Containers in Azure

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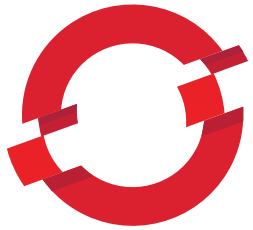
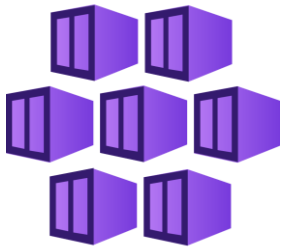
Containers in Azure

- Azure offers various services for working with containers
- Each has its own pros and cons
- It's important to be familiar with these services and choose the right one
- Azure Container Apps is the newest container-based service

Containers in Azure



Azure Red Hat OpenShift



Azure Kubernetes Services

App Services

Azure Container Instance

Azure Function App

Control

Productivity

Containers in Azure Functions

- Azure Function can be deployed as a Linux container
- The Function's code is containerized and pushed to the registry
- The Function pulls the image from the registry and runs it
- Takes advantage of all the Function App capabilities:
  - Serverless, autoscaling, authentication and more

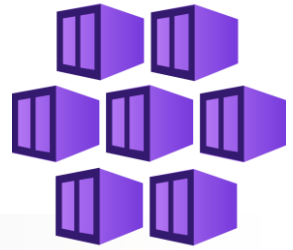
Azure Container Instance

- Simple and effective container runtime environment
- Just upload the container and it runs
- No complex configuration
- No advanced capabilities (autoscaling, etc.)

App Services

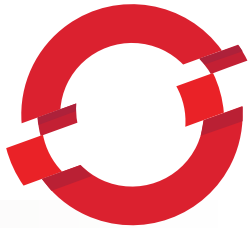
- The Web App for Containers capability supports containers in App Services
- Pulls the container from the registry and it runs in App Service
- Takes advantage of all the App Services capabilities
    - Autoscaling, load balancing, authentication and more

Azure Kubernetes Services



- Fully managed Kubernetes in the cloud
- Supports all of Kubernetes capabilities
- No need to deal with virtual machines
- Supports automatic upgrade

Azure Red Hat OpenShift

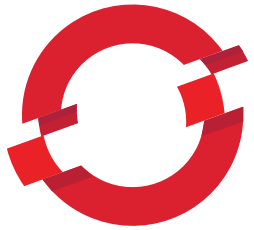


- Fully managed Red Hat OpenShift platform
- Built on Kubernetes, adds a lot of features
- High availability
- Over the air upgrades
- Joint engineering and support from Microsoft and Red Hat

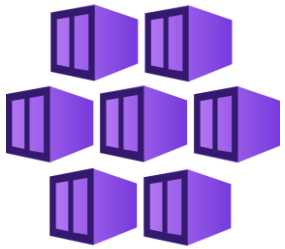
Azure Container Registry

- Fully managed registry for Docker images
- Geo-replicated
- Can build the images
- Can scan images for vulnerabilities
- Used by all container services in Azure

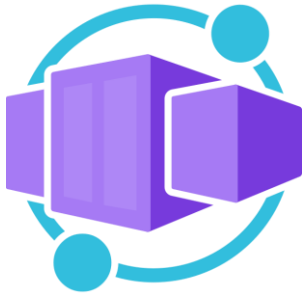
Containers in Azure



Azure Red Hat OpenShift



Azure Kubernetes Services



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