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#3:	Monolithics us Microservices : antibonóm 184
bas for	Microservice and its Patterns (Introduction) and
	Decomposition Pattern de la company
	the state of the s
\rightarrow	Monolithics vs microservices
i)	monolithics is also called Legacy application
ino mi di	(when all functionalities are present in one
	application) and any green
	# Disadvantages:
	a) Overload IDE (large size application)
	b) Scaling is hard
	c) Tight coupled application
	(9f we change even one line, then it can
	affect many functionality and need to test
	whole application), also need to deploy
	whole application.
	d) Difficult debugging
•	To overcome all the disadvantages of monolitic
	we have introduced microservices.
	> Product Bill order
	(Legacy) Login account Payment
	(Microservices) #learnthesmarterway

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A	a)	managing the components becomes easy for develope
1	6)	Managing the components becomes easy for developed Scalability is easy
*		source to the own service or other screwe
1	**	Interview Question:
1	7	Advantage and Disadvantage of microservice
1		£2 52 £2
*	#	Disadvantages:
1	\rightarrow	Properly decompose monolithic system, there should not be much dependency of components
1	turn	should not be much dependency of components
-		to each other
-	→	System should not be tightly coupled
		Didagos ()
	1.0	267 600 600
-	aro	nabour porroductions corder aordo invama (
		e.g. If product has high dependency on order
-		service, then if we want to scale product
-		then order should also be scaled.
4		service 1 service s2 : noi service s3 0
_	->	break break
7		If there are some code changes in service s3, and
7		it will go live. Now response of S3 changed and it
3		is used by s2 (previously response), then s2 will
9		break. It st uses s2, then st also breaks.
9		b) Decempose by subdernain
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alor ->	monitoring each components is difficult Also
	debugging is diffult -> e.g. the code breaks
	due to its own service or other service.
\rightarrow	Transaction Management / Consistenty of data
30	on Database of numbered bro spot nous
	S1 S2 S3
\rightarrow	Query > separation books of the
949	+ Propoly decompose, mar Aladic Spilon +
zhanos	Transaction management
	to each other
->	Phases of Microservices: Jan blooms motions
a)	Decomposition Decompose by business Database capability
ь)	
c)	Communication Decompose by subdomain.
4)	Integration pob dois soil busong it ps
(e)	Deployment son son It must some
	then order should also be scaled.
a)	Decomposition: Micro Service
ss, and	
ti bris b	(How much small?)
Hicu	Decomposition Pattern
2 (9)	
b)	Decompose by subdomain
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b)	Database: do we require separate DB for
	each service or a single DB to maintain all services
•	marter (common DB)
• →	Database per service un soro
· Shirth	Shared database
	- Account management & Busine
	Communication:
	51 S2 S3
• →	API communication
-	ovial Eventsonizued no bosod our 2001/1802 #
	# Challenge: Good knowledge of busines
	Integration: Microservice needs to be integrated
	with UI or other applications.
->	API gateway or other patterns
	Driven Design
e)	Deployment and Monitoring:
ا ا	lordumanagement - to lan hav
→	So all these phases/patterns makes one nucroservice
Z Z D J V Z	From each phase we need to decide one pattern
	based on requirements aimed
9 .0	The august 1
•	transfer of
	Then after the phases requirements / patterns were decided, then arread implementation starts

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a)	Decomposition: orregar ou ob : 220 dated (d
(i and	Decompose by business capability:
	eg. Online order application
	-> order management > all are
	-> Product management nucroservices
	-> Account management > Business
	- Login : morte in functionality
	-> Billing
	→ Payment
	northwart warman 19A E
	# Services are based on business functionality
43	# Challenge: Good knowledge of business
6 stors	How sal of absence of tractions of a mother partition to be interested to be interested.
	with UI or other oppurations
ii)	Decompose by Subdomain (DDD)/Domain
-12	Driven Design
	Domain: pertration bus trongalas (s
	OrderManagement - Jan have
VENZON	see so reston imetting restons multiple
anoth	og sno stisst of been our sent dies more
	Domain Forward & books
13 Cu - 200	
2	Les morations and louring Reverse Services
	payment

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