terminal Security Strengths and Weaknesses
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- Android
- BlackBerry
- Windows Mobile
- Ubuntu Mobile Internet Device
- Mobile Platform Virtualization
- Kernel-Based Virtual Machine
- VMware Mobile Virtualization Platform
- Collaboration Applications for Mobile Platforms
- Text Messaging
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■ Clustering	■ Internet and the Cloud	■ Evolving from SOA to the Cloud
■ Expansion	■ Web Services, Browsers, and the Cloud	■ Capacity: Limited Performance
■ Server Functions	■ Thin Client	■ Availability: Communications Failure and Performance Issues
■ Application	■ Advances in Networking and Processing Speeds that Led to Cloud Computing	■ Security: Newer Security Protocols Provide More Protection
■ Web	■ Networking Developments	■ What's Next in Cloud Computing
■ Database	■ Increased Processing Speeds	■ Independent Components
■ Vendor Approaches to Cloud Computing	■ Managed Service Provider Model to Cloud Computing and Software as a Service (SaaS)	■ Message Base
■ Role of Open Source Software in Data Center	■ Single Purpose Architectures Migrate to Multipurpose Architectures	■ Location Independence
■ Cost Reduction vs. Reliability	■ Data Center Virtualization	■ Communication Requirements for Cloud Implementation
■ Open Source Server Software	■ Collaboration	■ Public Internet
■ Open Source Database Software	■ The Cloud as a Reach Extender	■ Private Internet
■ Open Source Applications Software	■ The Cloud as a Communication Enabler	■ Routing to the Datacenter
■ Open Source System Management Software	■ The Cloud as an Employee Enabler	■ Switching within the Data Center
■ Open Source Load-Balancing Software	■ Service-Oriented Architecture (SOA)	■ Bandwidth
■ Virtualization as the "Operating System"	■ Evolving from SOA to the Cloud	■ Tools Used to Measure Network Performance
■ Virtualization with a Host Operating System	■ Capacity: Limited Performance	■ Using the Protocol Analyzer to Measure Bandwidth
■ Virtualization Infections on Virtualized Environments	■ Availability: Communications Failure and Performance Issues	■ Using Ping and Traceroute to Measure Network Performance
■ Type 1 Virtualized Environment	■ Security: Newer Security Protocols Provide More Protection	■ Security
■ Type 2 Virtualized Environment	■ What's Next in Cloud Computing	■ SSL
■ Virtualization Environments	■ Independent Components	■ VPN
■ Microsoft Virtualization	■ Message Base	■ Overhead
■ Sun xVM VirtualBox	■ Location Independence	■ Storage Options for Cloud Computing
■ Linux/UNIX Virtualization	■ Communication Requirements for Cloud Implementation	■ Storage Capacity
■ VMware Products	■ Public Internet	■ Data Protection and Partitioning
■ Data Center and Cloud Infrastructure Products	■ Private Internet	■ NAS
■ End-User and Desktop Products	■ Routing to the Datacenter	■ SAN
■ IBM Virtualization	■ Switching within the Data Center	■ CAS
■ Using VMware to see a Virtualized Server Environment	■ Bandwidth	■ Redundancy
■ Permissive Federation	■ Tools Used to Measure Network Performance	■ Replication
■ Verified Federation	■ Using the Protocol Analyzer to Measure Bandwidth	■ Multisiting
■ Encrypted Federation	■ Using Ping and Traceroute to Measure Network Performance	■ Backup and Recovery
■ Trusted Federation	■ Security	■ Server Software Environments that Support Cloud Computing
■ Using XMPP in the Federated Environment	■ SSL	■ Server Capacity
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■ Leveraging Presence	■ Storage Capacity	■ Server Functions
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■ Privacy and Its Relation to Cloud-Based Information Systems	■ Multisiting	■ Open Source Server Software
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■ Virtualization	■ End-User and Desktop Products	■ Establishing a Baseline for Cloud Performance
■ Clustering	■ IBM Virtualization	■ Best Practices for Selecting a Vendor and Implementing Cloud-Based Applications
■ Expansion	■ Using VMware to see a Virtualized Server Environment	■ Choosing the Right Vendor
■ Server Functions	■ Permissive Federation	■ Implementing Cloud-Based Applications
■ Application	■ Verified Federation	■ Windows Remote Desktop
■ Web	■ Encrypted Federation	■ Vnc
■ Database	■ Trusted Federation	■ Web Browsers
■ Vendor Approaches to Cloud Computing	■ Using XMPP in the Federated Environment	■ Server Extensions
■ Role of Open Source Software in Data Center	■ Presence in the Cloud	■ Thin Clients
■ Cost Reduction vs. Reliability	■ What It Is	■ Smart Phones, Pads, Pods, etc.
■ Open Source Server Software	■ Presence Protocols	■ Virtual Terminal Security Strengths and Weaknesses
■ Open Source Database Software	■ Leveraging Presence	■ Strengths
■ Open Source Applications Software	■ Presence Enabled	■ Weaknesses
■ Open Source System Management Software	■ The Future of Presence	■ Android
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■ Virtualization with a Host Operating System	■ What It Is	■ Ubuntu Mobile Internet Device
■ Virtualization Infections on Virtualized Environments	■ Future of Identity in the Cloud	■ Mobile Platform Virtualization
■ Type 1 Virtualized Environment	■ Privacy and Its Relation to Cloud-Based Information Systems	■ Kernel-Based Virtual Machine
■ Type 2 Virtualized Environment	■ Personal Information	■ VMware Mobile Virtualization Platform
■ Virtualization Environments	■ Privacy-Related Issues	■ Collaboration Applications for Mobile Platforms
■ Microsoft Virtualization	■ Finding Your Private Information	■ Text Messaging
■ Sun xVM VirtualBox	■ Open Cloud Consortium Working Groups	■ iPhone Applications
■ Linux/UNIX Virtualization	■ Project Matsu	■ BlackBerry Applications
■ VMware Products	■ Project Comet	■ Droid Applications
■ Data Center and Cloud Infrastructure Products	■ HPC in the Cloud	
■ End-User and Desktop Products	■ The Open Cloud Testbed	
■ IBM Virtualization	■ The Open Science Data Cloud	
■ Using VMware to see a Virtualized Server Environment	■ Intercloud Testbed	
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■ Presence Enabled	■ Confidentiality, Integrity, Availability	
■ The Future of Presence	■ Authentication, Authorization, Accountability	
■ The Interrelation of Identity, Presence, and Location in the Cloud	■ Regulations for Privacy	
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(DMTF)	Smart Phones, Pads, Pods, etc.	(SaaS)
What It Is?	Virtual Terminal Security Strengths and Weaknesses	Single Purpose Architectures Migrate to Multipurpose Architectures
DMTK Working Groups Associated with Cloud Computing	Strengths	Data Center Virtualization
Standards for Application Developers	Weaknesses	Collaboration
Protocols	Android	The Cloud as a Reach Extender
Scripting Languages	BlackBerry	The Cloud as a Communication Enabler
Content Formatting Standards and Languages	Windows Mobile	The Cloud as an Employee Enabler
Standards for Security in the Cloud	Ubuntu Mobile Internet Device	Service-Oriented Architecture (SOA)
Confidentiality, Integrity, Availability	Mobile Platform Virtualization	Evolving from SOA to the Cloud
Authentication, Authorization, Accountability	Kernel-Based Virtual Machine	Capacity: Limited Performance
Regulations for Privacy	VMware Mobile Virtualization Platform	Availability: Communications Failure and Performance Issues
Security Protocols	Collaboration Applications for Mobile Platforms	Security: Newer Security Protocols Provide More Protection
Establishing a Baseline for Cloud Performance	Text Messaging	What's Next in Cloud Computing
Best Practices for Selecting a Vendor and Implementing Cloud-Based Applications	iPhone Applications	Independent Components
Choosing the Right Vendor	BlackBerry Applications	Message Base
Implementing Cloud-Based Applications	Droid Applications	Location Independence
Windows Remote Desktop		Communication Requirements for Cloud Implementation
Vnc	Cloud Computing Infrastructure	Public Internet
Web Browsers	Cloud Computing Terms	Private Internet
Server Extensions	Benefits and Limitations of Cloud Computing	Routing to the Datacenter
Thin Clients	Benefits	Switching within the Data Center
Smart Phones, Pads, Pods, etc.	Limitations	Bandwidth
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Weaknesses	Implementing Applications and Services in the Cloud	Using Ping and Traceroute to Measure Network Performance
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BlackBerry	A Cloud Service Provider Introduced	SSL
Windows Mobile	Cloud Computing Risks and Issues	VPN
Ubuntu Mobile Internet Device	Products and Services Provided by Cloud Computing Companies	Overhead
Mobile Platform Virtualization	Economic	Storage Options for Cloud Computing
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VMware Mobile Virtualization Platform	Should Your Company Invest in Cloud Computing?	Data Protection and Partitioning
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iPhone Applications	Internet and the Cloud	CAS
BlackBerry Applications	Web Services, Browsers, and the Cloud	Redundancy
Droid Applications	Thin Client	Replication
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	Collaboration	Expansion
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	The Cloud as a Communication Enabler	Application
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Virtualization	Multisiting	Project Matsu
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End-User and Desktop Products	Sun xVM VirtualBox	Server Extensions
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## Further Information:

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