

Assignment No: 2B

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subject :- AI

Do A

Do P

Remark - sign

Q1 Explain PEAS Descriptors for Wumpus world

- - i) performance measure
- +100 for grabbing the goal and coming back to start.
 - 200 if the player is killed
 - 1 per action
 - 10 for using the arrow.

ii) Environment

- Empty rooms
- Room with wumpus
- Rooms neighbouring to wumpus which are smelly
- Rooms with bottomless pits
- Rooms neighbouring with bottomless pits ~~which~~
- Rooms neighbouring with bottomless pits
- Room with gold which is gallery
- Arrow to ~~start~~ the wumpus

iii) sensors comprising

- camera to get the view
- odour sensor to smell the smell the stench
- Audio sensor to listen to the screen and hump

iv) Effectors (assuming a robotic agent)

- motor to move left right
- Robot arm to grab the gold
- Robot mechanism to shoot the arrow. The wumpus world

agent has following characteristics
a) fully observable

b) Deterministic

c) Episodic

d) static

e) Discrete

f) single agent

Q1) Explain various elements of cognitive system

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cognitive computing is a new type of computing with the goal of more accurate model of how the human brain / mind senses, reasons and responds to stimulus. Generally, the term cognitive computing is used to refer to new hardware and / or software that mimic the functioning of the human brain thereby improving human ~~human~~ decision making. Cognitive computing is Adaptive user interfaces to adjust context for a particular type of audience.

Following are elements of cognitive system:

a) Interactive :- They may interact easily with users so that those users can define their needs comfortably. They may also interact with other processors, devices and @ cloud services as well as with people.

b) Adaptive :- They may be engineered to feed on dynamic data in real time. They may learn as information changes and as goals and requirements evolve. They may

- Community cloud:-

This type of cloud model allows users from the same community to share the computing infrastructure. Community can be created using salesforce platform. Prices of such cloud depend on the type of user (whether employee, organization or partner). This cloud model is secured as compared to the public cloud model.

Hybrid cloud:-

It is combination of any one deployment models mentioned above. Examples, consumers can store their individual or secret data in the public cloud for processing large amount of data. In hybrid cloud security aspects are needed to be considered while moving data from private cloud to public cloud for processing data.

Q3 Explain Digital Structure as cloud security mechanism.

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- The digital signature mechanism is means of providing data authenticity & integrity through authentication as non-repudiation
- A message is assigned a digital signature prior to transmission, which is then rendered invalid if the message experiences any subsequent unauthorized modification
- A Digital signature provides evidence that the message archived is the same ~~one~~ as the one created by its rightful sender.
- Data hashing mechanism is applied to the original message to produce the message digest
- Data hashing as asymmetrical encryption are involved in the evaluation of the digital signature which essential exists as a message digest that was encrypt by a private key and appended to the original message
- The receipt verifies the signature validity by using the corresponding public key to decrypt the digital signature encrypted hash which produce message digest.

- Identical results from two different process indicate that message maintain its integrity

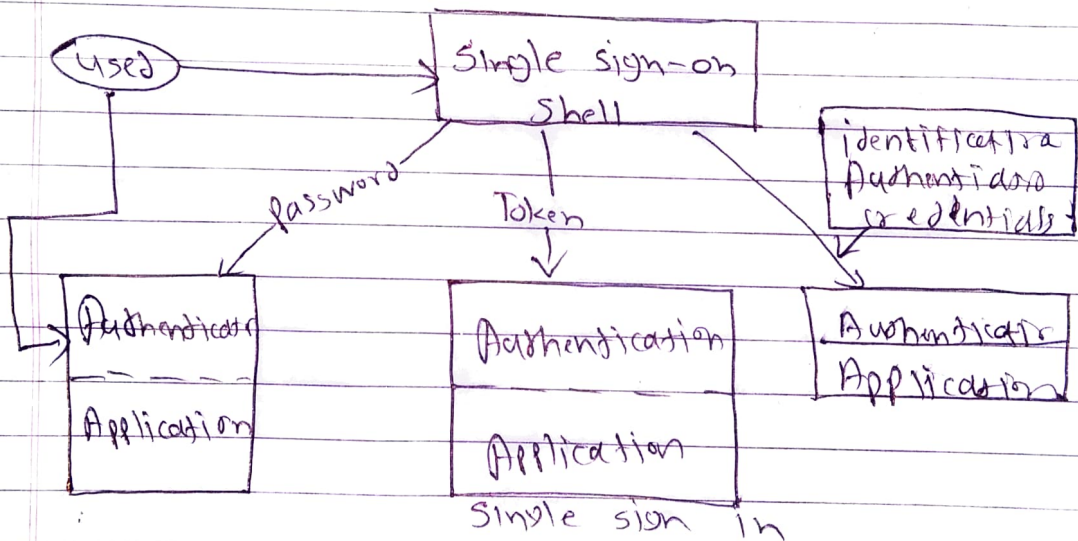
- The digital signature mechanism helps mitigate the malicious intermediary insufficient authentication and developing trust bypass security threats

Q 9.

Write a note on single sign-on

— Think of an umbrella procedure to which you login once per session. The umbrella procedure maintains your identities and authentication codes for all that different processes you access.

— When you want to access email for example instead of your completing an user and password screen, the single sign-on process passes those details to the email handler, and you are same control after the authentication step has succeeded.



The difference between these two approaches is that federated identity management involves a single identity management module that replace identification and authentication in all other system.

is Explain the following terms:-

-) a) phonology:-

- It is the study of organizing sounds systematically in an MLP (Multilayer) language processing system.

b) morphology:-

- It is a study of construction of words from primitive meaningful units.

c) lexical Analysis:-

lexical is the words and phrases in language, lexical analysis deals with the recognition and identification of structure of sentences. It divides the paragraph in sentences, phrases and words.

d) syntactic Analysis:-

- In syntactic analysis the sentences are parsed by noun words, adjective and other parts of sentences. In this phase the grammar of the sentence is analysed in order to get relationship among difficult words in sentences.

e) word sense disambiguation:-

- While using words that have more than one meaning we have to select the meaning which makes the most sense in context.