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Why Your Business Needs Managed Kubernetes on Microsoft Azure

MEET KUBERNETES

Kubernetes has become the fastest growing container technology due to its offerings and ease to use. Kubernetes has built a great open source community around it. Around the world, many CIO's and technologists have adopted to use Kubernetes and it is expected to evolve in 2019.

As companies move to the cloud, they will find that they have some needs where a PaaS or IaaS works best, and others where containers (some call this CaaS) will be more suited.

In case you want dive deeper into Kubernetes, material prepared by our partner Microsoft will be extremely helpful! Follow this link

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BTT CLOUD MANAGED KUBERNETES

To gain all the benefits of the cloud, companies are moving to DevOps and Cloud Native development. As they adopt DevOps they start to build applications as independent components using microservices running in containers. Now, instead of a single code base that is updated every six months, updates are made on an as-needed basis and can number in the 100s, if not 1000s, a day.

To make this work takes infrastructure and automation. Forget about infrastructure complexities. With BTT Cloud managed Kubernetes services you can manage your own Kubernetes orchestrator with 24/7 engineering support.

AUTOMATION AS A SERVICE

Automation is the abstraction of complexity. BTT Cloud DevOps team provides DevOps as a Service to companies seeking to optimize their development assembly lines. We provide an easy, repeatable way to deliver and deploy software safely with Docker container templates and other integrated open source toolsets.

By combining these elements we can provide a full service for your development needs to reduce the costs associated with infrastructure and development.

DEVELOPMENT EFFICIENCY AND FREEDOM

Developers no longer need to be at odds with engineers. A developer can create, test, and build an app all in a container from prepared templates. Then they simply hand the container over to the engineering staff or container management platform. The engineer or container management service just needs to know what network and storage requirements the container(s) need. They really don't need much knowledge about the container's function – just that it runs.

DEVOPS MEETS CONTAINERS

50%
of organisations have implemented DevOps
Source: Forbes

42%
of CEOs have begun digital business transformation
Source: Gartner

40%
Increase in Docker adoption
Source: DataDog

48%
of companies with more than 5000 employees use Kubernetes
Source: Portworx

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BUSINESS VALUE

SPEED TO MARKET

This allows increased speed to market, and it lowers engineering costs by bypassing the server-level engineering normally needed to launch applications.

COST AND RESOURCE SAVING

From our practice, applications reengineered to properly run in Kubernetes require few times less resources both computing and developers' time

BETTER SECURITY

Security-by-design is integral part of container technology

PORTABILITY OF SOLUTION

It gets much easier to move your solution between local development machines to staging and production

SEGREGATION OF DUTIES

Once they are set up and properly configured, you can expect your developers to focus only on development in secure and scalable environment managed by BTT Cloud DevOps team

TECHNOLOGY BENEFITS

ALL IN ONE CONTAINER MANAGEMENT

Kubernetes clusters can automatically handle networking, storage, autoscaling, logs, alerting, etc. for all your containers

NO VIRTUALIZATION OVERHEAD

Applications inside a container have direct access to your underlying server hardware without the overhead of virtualization.

ACTIVE COMMUNITY SUPPORT

1,000+ community contributors and 34,000 commits – five times that of nearest rival Mesos.
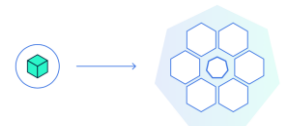
RUN ANY LINUX APPLICATION

It is a one-tier container application system. Any Linux application can be containerized and run directly on Kubernetes.
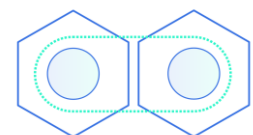
BTT CLOUD LEADING THE ADOPTION

CREATE KUBERNETES CLUSTER

DEPLOY AN APP

EXPOSE TO PUBLIC

SCALE UP YOUR APP

UPDATE YOUR APP

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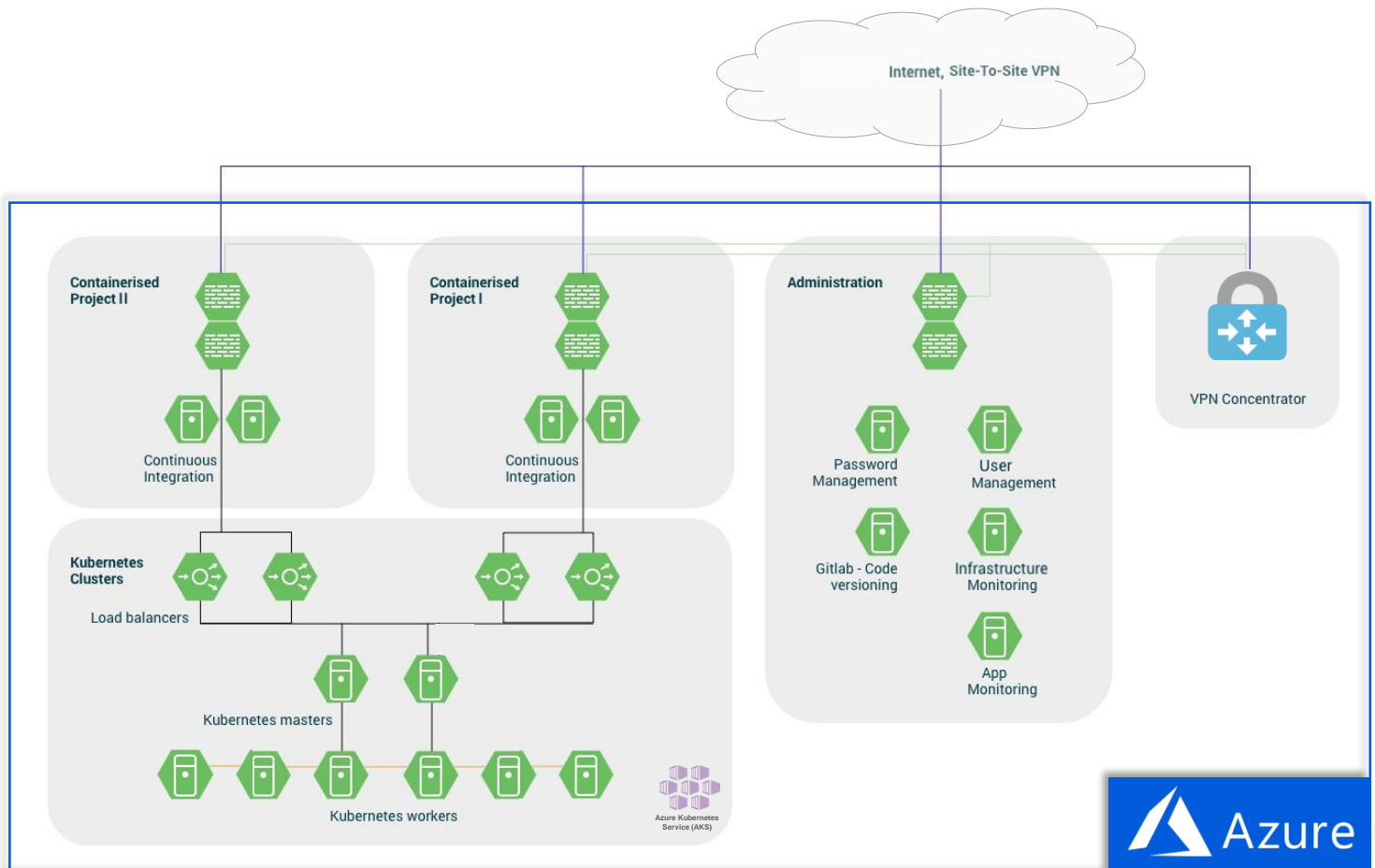
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BTT CLOUD MANAGED KUBERNETES SERVICES INCLUDE:

1. Need analysis, task definition and project planning

2. Migration of current application architecture (As-Is) to Azure infrastructure services, testing and preparation for refactoring

3. DevOps assistance in reengineering and refactoring of existing application architecture to containers and actual migration to Kubernetes platform on Azure

4. Practical implementation of DevOps processes and practices to make your development team more efficient

5. Implementation of BTT Cloud best-practice based DevOps platform (incl. GitLab, CI, VPN, Admin, Secrets, etc.)

6. Training and onboarding of system developers to work in Kubernetes platform with BTT Cloud DevOps

SUGGESTED FLOW:

The Task → Develop App

Create docker containers for the application ← Launch the application on Kubernetes

BTT Cloud DevOps Support
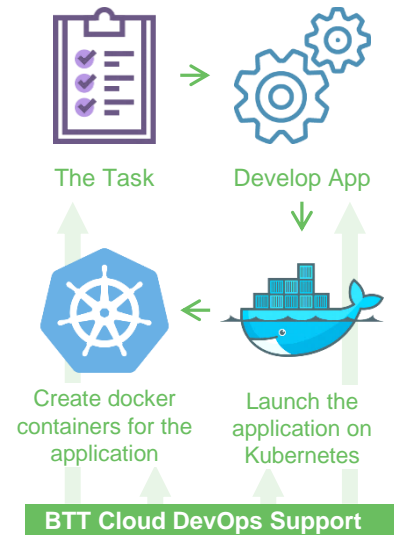
EXAMPLE ARCHITECTURE OF BTT CLOUD MANAGED KUBERNETES DEVOPS PLATFORM

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HOW INTERNATIONAL COMPANIES ARE USING AZURE KUBERNETES SERVICE (AKS)

Hafslund uses containerized software for utility initiatives and to improve customer service

We wanted a platform to speed development and testing but do it safely, without losing control over security and performance. That's why Azure and AKS are the perfect fit for us.

Ståle Heitmann, Chief Technology Officer, Hafslund Nett

Read the story

Microsoft

Maersk uses the cloud to spur development of containerized solutions built on Kubernetes

Using Kubernetes on Azure satisfies our objectives for efficient software development. It aligns well with our digital plans and our choice of open-source solutions.

Rasmus Hald, Head of Cloud Architecture, A.P. Moller - Maersk

Read the story

Microsoft

Siemens Healthineers moves more computing to the cloud to support value-based care development

Using AKS puts us into a position to not only deploy our business logic in Docker containers, including the orchestration, but also … to easily manage the exposure and control.

Thomas Gossler, Lead Architect, Digital Ecosystem Platform, Siemens Healthineers

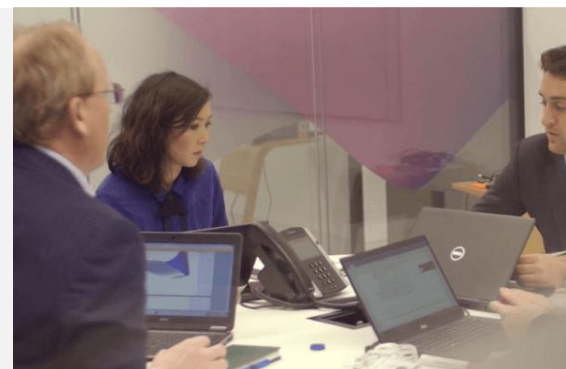**Read the story**

Microsoft

Finastra chooses AKS for its next-generation financial technology development ecosystem

AKS gives us a pure Kubernetes and Docker imaging environment that we don't have to manage ourselves. Our team has regained the resources to accelerate deployment and maximize our PaaS offering.

Félix Grévy, Global Head of Product Management, Finastra

Read the story

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For more information about how **Kubernetes** can help your business, visit www.bttcloud.com or call us at +370 5 203 4385.

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