CT- arangment -8

Names Anjon nous Antika mang sa liti alan ID % IT- 18018.

Question no-1

al what to Routing?

solutions

When a derive where multiple posters to reach a depti mation It duays selects one path by professions of over Otheras. This relection process is terromed as routing

by what so defibrant between unicared mouthing and Broadcost ?

solutions of a roll - flowed = horsered of trouspeace

Unicard mouthing

1) moral of the trouble on the intermet and

Por son with specified doubtination.

- 1) usticost data once the entermat to called noticost contrag
- 111) It is the Amplet from of montry because the

Orosad anothing

- P) By default, the broadcast packets are not recited and formwarded by the mounteres on any metwork.
- 12) Roules arreate broad caret domains.
- ii) A broad and massage is destined to all notworks
- M) A mouters arealers a data packet and there oceans

Danash be unseast mouthing protocols and multiques routing protocols brosefly q

Contration o

ungeast racelling protocolo. mans boarin as outrained

There are two kinds of mouting protects available to moute unicard packets:

1) Destance rectors Rowling protocols.

brotance vectors as simple societing protocol which takes recuting decirition on the numbers of high between source and destination. A route with less numbers of hops is considered as the best route

2) Link state Routing protocal:
1900 state protocal 920 slight complicated protol the

Protonce rectors. It takes gotto account the state of limits of all the mouter on a noticoark. This technique. Thelps moutes build a Common p grouph of the entirez metwork.

Muldreant Routing protocols

4

unicast souting protocolo use groups while multicost routing protocals use toest, i.e. spanning trees to avoid Joops. The optional trees to called should opporting trees.

protocol endepondent multicard so commonly used moul.

It has two flavores

- 1 PIM Dense mades The mode uses source based the threes. It is used in dense environment usuch as LAN
- m pin spones mode: The mode was whomsed traces. It is used an sponese environment such as wan.

d) worte down the mouthing algorithms?

20 obligations

The mouting algorithms are as follows:

Floating 813 view elegents see closestory primore

Flooding es is implest method packet formwarding.

Whom a packet es received, the mouthes send

It to all the enter-laces except the one on

which it was received two creates too much

bursden on the notwork and lotes of

deplicate packets wardering en the network

deplicate packets wardering en the network

Teml to Line (TTL) Carn be used to avoid

Time to lare (TTL) can be used to avoid somfinite looping at packolo. There exists another approach for Ploading, which is Called solveing flooding to reduce to overhu

on the notwork. In the mood method, the router does not Plood and on all the orderstaces but releatine ones.

shorolerat path

Rading decision in networks, are mostly taken on the basis of cost botween source and destination. Hop awai playo majors note lurae. Shoroterat path to a technique which uses various algorithms to decide to decide a path with months of hops.

Common shorotest path algorithms are;

- ?) Dij kstroa /o algonothm
- 11) bellman forod algorithm 111) Floyed wareshall culgorithm

Question -2

a) what to any corat poulting?

colutions

Anypart packet formanding to a mechanism where multiple horses own horse name logical address.

of gorlessnetwarshing?

rolution o

notworks under some administration are generally ocathered geographically. There may exist network requirement of connecting two different networks of come kinds. Routing between two networks to asked internetworking.

8 C) Describe turneling mechanism with it's worsk p0000009 30/14/0918 two or more name networks communication with each others, by passing intermediate networking Comploration. working processes snoted brosed look. When the data enteres from one end of turnel, It to tegged tube tagged data so them routed inside the interest mediate on transft nativersk to nativerak to reach the other and of turnel, when data extrate the turnel the top is removed and extrate the the others paret of the notwork, delivered to the others paret of the notwork, both ends seem as PP they are directly lameted and togging makes data treated through transit and togging makes data treated through transit network without any modification.

d' packet traggmentation" descrossée bootfly ?

solutions

A data pocket com home more on lesso packet langth depending upon the application. Devices on the application. Devices on the devices can hardle and what speed of packet of packet of packet of packet.

If the data packet 1820 90 loss than one equal to the 8120 Of packet the

transit network can handle, 94 90 processed neutrally. If the pocket to langers. It to broken anto remallers pivers and then throwounded Thro so called packet tragmostation.

Question-3

al what so address mesolutation protocal?

solutions graphs alstog got bee gots som to address Resolution protocal era a locu level network protocal for toanslation notwork layers addresso gorto 1801/2 layers addressoers. because the headons of the beckets and the

b) what 900 IPV4 nesolation? How 910 works?

solutions

used over IPV4 90 used ones Ethernot

The term address revolation reflects to the process of finding on address of a computer on a notwork. The address to messalved using a protocol on which a precess of information a protocol on which a precess executing on the local computers to a served process executing on a remote computers.

Process executing on a remote computers.

Are Try and Tris prevets are interoperable.

Solution: Try and Try prevets are interoperable.

because the headers of Try prevets and Try because the headers of Try prevets and Try pastets are protocols are protocols.

when were IPVa so used over a

12_ difference between IPV4 and d) what to the IPV6 9

10 Olutions

Companyolon with IPV4. On the intermet, data to transmitted for the former of notwork packets. ING specifiers a new packet format, designed to minimize packet wadoo pooceaning by nouters. Because the headers of IPva packets and IPV6 packets are significantly different, the two protocolo are not enteroperable. of what he end pointiple a

Dellocance

- 1) IPV6 horo a lot more wable addresses Compared to IPV4 agenting boot of box out
- 1) IPV6 makes the moutano's task more simple. Compared to IPY of monagen to has some
- 3) IPV6 to better method to mobile networks.

 Than IPV4.

Question-4

all what does end - to end enoughtion means

Etymology of the term 'end-to end" enany piton" organally only mount that the communication is nevers during the thousport from to senders to the reactivers. protocops are one interesperators

bl what Is end-to-end poinciple? her a lot more exoble addresses

adutions

The end-to-end pointiple to a notwork design andhod en which application- apaitse leature are kept at communication and points. The profable en contraval to features existing or entermediate points between the about and end points. In this points, like gale ways and modes pass data round only method, entermediate modes pass data round only

@ what & end-to-and solutions 9

solution 8

Gancially, end-to-end volutions are used with vandores that after comphectionsive rejection that keep pade with a business every - changing.
Introducture requirements and the changing demands of the It rectors that

2008 ourse out - 20 commoninger

d) what is the principle of and to and of cond

Solutions The fundamental notion behind the end-to-

Communicating with each other via some Communication means, the seliability obtained from that means commot be expected to be perfectly aligned with the seliability requirements of the processes.

Question - 5 . sviamos vignoso orsix/s

al what 90 the application layers southing

polutions.

Techopedia explains application layers. The application layers at the OSI tions layers for the acrest layers at the OSI model and the only one that directly and the only one that directly and when the

application layer provides many services, including application layers provides till and users access to a application layers provides till and users access to a vorsiety of a hisraed naturne & services form efficient OSI model data flace.

b) what so application layers In Dan?

Den-application layers entroduction. Application layer

10 the top most layers en OSI and TEP/IP layered

model. The layers exists en both layered models

model. The layers exists en both layered models

because of the significance, at entereacting with

because of the significance, the layers is fors

were and were applications. This layers is fors

applications which one envolved in communication

applications which one

I Is little considered application layers?

colutions

Designing software or text editors commot be Convolutional are application layers programs. On the closed, when we use a web browner, which is actually wring types text transfer protocol (HTTP) to interpret with the network. HTTP to application layers protocol.

d) what is application layers on OSI model?

the application layers on the OSI model of the cool were which means that the application layers and end users can contend of the cool demostly

with the confluence application. The application layers progressors are based on client and sources.

briefly desarribe the function of application layers in our model.

- 1. File transfers: It allows a users to access.
 refrire and manage files in a momote computer
- 2. Mail services: 8 It provides the books for email for warding and storage facilities.
- 8. Innectoral services: It provides dectosimiles database sources and occess for global information about various objects and services.

Question - 6

3) What 90 Ulant nervers networking models

This model is known as allow agreems using the alternation magneous using the alternation progression is known as a converse a allernation progression is known as a allernation progression from an application progression from an application progression known as a converse progression, noursing on the remote machine

b) what to allow - sources connection of

a Olution 3

The client-nerview Connection to established through a natural one the Porternet.

The alent server model as a come natural Computing Cornelpt also building functionally for email exchange and cueb laterbase anceso web technologies and protocals built around the allegat servers model one; has many mount - hours a point

(2) What are some exemple of albert someons application 9 months on sold profession of batters THE PERMY PROPERTY PROPERTY FIRST

colutions

Execuple of mompular applications that use the albert - server model are Email, network pointing, and the world wide up. The Olson nemora characteristic describes the replation olie of cooperating programs en an application the openion component provides a function oro recorece to one oro many cliento, which initiate requests for ouch serovices

d) Desamble sockets. briefly. colutiones The process acting as convers opens a cooket using a well-known point and weather unit some Ollento request comes, The record procusos adding as a cleant also opens a socket but Instead of waiting fine an incoming request, the cleant processes request firest, Sonrer programa Olient programe (Socket) (socret Transport byers Transport layer network layor Network layers Dota link layers Data Liona layers physical layers dry steal layer

Question - 7

al what so Damain name oxisteon?

adutions

DNS (Domain Name rypotern) es the marine green to the somplementation of domain manne regrotem operices provided in microsoft windows operating agrotem.

by what to spriple toasters proctocal? fresslow service tolom garage troppy my

solutions mail transfer protocal is used to transfer evertooning mail from one were to anothers. There took is done by means of email dient software the users is

c) and on the toursten protocol tow of halm

Colutions

The file transfer protocal 90 the most widely used protocal for file transfers over the network

PTP uses TCP/IP for communication and it coords on top part 21. FTP works on Object/across model where a client equate fall from neman and corresponds requests requested renounce back to the client.

d) what to make differed between pop and HTTP9. materiams gar a laterting has

POP

e) The part office protocol version is to a sample rectroiered protocal used by users agents to rectained mail neverse. a white the discourse of the contract

1) bobs. maoks bu too wodos

nd the most assumen made the delete mode, Po to delate the esnaels from remote services affer trey are downloaded to local moderns software regarden helps to otope the

9) The Hypero dext toooler prootocol % o the foundation of words wide.

in HTTP works on albert senses model.

office good to molecular to the design of the top Question - 8 may got bear to colony larger took

a) what to disportiony service?

Common mode the doll rommon These sorvious are conapping noone and to value Which can be variable value on fixed. This poffware agrotem helps to otore the Intermation, anguiste it, and provide voicions means of accessing of established that compile

by How does work followorking

Files more the network.

. the spaged of o

one of the receiver which garre bireth to inthusing the sharping. Eple sharping enables to obare there data with other users, were con uplead the file to a specific remains, which so accessible by all intended users.

· File tourfers:

This is an antify to copy one more fole from one computers on to multiple ecomputers anothers computers on to multiple ecomputers with help of understying network network

enable 940 were to locate ofter weres

Prof the notwork and transfer files.

Which do communication services we use of communication

sorvices. Include them

I) Email

I) Social networking

II) Internet Chal

W) Dio awajon barreds

v) remote access no mos and some

d Application reprices:

There are nothing but providing notioner based services to the users, which are auch is environs, database monaging and Belowne courses &

· Resource ahardogg

To use renounce efficient and economic Cally notwork provides en moun to oberra thoso.

Data bases

The application recovide so one of The anoto harbacotous vousion

web acrosses

It 90 used to connect to the Interne and accesses files information reprience