btt cloud

Why Your Business Needs Managed Kubernetes

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 2018.

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.

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btt cloud
Business / Technology / Team

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 cluster 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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WHY SHOULD YOU CARE?

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 migrate your solution between IaaS vendors (AWS, Azure, GCE, BTT Cloud, etc.)

SEGREGATION OF DUTIES

Once they are set up and properly configured, you can expect your

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.
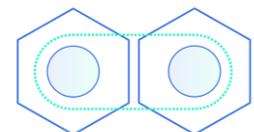
BTTCLOUD LEADING THE ADOPTION
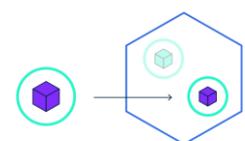
CREATE KUBERNETES CLUSTER

DEPLOY AN APP

EXPOSE TO PUBLIC

SCALE UP YOUR APP

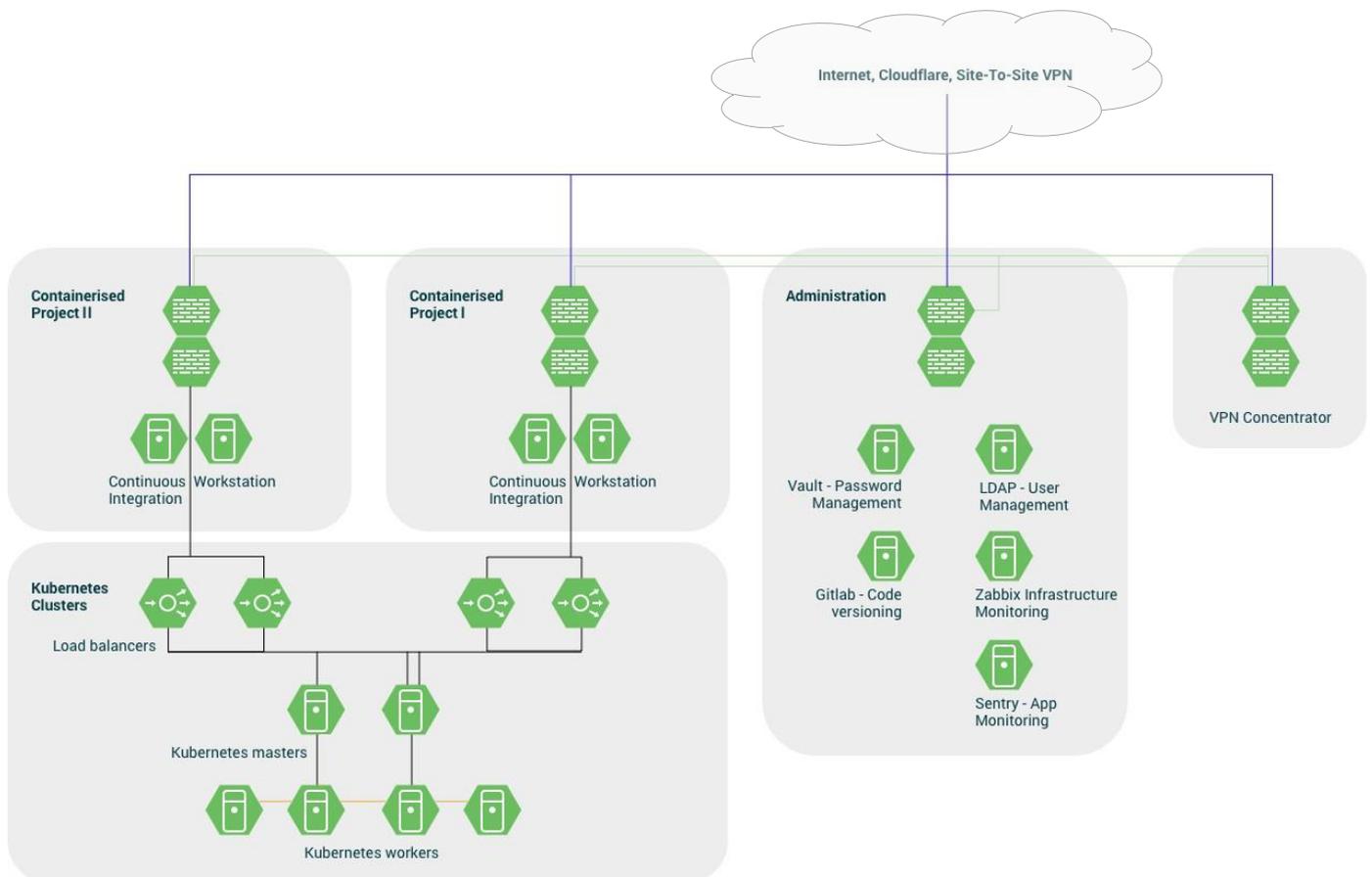### UPDATE YOUR APP

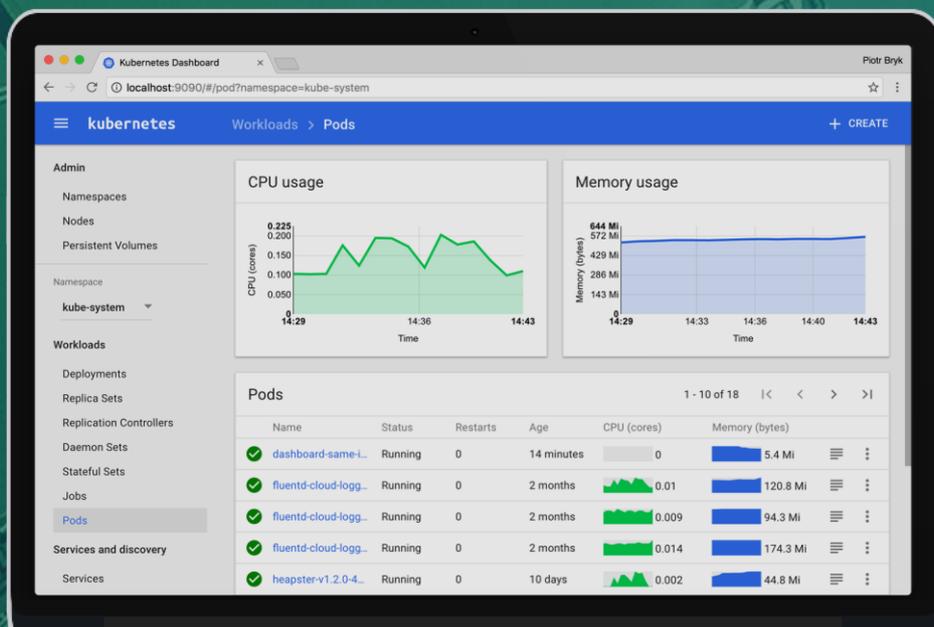## BTT CLOUD MANAGED KUBERNETES SERVICES INCLUDE:

1. Need analysis, task definition and project planning

2. Reengineering and restructuring of existing information system architecture to containers and migration to Kubernetes platform

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

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

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

SUGGESTED FLOW:

The Task → Develop App

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

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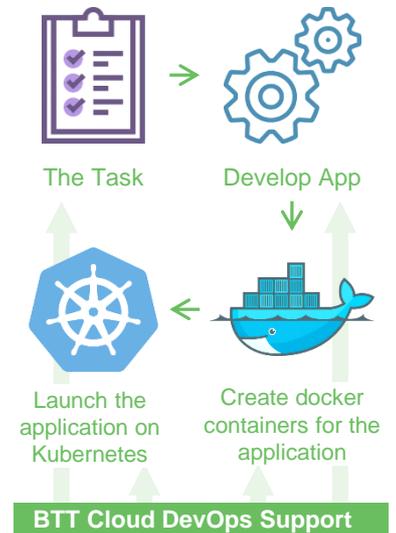
ARCHITECTURE OF BTT CLOUD MANAGED KUBERNETES DEVOPS PLATFORM

Internet, Cloudflare, Site-To-Site VPN

Containerised Project II

Continuous Integration — Workstation

Containerised Project I

Continuous Integration — Workstation

Administration

Vault - Password Management

LDAP - User Management

Gitlab - Code versioning

Zabbix Infrastructure Monitoring

Sentry - App Monitoring

VPN Concentrator

Kubernetes Clusters

Load balancers

Kubernetes masters

Kubernetes workers

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

CONTACT US