INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous) Dundigal, Hyderabad -500 043

COMPUTER SCIENCE AND ENGINEERING

TUTORIAL QUESTION BANK

| Course Name | : | CLOUD COMPUTING |
|--------------------|---|---|
| Course Code | : | A70519 - R15 |
| Class | : | IV B. Tech I Semester |
| Branch | : | CSE |
| Year | : | 2018-19 |
| Course Coordinator | : | Ms. CH. Sri Vidya, Assistant Professor, CSE |
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OBJECTIVES

To meet the challenge of ensuring excellence in engineering education, the issue of quality needs to be addressed, debated and taken forward in a systematic manner. Accreditation is the principal means of quality assurance in higher education. The major emphasis of accreditation process is to measure the outcomes of the program that is being accredited.

In line with this, Faculty of Institute of Aeronautical Engineering, Hyderabad has taken a lead in incorporating philosophy of outcome based education in the process of problem solving and career development. So, all students of the institute should understand the depth and approach of course to be taught through this question bank, which will enhance learners learning process.

| S No | QUESTION | Blooms taxonomy level | Course Outcomes | | |
|------|--|-----------------------------|--------------------|--|--|
| | | | | | |
| | SYSTEM MODELING, CLUSTERING AND VIRTUALIZATION Part - A (Short Answer Questions) | | | | |
| 1 | Define distributed systems. | Remember | 1 | | |
| 2 | Write about parallel computing. | Understand | 1 | | |
| 3 | Write about virtual machines. | Understand | 1 | | |
| 4 | Define single system image. | Understand | 1 | | |
| 5 | Write about resources sharing in clusters. | Understand | 2 | | |
| 6 | Define public cloud. | Remember | 1 | | |
| 7 | Write about middleware support for virtualization. | Remember | 2 | | |
| 8 | Write about hybrid cloud. | Remember | 2 | | |
| 9 | Define virtual support at Operating System level. | Remember | 2 | | |



| 10 | List the disadvantages of extending Operating System level. | Remember | 2 |
|----|--|------------|---|
| 11 | What are the basic characteristics of cloud computing? | Understand | 2 |
| 12 | How does cloud computing provides on- demand functionality. | Remember | 2 |
| 13 | Define multi core central processing unit. | Remember | 1 |
| 14 | What is Cloud Broker? | Remember | 2 |
| 15 | Define anything-As-A-Service. | Understand | 1 |
| 16 | Write about private cloud, | Understand | 2 |
| 17 | List the differences between Distributed and Parallel Computing. | Understand | 2 |
| 18 | Define Cloud Provider. | Understand | 2 |
| 19 | List the design objectives of Cloud Computing. | Remember | 2 |
| 20 | Why should one prefer public cloud over private cloud? | Remember | 2 |
| | Part - B (Long Answer Questions) | | |
| 1 | Write about distributed system models and enabling technologies. | Remember | 1 |
| 2 | Explain in detail about system models and distributed cloud Computing. | Understand | 1 |
| 3 | Explain about design principles of computer clusters. | Remember | 2 |
| 4 | List out the design goals of computer clusters. | Remember | 2 |
| 5 | Explain about computer clusters and massively parallel processing architectures. | Understand | 2 |
| 6 | Write about technologies for network based system with suitable diagrams. | Remember | 2 |
| 7 | Write about virtual clusters and resource management. | Understand | 2 |
| 8 | Explain the virtualization structure/tools and mechanisms. | Understand | 1 |
| 9 | Explain the cluster architecture in detail. | Understand | 1 |
| 10 | What is cloud computing? list and explain three service models, and four deployment models of cloud computing. | Remember | 1 |
| 11 | Explain the cloud eco system. | Understand | 1 |
| 12 | Write about nist cloud computing reference architecture. | Remember | 2 |
| 13 | Explain the infrastructure of grid computing in detail. | Remember | 2 |
| 14 | Write about Multithreading Model in detail. | Understand | 2 |
| 15 | Explain the architecture of p2p system. | Remember | 2 |
| 16 | Write about infrastructure of grid computing in detail. | Remember | 1 |
| 17 | Explain the system models for distributed and cloud computing. | Understand | 2 |
| 18 | Write about architectural design of compute and storage clouds. | Understand | 1 |
| 19 | What is meant by virtualization middleware? | Understand | 1 |
| 20 | List the design issues in clusters. | Remember | 2 |
| | Part - C (Problem Solving And Critical Thinking Question | | |
| 1 | What are the three computing paradigms for cloud computing? | Remember | 2 |
| 2 | Draw a neat graph for hype cycle for emerging technologies. | Understand | 2 |
| 3 | Sketch a three cloud service models in a cloud landscape of major providers. | Remember | 2 |
| 4 | Explain in detail about evaluation of service oriented architecture. | Understand | 2 |
| 5 | Write about infrastructure of grid computing in detail. | Remember | 2 |

| 6 | Explain about parallel and distributed programming models. | Understand | 2 |
|----|--|------------|---|
| 7 | Discuss Graphics processing unit clusters for massive parallelism. | Remember | 2 |
| 8 | How does cloud architecture overcome the difficulties faced by traditional architecture? What are the three differences that separate out cloud architecture from the tradition one? | Understand | 2 |
| 9 | Explain the virtualization for data center automation. | Remember | 2 |
| 10 | Explain the concept dynamic deployment of virtual clusters. | Remember | 2 |
| | UNIT – II FOUNDATIONS | | |
| | Part – A (Short Answer Questions) | | |
| 1 | Define Cloud. | Remember | 4 |
| 2 | How does cloud computing provides on demand functionality? | Remember | 3 |
| 3 | Define Cloud Computing. | Understand | 3 |
| 4 | List out characteristics of cloud computing. | Remember | 3 |
| 5 | Define Utility computing. | Remember | 3 |
| 6 | List out the features of cloud computing. | Remember | 3 |
| 7 | Define Grid Computing. | Understand | 3 |
| 8 | What is Autonomic Computing? | Understand | 3 |
| 9 | List out the challenges in cloud. | Remember | 3 |
| 10 | What is Boomi Software? | Remember | 3 |
| 11 | List the design goals for generic cloud. | Remember | 3 |
| 12 | List the cloud enabling technologies. | Understand | 4 |
| 13 | What are the Operating System factors in cloud? | Understand | 4 |
| 14 | Define Hardware Virtualization. | Remember | 4 |
| 15 | What is Storage Virtualization? | Remember | 4 |
| 16 | Define Virtual machine Cloning. | Understand | 4 |
| 17 | What is Runtime Support Service? | Understand | 4 |
| 18 | Define Software Stack. | Remember | 4 |
| 19 | List out different layers which define cloud architecture. | Remember | 4 |
| 20 | What is the use of "eucalyptus" in cloud computing? | Understand | 4 |
| | Part - B (Long Answer Questions) | II | |
| 1 | What is cloud computing? enlist and explain three service models, and four deployment models of cloud computing? | Understand | 3 |
| 2 | Explain the system models for distributed and cloud computing. | Remember | 4 |
| 3 | Write about the architecture of P2P system? | Remember | 4 |
| 4 | Explain architectural design of compute and storage clouds? | Understand | 4 |
| 5 | Write about the infrastructure of grid computing in detail? | Understand | 3 |
| 6 | Explain any six benefits of software as service in cloud computing. | Understand | 3 |
| 7 | Why is cloud called as eco system? Justify. | Remember | 4 |
| 8 | Difference between process virtual machines, Native Vmms. | Remember | 4 |
| 9 | Explain the importance of Virtualization. | Remember | 3 |
| 10 | "Service oriented architecture as step forward Cloud Computing", Explain? | Understand | 4 |
| 11 | Discuss inter-cloud resource management. | Remember | 3 |

| 12 | Discuss in detail about global exchange of cloud resources. | Understand | 4 |
|---|---|--|--|
| 13 | Mention some Large Cloud Providers and Databases. | Understand | 4 |
| 14 | "As a Infrastructure as a Service" What are the resources that are provided by it? | Understand | 4 |
| 15 | Write about different levels of Virtualization implementation. | Understand | 4 |
| 16 | Explain the Operating System level virtualization? List the pros and cons of Operating System level virtualization. | Understand | 5 |
| 17 | Explain in details the tools and mechanisms for Virtualization. | Remember | 5 |
| 18 | Explain the different types of virtualization in detail. | Understand | 5 |
| 19 | Write about virtualization of central processing unit, memory and i/o devices. | Understand | 5 |
| 20 | Explain the virtualization of multi core processor? | Remember | 6 |
| | Part – C (Problem Solving And Critical Thinking) | | |
| 1 | Explain cloud computing architecture and cloud components? | Understand | 4 |
| 2 | Explain the nist reference architecture of cloud computing in detail? | Remember | 4 |
| 3 | Explain risk from multi tenancy environment. how ids can be used in environment? | Understand | 4 |
| 4 | Explain about enriching the integration of service paradigm for cloud era. | Remember | 4 |
| 5 | Explain information and data model for virtual machine. | Understand | 4 |
| 6 | How does cloud architecture overcome the difficulties faced by traditional architecture? what are the three differences that separate out cloud architecture from the tradition one? | Remember | 4 |
| 7 | Explain the infrastructure of grid computing in detail? | Remember | 4 |
| 8 | Explain Multithreading Model in detail? | Understand | 5 |
| 9 | Mention some open source cloud computing platform databases? | D 1 | |
| | | Remember | 5 |
| 10 | Explain the difference between cloud and traditional datacenters? | Remember Understand | 5 6 |
| | | Understand | 6 |
| | Explain the difference between cloud and traditional datacenters? UNIT-III ER PROCESS COMMUNICATION: INFRA STRUCTURE AS SERVICE AND SOFTWARE SERVICE(PAAS/SAAS) | Understand | 6 |
| INTE | Explain the difference between cloud and traditional datacenters? UNIT-III ER PROCESS COMMUNICATION: INFRA STRUCTURE AS SERVICE AND SOFTWARE SERVICE(PAAS/SAAS) Part - A (Short Answer Questions) Define Fault Tolerance. | Understand | 6 TFORM |
| INTE 1 2 | Explain the difference between cloud and traditional datacenters? UNIT-III ER PROCESS COMMUNICATION: INFRA STRUCTURE AS SERVICE AND SOFTWARE SERVICE(PAAS/SAAS) Part - A (Short Answer Questions) Define Fault Tolerance. What is Load Balancing? | Understand (IAAS) & PLA Remember Understand | 6 IFORM 5 5 |
| INTE 1 2 3 | Explain the difference between cloud and traditional datacenters? UNIT-III CR PROCESS COMMUNICATION: INFRA STRUCTURE AS SERVICE AND SOFTWARE SERVICE(PAAS/SAAS) Part - A (Short Answer Questions) Define Fault Tolerance. What is Load Balancing? List public cloud and infrastructure services. | Understand (IAAS) & PLA Remember Understand Understand | 6 IFORM 5 5 5 |
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| INTE 1 2 3 4 5 6 | Explain the difference between cloud and traditional datacenters? UNIT-III CR PROCESS COMMUNICATION: INFRA STRUCTURE AS SERVICE (PAAS/SAAS) AND SOFTWARE SERVICE(PAAS/SAAS) Part - A (Short Answer Questions) Define Fault Tolerance. What is Load Balancing? List public cloud and infrastructure services. Write about Google App Engine. Sketch the Aneka Architecture. Draw a neat diagram for Open Nebula High Level Architecture. | Understand (IAAS) & PLA Remember Understand Understand Understand Understand Understand | 6 IFORM 5 5 5 5 5 5 5 5 5 |
| INTE 1 2 3 4 5 6 7 8 | Explain the difference between cloud and traditional datacenters? UNIT-III CR PROCESS COMMUNICATION: INFRA STRUCTURE AS SERVICE (AND SOFTWARE SERVICE(PAAS/SAAS) Part - A (Short Answer Questions) Define Fault Tolerance. What is Load Balancing? List public cloud and infrastructure services. Write about Google App Engine. Sketch the Aneka Architecture. Draw a neat diagram for Open Nebula High Level Architecture. Write about Virtual machine life cycle. List private cloud and infrastructure services. | Understand (IAAS) & PLA Remember Understand Understand Understand Understand Understand Remember Remember | 6 IFORM 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| INTE 1 2 3 4 5 6 7 8 9 | Explain the difference between cloud and traditional datacenters? UNIT-III ER PROCESS COMMUNICATION: INFRA STRUCTURE AS SERVICE AND SOFTWARE SERVICE(PAAS/SAAS) Part - A (Short Answer Questions) Define Fault Tolerance. What is Load Balancing? List public cloud and infrastructure services. Write about Google App Engine. Sketch the Aneka Architecture. Draw a neat diagram for Open Nebula High Level Architecture. Write about Virtual machine life cycle. List private cloud and infrastructure services. Write About Microsoft Windows Azure. | Understand (IAAS) & PLA Remember Understand Understand Understand Understand Understand Remember Remember Remember Understand | 6 TFORM 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
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| INTE 1 2 3 4 5 6 7 8 9 10 | Explain the difference between cloud and traditional datacenters? UNIT-III CR PROCESS COMMUNICATION: INFRA STRUCTURE AS SERVICE (AND SOFTWARE SERVICE(PAAS/SAAS) Part - A (Short Answer Questions) Define Fault Tolerance. What is Load Balancing? List public cloud and infrastructure services. Write about Google App Engine. Sketch the Aneka Architecture. Draw a neat diagram for Open Nebula High Level Architecture. Write about Virtual machine life cycle. List private cloud and infrastructure services. Write About Microsoft Windows Azure. Define On Demand Service. | Understand (IAAS) & PLA Remember Understand Understand Understand Understand Understand Remember Remember Understand Remember | 6 FFORM 5 5 5 5 5 5 5 5 5 |

| 14 | Define Hardware Virtualization. | Understand | 6 |
|----|---|------------------------|--------|
| 15 | Write about Storage Virtualization. | Remember | 6 |
| 16 | Define Virtual machine Cloning. | Remember | 6 |
| 17 | Define Runtime Support Service. | Understand | 6 |
| 18 | Write about Software Stack. | Remember | 6 |
| 19 | Define Dynamic Resource Deployment. | Understand | 6 |
| 20 | Write about Provisioning of Compute resources. | Remember | 6 |
| | Part – B (Long Answer Questions) | | |
| 1 | Explain the layered cloud architecture development. | Understand | 5 |
| 2 | What is Aneka Cloud Platform? | Remember | 5 |
| 3 | Explain the technologies for data security in cloud computing. | Remember | 6 |
| 4 | Implement in detail about hybrid cloud. | Understand | 6 |
| 5 | Explain the importance of quality and security in clouds. | Remember | б |
| 6 | Explain in detail about hybrid cloud implementation. | Understand | 6 |
| 7 | Draw a neat sketch for architectural overview. | Understand | 6 |
| 8 | Explain about Aneka resource provisioning service. | Remember | 6 |
| 9 | Draw a neat a of autonomic cloud bridging. | Understand | 6 |
| 10 | List out the importance of quality and security in cloud. | Remember | 6 |
| | | | |
| 11 | Explain the cloud architecture with suitable block diagram? | Understand | 6 |
| 12 | Write about layered cloud architecture development. | Remember | 6 |
| 13 | Explain the various design challenges for effective cloud computing environment. | Understand | 6 |
| 14 | Explain the cloud service tasks and trends. Explain the different methods of resource provisioning and platform deployment in detail with a neat diagram. | Understand | 6 |
| 15 | Explain the provisioning of storage resources in detail. | Understand | 6 |
| 16 | What is Quality Of Service monitoring in a cloud computing? Enlist and explain different issues in inter-cloud environments. | Remember | 5 |
| 17 | What is the use of "Eucalyptus" in cloud computing? | Remember | 6 |
| 18 | Mention some open source cloud computing platform databases. Mention some large cloud providers and databases. | Understand Remember | 6 6 |
| 19 | "As A Infrastructure As A Service" What are the resources that are provided | Understand | 6 |
| 20 | by it? | Onderstand | 0 |
| | Part – C (Problem Solving and Critical Thinking) | | |
| 1 | Explain in detail about Virtual machine provisioning process. | Understand | 6 |
| 2 | Sketch a neat diagram for a deployment scenario network. | Remember | 6 |
| 3 | Explain Virtual machine life cycle and Virtual machine monitoring. | Understand | 6 |
| 4 | Write about infrastructure enabling technology. | Remember | 6 |
| 5 | Explain in detail about automatic and selection process. | Understand | 6 |
| | | | |
| 6 | List out the technologies for data security in cloud computing. | Remember | 6 |
| 7 | Explain about scheduling techniques for advance reservation of capacity. | Understand | 6 |

| 8 | Explain the technologies for data security in cloud computing. | Remember | 6 |
|----|---|------------|----|
| 9 | Explain the cloud architecture with suitable block diagram. | Understand | 6 |
| 10 | Write about layered cloud architecture development. | Remember | 6 |
| | UNIT-IV | • | |
| | MONITORING, MANAGEMENT AND | | |
| | Part – A (Short Answer Questions) | | |
| 1 | Write about federation. | Remember | 7 |
| 2 | Define Isolation. | Understand | 7 |
| 3 | Write about the virtual execution environment manager. | Remember | 7 |
| 4 | Sketch a neat diagram for host of applications on servers. | Remember | 7 |
| 5 | Define federation scenarios. | Understand | 7 |
| 6 | Draw a flow chart of the service-level agreement management in cloud. | Remember | 7 |
| 7 | Write about Elasticity. | Understand | 7 |
| 8 | Define Grid and Cloud. | Remember | 7 |
| 9 | Write about the virtual execution environment host. | Understand | 8 |
| 10 | List out the technical benefits of cloud computing. | Understand | 7 |
| 11 | Define Big table. | Remember | 8 |
| 12 | Write about Hadoop Distributed File System. | Understand | 8 |
| 13 | Define the Google's distributed lock service. | Understand | 8 |
| 14 | Write about Sap System. | Remember | 7 |
| 15 | Write about Federation. | Understand | 7 |
| 16 | Define Google File System | Remember | 7 |
| 17 | Write about Block Replication. | Remember | 7 |
| 18 | List The characteristics of Hadoop Distributed File System. | Understand | 8 |
| 19 | Write about control flow of Map reduce. | Understand | 8 |
| 20 | Define Heart Beat in Hadoop. | Remember | 8 |
| | Part – B (Long Answer Questions) | | |
| 1 | Write about sap systems in detail. | Remember | 7 |
| 2 | List out the business benefits of cloud computing. | Understand | 8 |
| 3 | Explain in detail Google's distributed lock service. | Remember | 7 |
| 4 | Write about service-level agreement management in cloud. | Understand | 8 |
| 5 | Explain about security considerations. | Remember | 9 |
| 6 | Draw a neat sketch for automated policy based management with brief | Understand | 9 |
| 7 | explanation. Write about High-performance computing systems and High-performance | Domonthan | , |
| / | computing on clouds. | Remember | 10 |
| 8 | List out the technical benefits of cloud computing. | Understand | 7 |
| 9 | Explain in detail about decouple your components. | Remember | 8 |
| 10 | List out the basic principles of cloud computing. | Understand | 9 |
| 11 | Write about Amazon Web Services of Cloud. | Understand | 10 |
| 12 | Explain the dataflow and control flow of Map reduce. | Remember | 7 |
| 13 | Explain the architecture of Map reduce in Hadoop. | Understand | 8 |
| 13 | Explain a user view of Google app engine with suitable block schematic. | Remember | 7 |
| 14 | Explain a user view of Google app engine with suitable block schemate. | Understand | / |

| 16 | Explain the programming structure of Amazon ec2. | Remember | 9 |
|----------|--|------------|----|
| 17 | Explain the architecture of Amazon ec2. | Understand | 9 |
| 18 | Explain the Microsoft azure programming support. | Understand | 10 |
| 19 | Discuss the architecture and components of open nebula. | Remember | 7 |
| 20 | Explain the architecture of open stack system. | Understand | 10 |
| | Part – C (Problem Solving And Critical Thinking) | | |
| 1 | List out the basic principles of cloud computing. | Remember | 9 |
| 2 | Sketch a neat diagram for reservoir. | Understand | 10 |
| 3 | Explain about security considerations. | Remember | 10 |
| 4 | Write about automated policy based management. | Understand | 9 |
| 5 | Explain about traditional approaches to service-level agreement management. | Remember | 10 |
| 6 | Write about Amazon web services cloud | Understand | 9 |
| 7 | Draw a flow chart of the service-level agreement management in cloud | Understand | 9 |
| 8 | Write about elasticity. | Remember | 10 |
| 9 | Discuss the cloud software environment of eucalyptus in detail. | Remember | 10 |
| 10 | Mention what is hypervisor in cloud computing and their types. | Understand | 9 |
| | UNIT-V | | |
| | GOVERNANCE AND CASE STUDIES Part - A (Short Answer Questions) | | |
| 1 | List out the strengths of information cards. | Understand | 11 |
| 2 | Draw a neat sketch of perception of quality. | Remember | 11 |
| 3 | Distinguish direct versus indirect distribution. | Remember | 11 |
| 4 | - | Remember | 11 |
| 4 5 | Write about cloud service life cycle. List out the weakness of information cards. | Remember | 11 |
| 6 | Define service strategy. | Understand | 11 |
| 7 | | Remember | 11 |
| | Write about acceptance testing. | Remember | 11 |
| 8 | What is digital entity? | Understand | 11 |
| 9 | Write about service design. | | 12 |
| 10 | What is data security? | Remember | 12 |
| 11 | What are the security challenges in cloud computing? | Remember | 11 |
| 12 | Define security governance. | Understand | 12 |
| 13 | Explain the security awareness in cloud. | Remember | 12 |
| 14 | Define third party risk management. | Understand | 12 |
| 15 | What are the layers in security architecture design? | Remember | 12 |
| 16 | Define virtual machine security. | Remember | 11 |
| 17 | Explain change management. | Remember | 11 |
| 18 | Define security images. | Remember | 11 |
| | What is meant by vulnerability assessment? | Remember | 11 |
| 19 | | | |
| 19 20 | Define data shredding technique. | Understand | 11 |

| 1 | Explain about a framework to comprehend the competitive environment. | Understand | 11 |
|----|--|------------|----|
| 2 | Explain about digital identity and data security. | Understand | 12 |
| 3 | Write about quality of service and value composition. | Understand | 12 |
| 4 | Explain about common change management models (cmmm). | Remember | 11 |
| 5 | List out the cloud contracting models. | Remember | 11 |
| 6 | List out the data privacy and security issues. | Understand | 11 |
| 7 | Explain about management maturity model. | Remember | 11 |
| 8 | Write about acceptance testing. | Understand | 12 |
| 9 | Explain the security challenges in cloud computing in detail. | Understand | 12 |
| 10 | Write about the security architecture in detail. | Understand | 12 |
| 11 | Explain the following a) Security governance b) security monitoring | Remember | 12 |
| 12 | Write about the secure software development life cycle. | Remember | 12 |
| 13 | Explain in detail about software-as-a-service security. | Remember | 12 |
| 14 | Write about application security in detail. | Understand | 11 |
| 15 | Explain the data security and virtual machine security in detail. | Remember | 11 |
| 16 | Write about identity management and access control in detail. | Understand | 11 |
| 17 | Explain the two fundamental functions, identity management and access Control, which are required for secure cloud computing. | Remember | 11 |
| 18 | Explain the following | Understand | |
| | a) Autonomic security | | 12 |
| | b) Risk management | | |
| 19 | What are the measures included in guest hardening techniques? | Understand | 11 |
| 20 | How is intrusion detection implemented under Software as a service model? | Understand | 11 |
| | Part – C (Problem Solving And Critical Thinking) | | |
| 1 | Write about a need for cloud mash ups. | Understand | 11 |
| 2 | Explain about cloud contracting models. | Understand | 11 |
| 3 | Write about quality of service and value composition. | | 12 |
| 4 | Explain about common change management models. | Remember | 12 |
| 5 | Write about data security and virtual machine security in detail. | Understand | 12 |
| 6 | Explain about a framework to comprehend the competitive environment. | Understand | 12 |
| 7 | Define distributed denial-of-service attack. | Remember | 12 |
| 8 | Which security mechanism provides an effective control for data Confidentiality and integrity? | Understand | 12 |
| 9 | Define security governance. | Remember | 12 |
| 10 | Explain the layers in security architecture design. | Remember | 12 |

Prepared By:

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