



# Deep Network GmbH

Landsbergerstr. 302 | 80687 München | Deutschland +49 (0) 89 6151 5236 | [www.deepnetwork.com](http://www.deepnetwork.com)

## Title

- AKS for Ops Professionals: 3-days workshop

## Program

### Day-1

Module-1: Introducing Containers and Kubernetes	2h
What is Kubernetes	20m
What is Container	40m
Lab-1: Using containers	1h
Module-2: Kubernetes Core Concepts	6h
Kubernetes architecture and principles	1h
Lab-2: Access and navigate Kubernetes cluster	1h
Kubernetes Core Objects	1h
Lab-3: Use Core Objects	1h
Kubernetes networking	1h
Lab-4: Services and Ingress	1h

### Day-2

Module-3: Advanced Kubernetes	8h
RBAC	30m
Lab-5: Configure RBAC	1h
Network Policies	30m
Lab-6: Use Network Policies	1h
Resource Management and Pod Security Policies	1h
Lab-7: Enforcing Pod Policies	1h
Scheduling	30m
Lab-8: Taints, tolerations, affinity	1h
Packaging and Releasing components	30m
Lab-9: Using Helm	1h



# Deep Network GmbH

Landsbergerstr. 302 | 80687 München | Deutschland +49 (0) 89 6151 5236 | [www.deepnetwork.com](http://www.deepnetwork.com)

## Day-3

Module-4: Azure Kubernetes Service	4h
Node Pools, auto-scaling, spot-instances	
Networking	
Storage	
Azure Active Directory integration	
Module-5: AKS management and maintenance	3h
AKS as a Code	30m
AKS and Kubernetes upgrades	30m
Lab-10: provision AKS cluster from scratch	2h
Module-6: Summary	1h
Workshop summary and Q&A	