

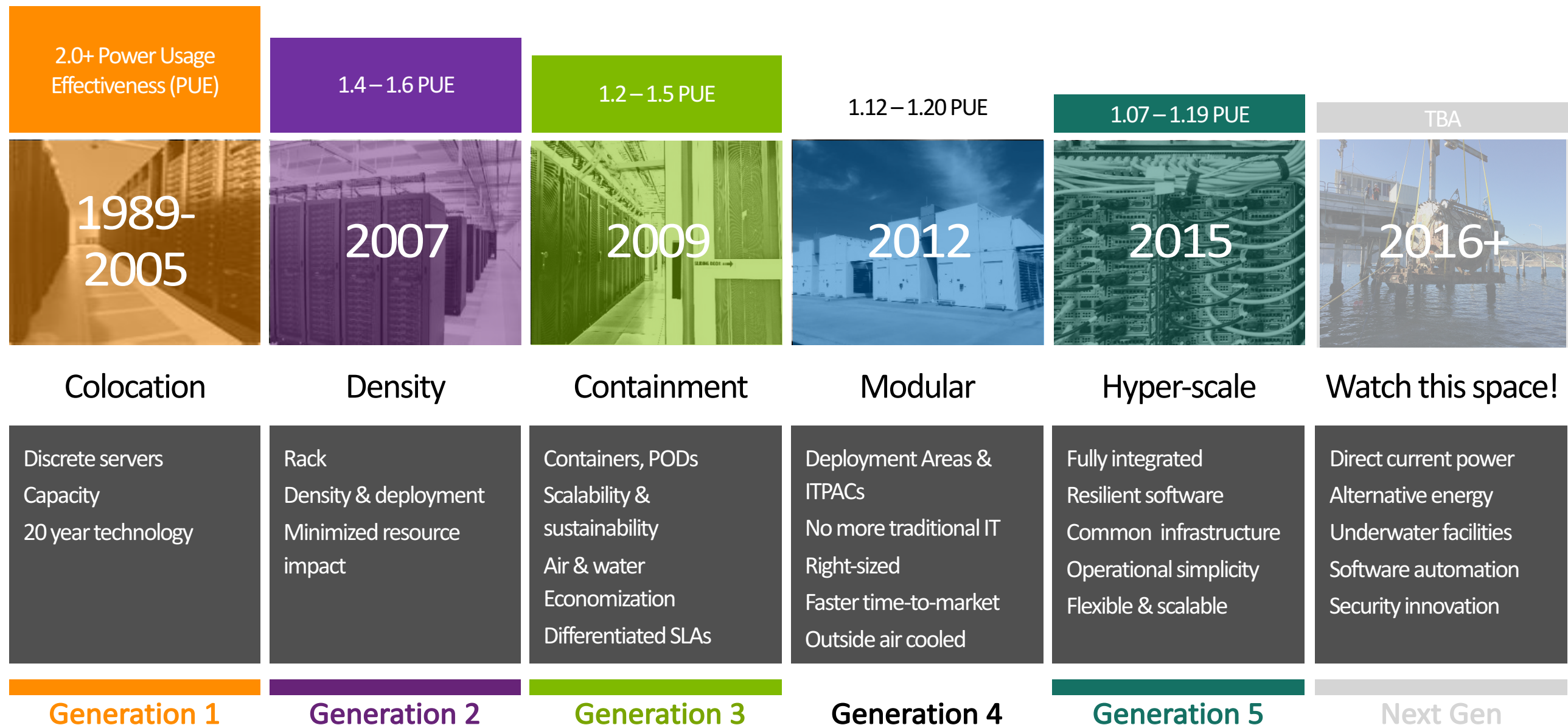
A STORY OF LINUX ON AZURE

MICROSOFT  **LINUX**



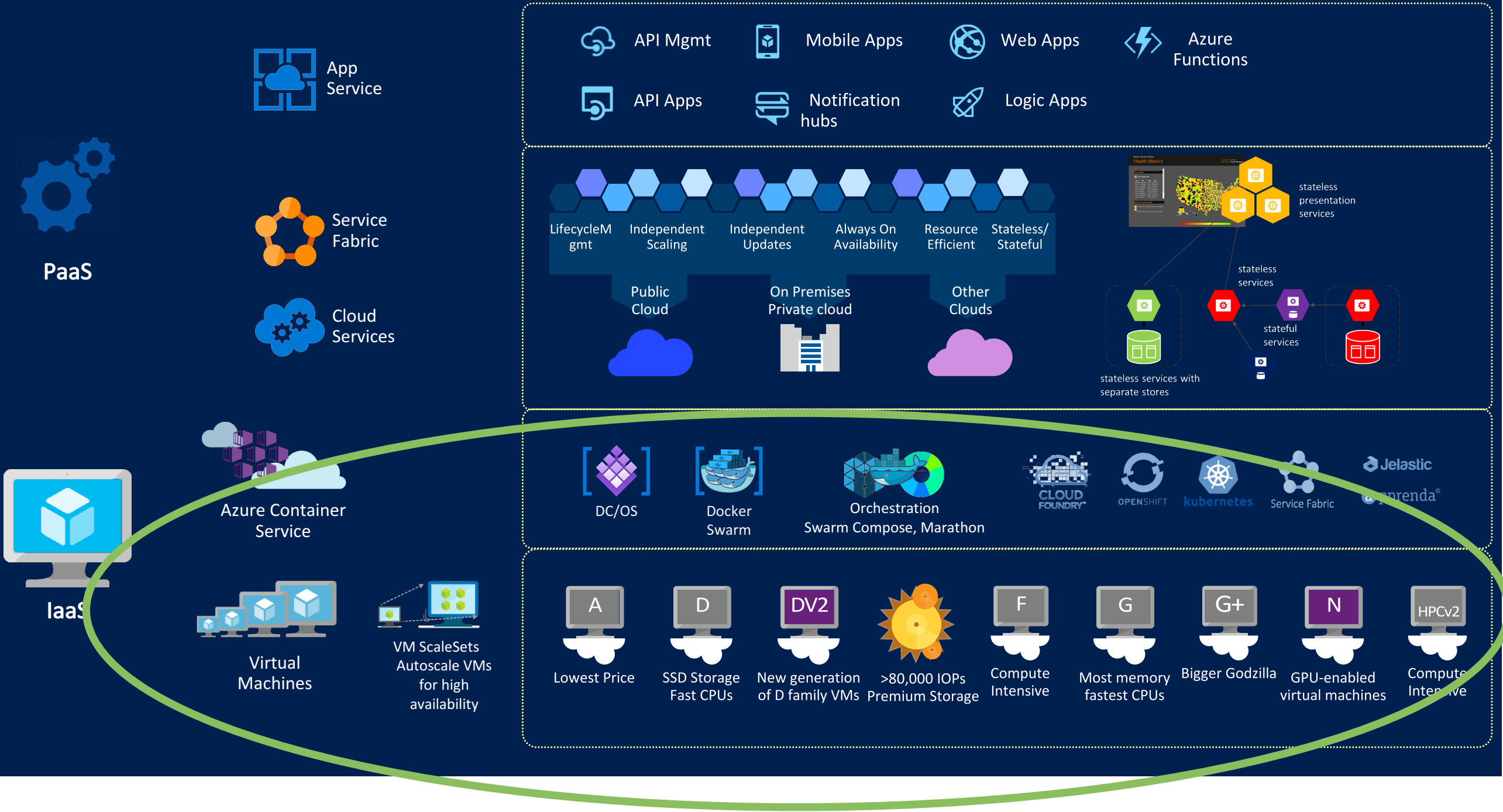
```
{ "WTF" : "SUCKER FOR DRAMA", "TAKEAWAYS" : [  
  { "MOTIVATION" : "CAN YOU DO IT BETTER" },  
  { "MOTIVATION" : "ASK WHY SHOULD YOU..FOCUS" } ] }
```

Datacenter Innovation



IAAS & CONTAINERS

IaaS, PaaS, Microservices



AZURE RESOURCES



Resource group



Compute: SKU/ CPU/ Mem



Storage account → Managed disks



VNet + Subnet

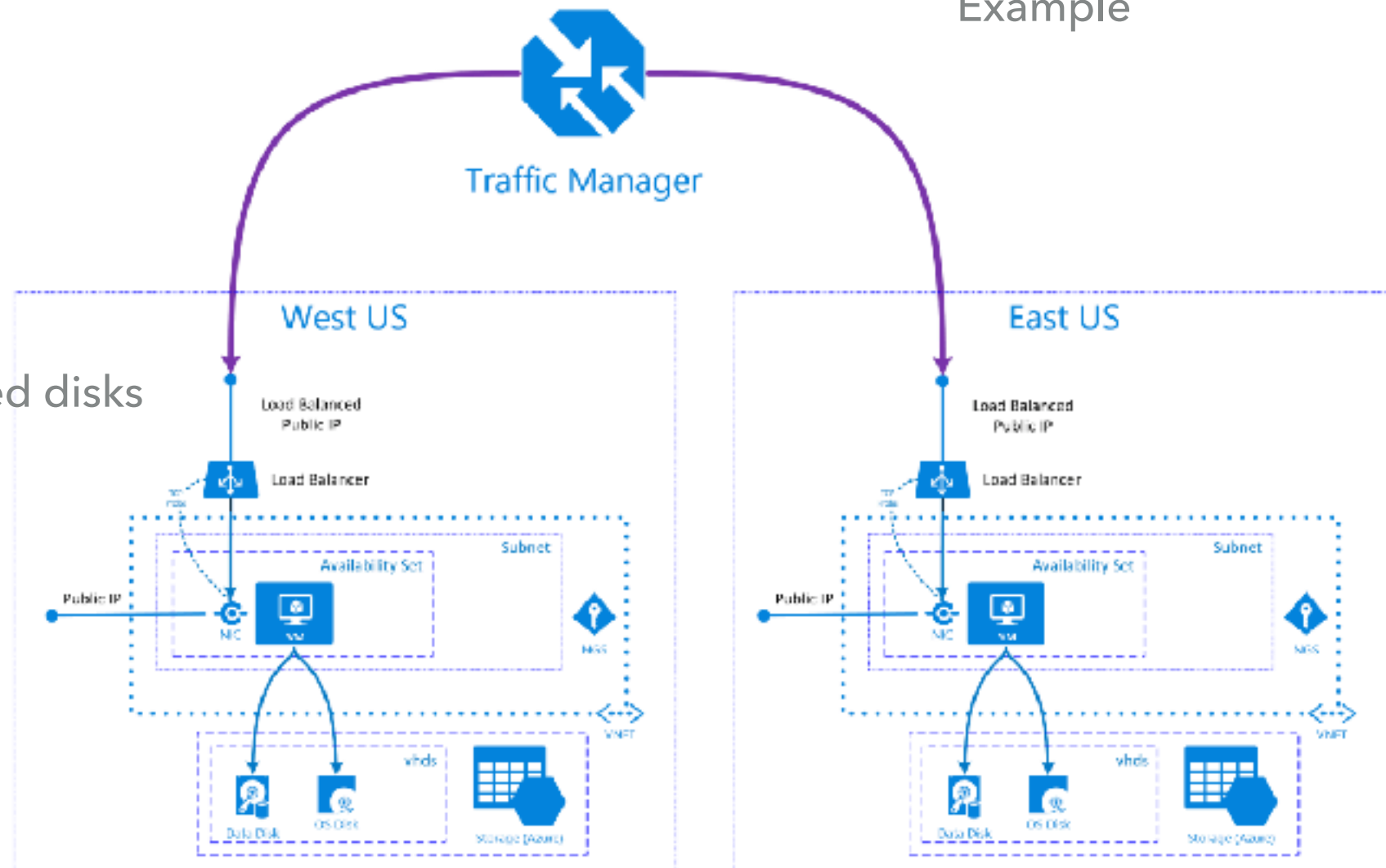


Network interface



Network security group

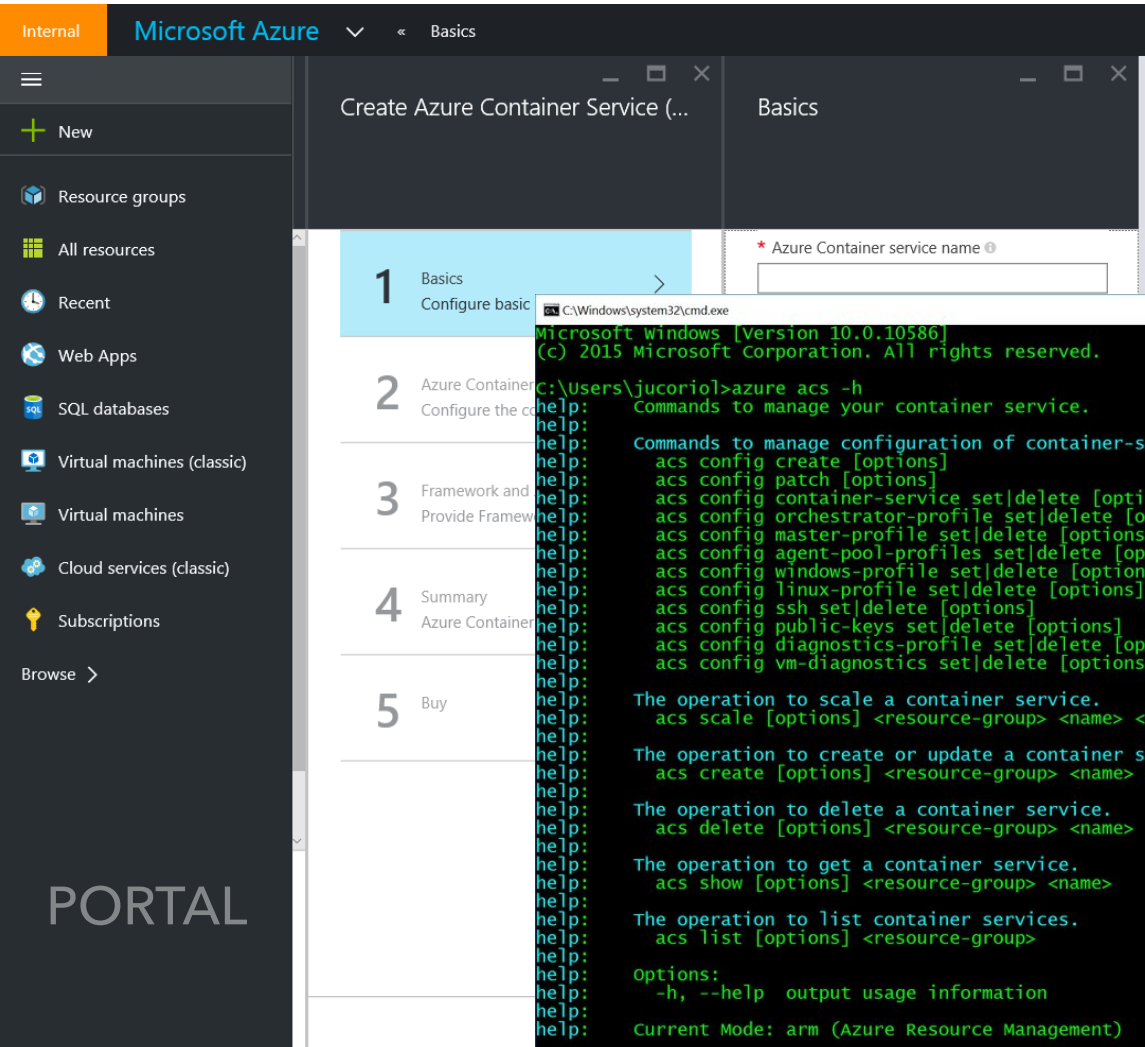
Example



<https://resources.azure.com/>

<http://armviz.io>

AUTOMATE



```
1 {
2   "apiVersion": "2015-11-01-preview",
3   "type": "Microsoft.ContainerService/containerServices",
4   "name": "MyContainerService",
5   "location": "[resourceGroup().location]",
6   "properties": {
7     "orchestratorProfile": { "type": "mesos" },
8     "masterProfile": {
9       "count": "3",
10      "dnsPrefix": "containerservicemgmt"
```

CLI/ powershell

ARM



LINUX

LINUX ON HYPER-V

LINUX INTEGRATED SERVICES

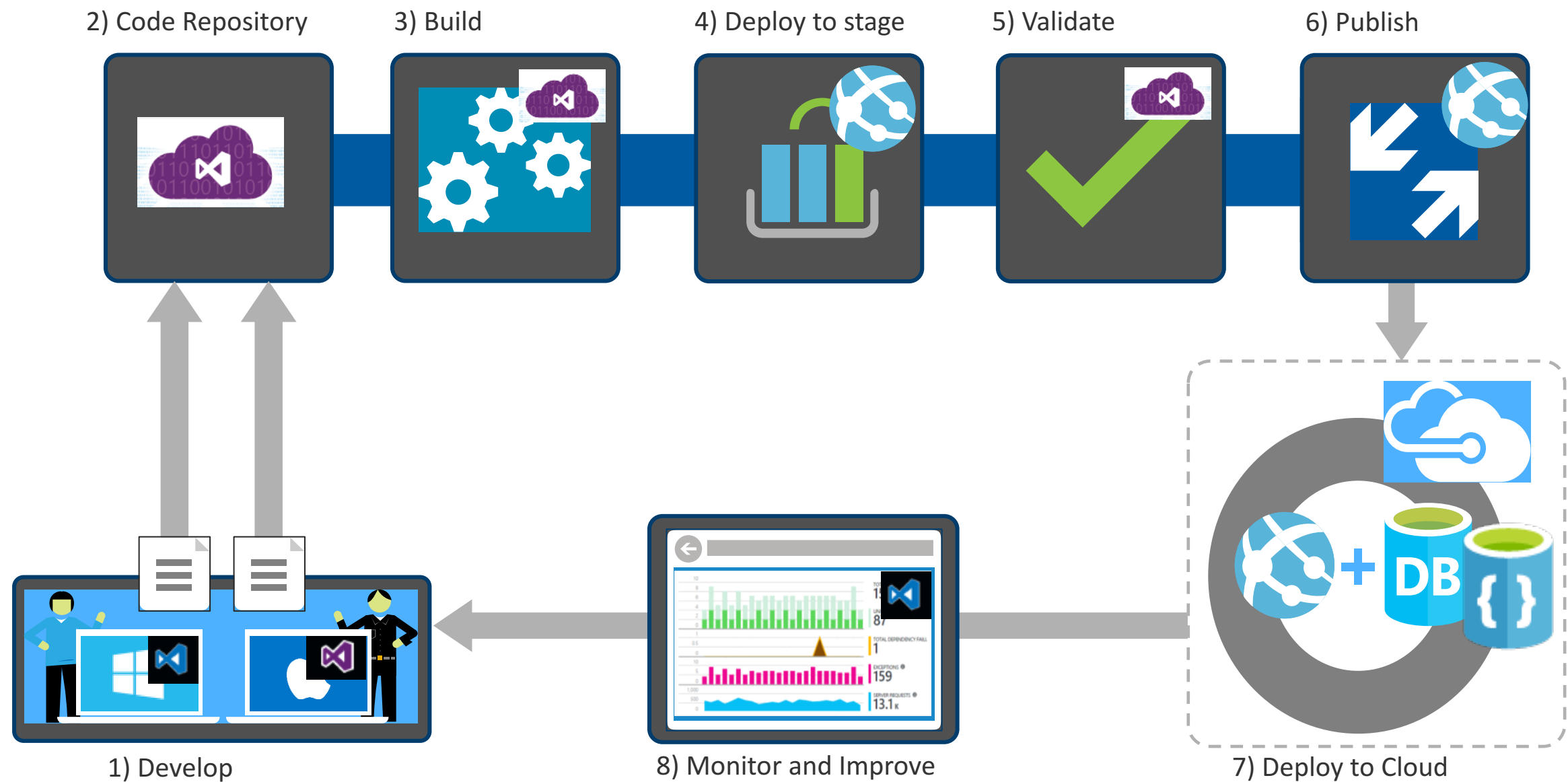
IMAGES CREATED BY PARTNERS,
TESTED BY MICROSOFT

OWN/CUSTOM IMAGES

SUPPORTED DISTROS



DEMO CICD: PACKER/ ARM AND ANSIBLE EXAMPLE



MONITORING



...CONTAINERS



Build

Develop an app using Docker containers with any language and any toolchain.



Ship

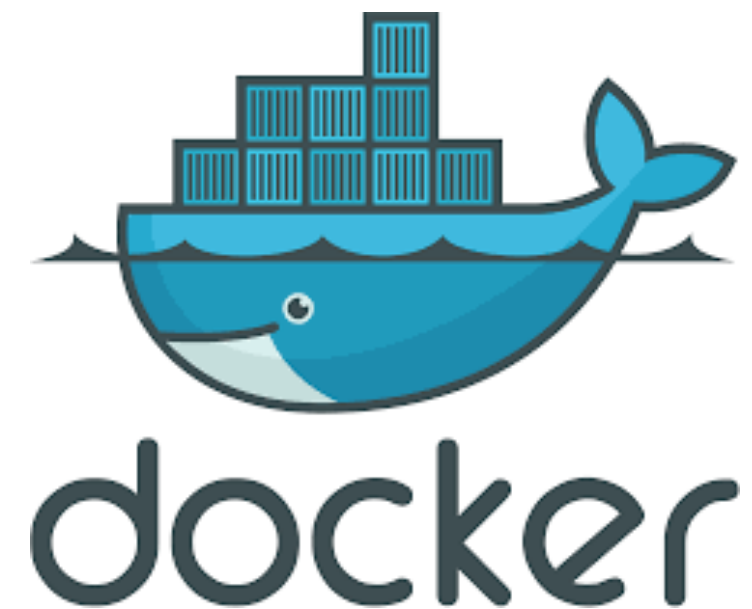
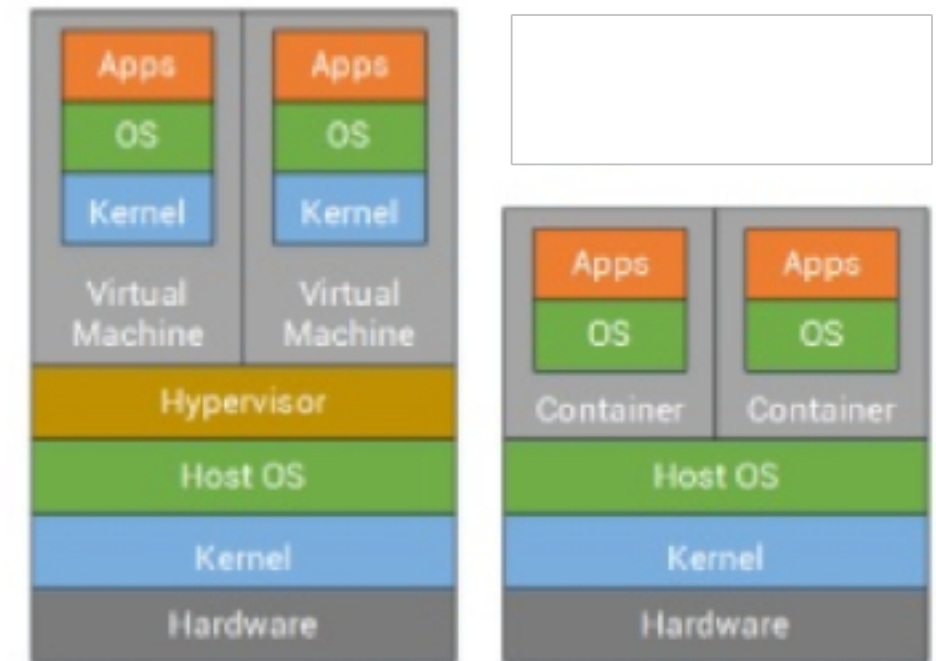
Ship the "Dockerized" app and dependencies anywhere - to QA, teammates, or the cloud - without breaking anything.



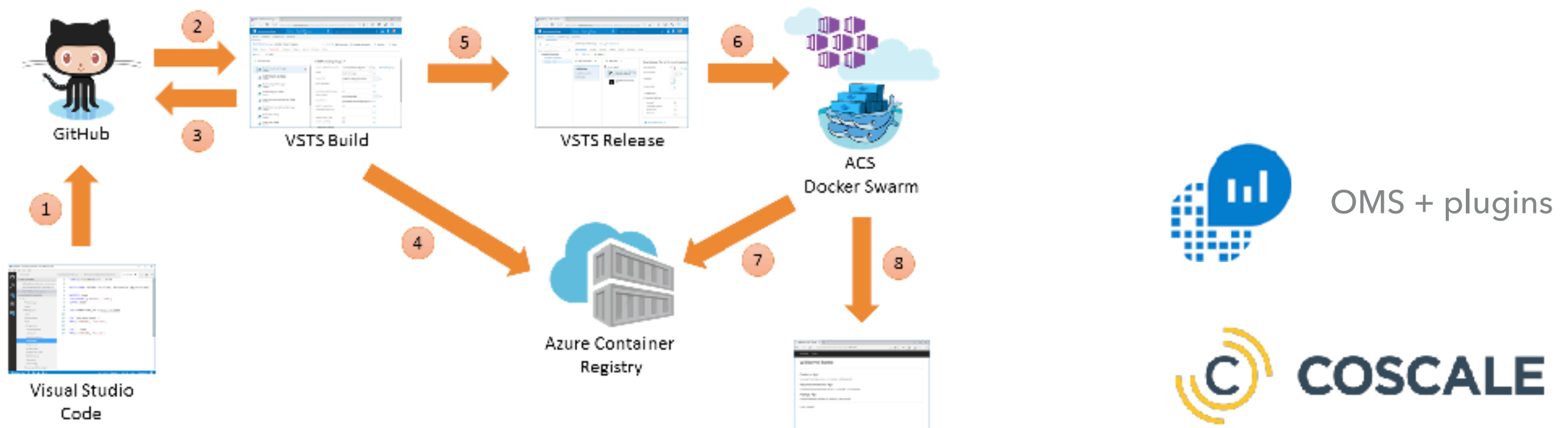
Run

Scale to 1000s of nodes, move between data centers and clouds, update with zero downtime and more.

Application Orchestration	CloudFoundry, Heroku, OpenShift, Deis
Container Orchestration	Kubernetes, Marathon, Swarm, Fleet, Lattice, ECS
Job Scheduling	Chronos, Kubernetes
Containerization	Docker, Rkt, Garden, Mesos
Resource Management	Mesos
Provisioning	Puppet, Chef, Ansible, Salt, Vagrant, Otto
Machine Management	AWS, Azure, GCE, OpenStack, vSphere, VirtualBox, Fusion



CONTROLLING THE MADNESS



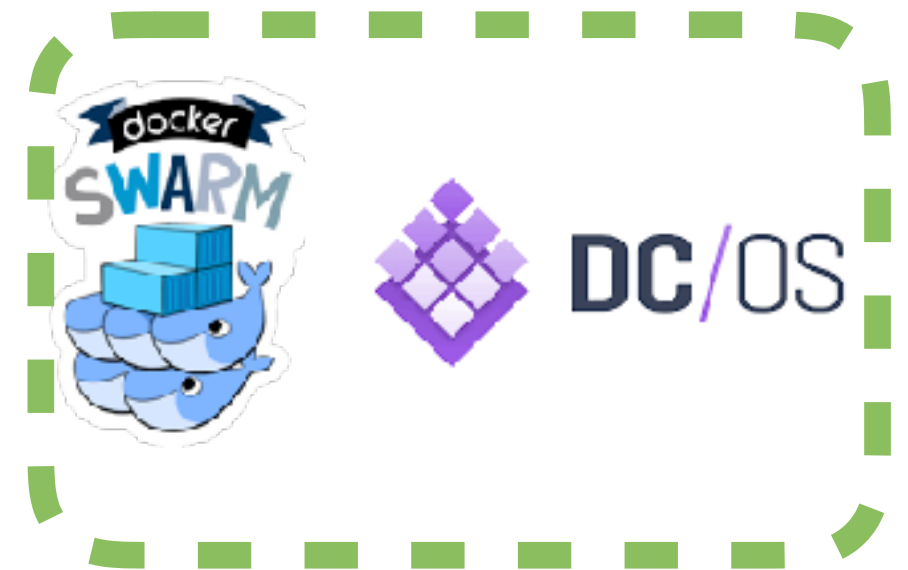
ORCHESTRATORS, PIPELINES, MONITORING



ON AZURE...



AZURE CONTAINER SERVICE (ENGINE)



AZURE CONTAINER REGISTRY



AZURE CONTAINER INSTANCE



DEMO CICD: KUBERNETES DEPLOYMENT

