Innofactor Azure Kubernetes Service (AKS) Kickstarter

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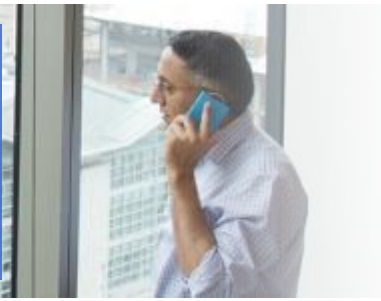
AKS is a Cloud-Era production management tool that combines the flexibility and cloud native approach of Kubernetes, with the power and potential of Microsoft Azure



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Challenges

As the rise of microservices continues the value and role of Kubernetes also evolves. Getting started with Azure Kubernetes Service may seem daunting to new users, but the benefits outweigh the initial time investment.

The AKS Kickstarter aims to help customers wanting to start using AKS by establishing some governance and taking care of security. This allows the customer to focus on learning the technology and build the skillset needed to operate a cloud-native container environment.

THE SHIFT TO CONTAINERS

OLD WORLD	NEW WORLD
Set ways to work	Better portability
Hard to scale fast	More scalable
Difficult to segment resources	Smart use of resources
Slow time to market	Faster time to market
	More flexibility

Ideal Solution

- Reducing resource waste/cost

  Many companies have resources that are only used in specific timeslots or in periods of the year. Automate the deployment/removal of these resources by building on AKS.

- Isolate and reuse

  In most deployments there are parts that are similar and the same as other deployments. By building with containers, you can isolate the individual technical structures and reuse them across your environment.

- Scalable and modular

  Since containers are inherently lightweight, they can be created and destroyed in a matter of seconds. This enables large companies to scale instantly in times of high traffic.

Desired Outcomes

For Microsoft

- Increase customer Azure consumption
- Increase technical level and understanding of customer
- Reduce OnPrem footprint

For Customers

- Shorter time to market
- More stability in operations
- Less outage with high traffic
- Competitive digital advantage
- Reuse your code
- Reuse your infrastructure

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Development and operations is moving toward Micro. If a service can be broken down into many components, it should be. Components form their own containers and save time in future development and operations.

Reduce manual work

- Make the development of new services faster by containerizing the standard components of your solution.
- Deploy and reuse the same containers on in multiple parts of your environment.

Deploy best practice

- Get security and governance best practices with Innofactor AKS Kickstarter.
- Leverage Innofactors senior Cloud DevOps experts to avoid risk and design flaws.

Implement tested services

- Innofactor has implemented AKS with many customers and knows what works.
- Gain firsthand insight into what tools and services that should picked/prioritized/avoided.

Return on investment

- Gain operational capacity by automating tasks.
- Reduce cost of unused environment
- Reduce downtime by autoscaling

RStudio integration with Kubernetes at University of Tromsø | UiT Managed Kubernetes Cluster Deployment as a Service Per User on-demand deployment of RStudio Custom Azure Active Directory integration with automatic login into RStudio NetApp Storage integration with RStudio NetApp Storage network integration with Kubernetes Cluster. Roy Dragseth, seksjonsleder, UiT Norges arktiske universitet

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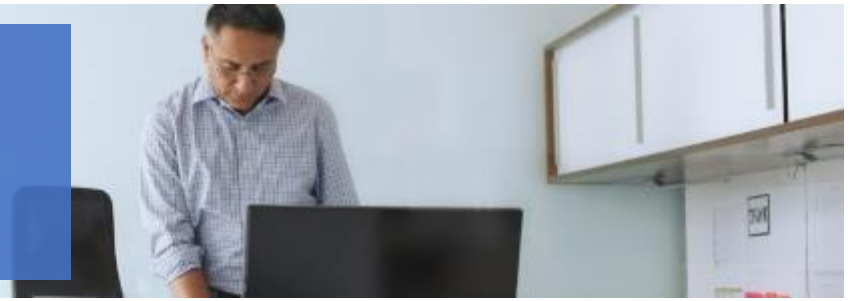

The express route to shifting your organization towards container technology.

Solution Alignment

UIT AKS

Production ready Kubernetes cluster as foundation

- Cost effective, efficient, standardized, optimized Dev & Ops Insight and visibility through dashboards
- Continuous monitoring
- **Azure Active Directory** integration
- Minimal vendor lock-in
- Scalable

Roy Dragseth, seksjonsleder, UiT Norges arktiske universitet

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