Amazon Fer instance types. (Requirements for computer insembry J. General purpose instances. provide a balance of compute, memory and networking resources. uces them for a variety of work loads * application Servers. * gaming server * Bockend serven for enterprises of small and medium data base. 2. compute optimized instance. pare ideal for computer-bond applications that benefit from high paroformance processors. a use for work tode as web, application and gaming senters, 3. Memory optimized instance. are designed to deliver fast performance for workloads that proceed large obtasers in memory. 4. Accelerated computing instance: * use hardware accelerators, or coprocessors, to perform -some funtions more efficiently than is possible in software running on CPUs. & Accelerated computing instances are ideal for Morkloads such as graphicsapplication, game Streamery and application Streaming. 5. storage optimized instances. designed for workloads that require high, sequential read and write access to large delacets on local storage work woods included distributed file systems, data ware howing applications, and high - frequency online transaction processing syst.

(10 ps) input output operates per second is ametric that measure

performace of a storage decirce.

J. on-Demand.

- * ideal for short-term, irregular klorkloads that cannot be interrupted.
- A No-upfront costs or mini contracts applys.
- * The instances run continuously until you stopthern and you pay for only the compute time you see.

a. Saving plans.

- A enables you to reduce your compute costs by committing to a consistent amount of compute usage for a 1-year or 3-year for soving of upto 66% over on- Demand patt.
- 3. Reserved Instances.
- A are billing discourt applied to use of on-Demand Instance inyer
- * you can purchase standard Reserved and Convertible Reserved.

 Instence for a 1-year or 3-year terms and scheduled reserved.

 instances for a 1-year term.
- A you realise greater cost sourng with the 3-year option.

4. Spot Instances:

3

- *ideal for workloads with flexible stort and end time, or that can with stand interruptions.
- offer you cost sovergs at up to 90% off of on Demand prices.
- *If Amazon Fiz capacity is available, spot Instances lanches or not:

5. Declicated Hosts:

- x are physical servers with Amoxun tez instance capacity that is fully dedicated to your use.
 - x pedicaled Hosts are more expensiver
 - I use your existing per-socker per-core, per-um sof wore likeds.

Scalability :-& involved beginning with only the resources you need and designing your architecture to automatically respond to Changing demand by scaling out or in.

the a rescut, you pay for only the resources you use.

or the Able senieter that provider this functionality for Amazon Ic 2 instances is Amazon Tes Auto Scaling.

Amazon Es-Acuto scaling.

a try to access a website that woldn't road and frequenty trinedant, * Armaxon Ea Auto scaling enables you to automatically add of remove - Amazon Eaz instance in responce to changing applicating down of

s bymaic scalus responds to changing demand

Lo predictive scale automitically schedule the right number of amazon the institute based on preducto demost

to scale faster, you can dynamic Scalin and prediction scaling togeth

* Mini No of Amazon tez instance atone.

* if you do not sprcify the desired number Amazon ter metance In an Auto Scaling group, the desired capacity defaults to your mini. eapacity

* Max. capacity.

Elastic Load Balancing

of is the Aws services that automatically distributes incoming application troffic across multiple rescource, such as Anamon to install

A load Balancer acts as a single point of contact for out incoming web traffic to your Auto scaling group.

A these request route to the load balance frist, distribus the Workload across the mouthple Postance so that no single Postace has no carry bulk of A-At though flastic Load Balancy and Amaxin Ec, Auto Scaly are