

# PLANNING GUIDE : ON PREM TO MODERNIZATION

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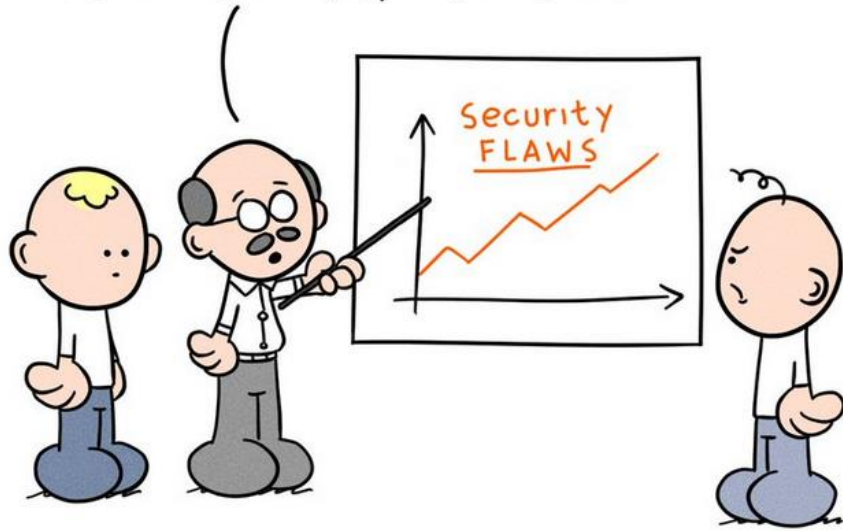
# PRAJAKTA TENDULKAR

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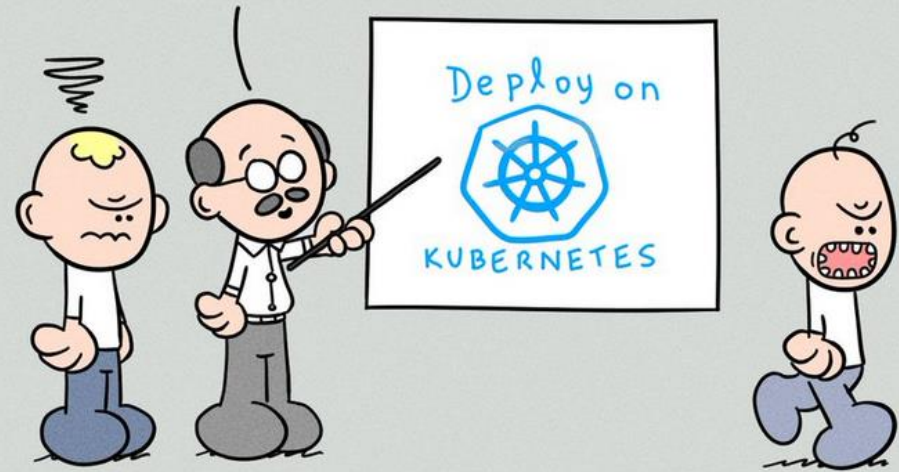
- Working with IBM Software labs and has been with IBM for past 12 years.
- Has worked on testing diversified On-prem and Off-prem products.
- Has extensive hands on expertise in UNIX Administration , Networking , Cloud domain.

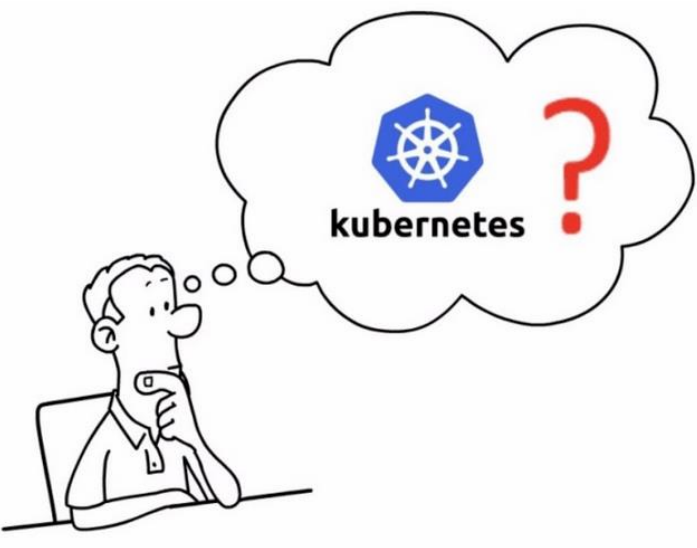


As you can see, our software  
has some security flaws...



...I did a search on Google  
and realized we must use  
containers to address these flaws.





**2016** : We must adopt microservices to solve problem with monolithic



**2018** : We must adopt docker to solve problems with microservices



**2020** : We must adopt Kubernetes to solve problems to Docker



# AGENDA

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- Why containerize
- UseCase : On Prem deployment of Book Store application
- Planning the transformation to modernization
- Revisit UseCase for modernization.

# WHY CONTAINERIZE ?

- 
- Improves the application life cycle Management using Continuous integration and Continuous Delivery Model( DevOps )
  - To eliminate the dependency of the application on the underlying OS and have them integrated well with each other
  - Increases the portability and scalability of the application.
  - Less overhead
  - Better application development.

# USECASE: BOOKSTORE APPLICATION

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I own an online retail business which is currently deployed on backend server and have different applications running on different VMs. But during the peak hours my application at times is not able to handle the load of incoming requirements.

How can I improve the infrastructure?

- Buy more resources and scale up the Infrastructure is what I am aware of and best at.
- But my online search results says “Move to docker and Kubernetes” .



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❖ *Own your Architecture*

❖ *How is the Application currently being deployed?*

❖ *What Problems are you trying to solve using Containers?*

- Deployment of the application
- Scalability
- Portability
- Frequent updates





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❖ *Access your application modernization portfolio*


❖ *Select Application Modernization approach*


- *Lift and Shift*
- *Refactor the application*
- *Containerize the monolithic*
- *Expose on-premises assets with APIs*




Recommendations














Export  Upload options 


Source environment  
IBM WebSphere Application Server



Profile  
AppSrv01   
Version: 9.0.0.9

Preferred migration  
Liberty on Private Cloud 

 Search items  

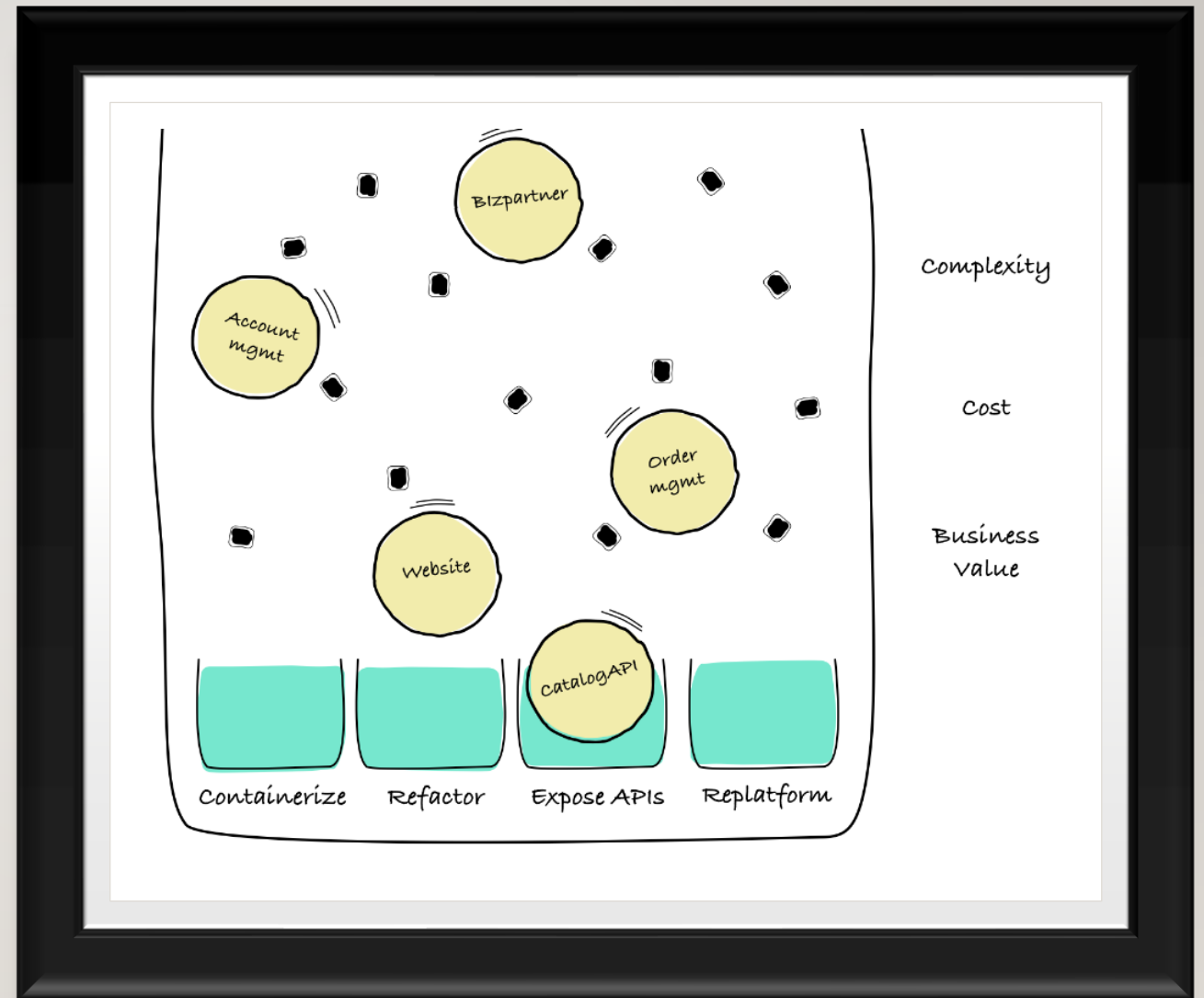
Application		Tech match	Dependencies	Issues	Est. dev cost in days	
 DefaultApplication.ear	Complex 	85%	3	 4  1  5	14	<a href="#">Migration plan</a>
ivtApp.ear	Moderate 	100%	2	 2  1  3	3	<a href="#">Migration plan</a>
query.ear	Moderate 	100%	2	 2  1  3	3	<a href="#">Migration plan</a>

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❖ *Classify your application using modernization results*



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# **DEMO**

## CONTAINERIZING ON-PREM BOOK STORE APPLICATION

# STAY CONNECTED ....

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