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12-13.12.2020 | on your screen

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ΘΕΜΑ

PROFESSIONAL it security

AGENDA

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

Presentation

- Florent Appointaire
- florent@falaconsulting.be
- Microsoft MVP Azure (5 times)
- Azure Solutions Architect
- Speaker (MMSMOA, DevDay, aOS, ExpertsLive, Scottish Summit, Azure Advent Calendar, Feste Tech Calendar, etc.)
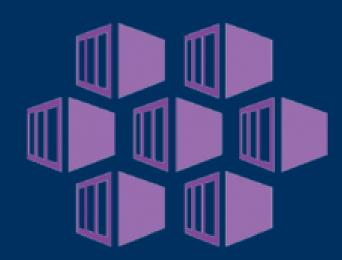- https://cloudyjourney.fr
- @florent_app

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Microsoft CERTIFIED AZURE SOLUTIONS ARCHITECT EXPERT

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

Azure 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

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€ ☺

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

Questions

MERRY CHRISTMAS
AND A HAPPY NEW YEAR!