

Festive Tech Calendar

AKS and App Gateway: the ideal combo



AGENDA

- ★ Presentation
- ★ Azure Kubernetes Services
- ★ Application Gateway / Web Application Firewall
- ★ Ingress Controller
- ★ Let's Encrypt
- ★ Questions



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HELLO! I AM Florent

@florent_app



Speaker (MMSMOA, DevDay, aOS, ExpertsLive, Scottish Summit, Azure Advent Calendar, etc.)

Azure Kubernetes Services



AKS

- ★ Deployment method:
 - ★ Azure CLI
 - ★ PowerShell
 - ★ Azure Portal
- ★ Kubernetes service, PaaS, managed by Microsoft
- ★ Auto scaling
- ★ Deployment of Service Principal, network, load-balancer, route table, NSG, public IP and VMSS
- ★ Update following releases of Microsoft
- ★ Automatic patching of nodes available
- ★ Kubectl to manage the cluster
- ★ Cost: VMs only



DEMO





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Application Gateway / Web Application Firewall

App Gateway / WAF

- ★ Deployment method:
 - ★ Azure CLI
 - ★ PowerShell
 - ★ Azure Portal
- ★ Port 80/443 only
- ★ WAF with rules customization
 - ★ Detection / Prevention
- ★ Cost: 285€/month



DEMO



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Ingress Controller



Ingress Controller

- ★ Via App Gateway
- ★ New deployment type in Preview
- ★ Pods deployment on AKS to do the communication with App Gateway
- ★ Managed identity to manage permissions and rights
- ★ Integration in the YAML with annotations
- ★ Cost: 0€ 😊

DEMO



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Let's Encrypt



Let's Encrypt

- ★ Integration with App Gateway and AKS
- ★ Cert-Manager
- ★ Let's Encrypt
 - ★ Certificate available 3 months
 - ★ Automatic renewal
 - ★ Website protected with SSL certificate
- ★ Integration in the YAML with annotations
- ★ Cost: 0€ 😊



DEMO





https://github.com/Flodu31/Presentations/tree/master/FestiveTechCalendar_122020





**MERRY CHRISTMAS
AND A HAPPY NEW YEAR!**



