

Kubernetes Master Class

Up and Running with Windows Server Containers



JvB



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Agenda

- Demonstrate the current capabilities of Windows Container Support in Rancher.
- Review Docker Architecture in Windows
- Discuss the limitations of Windows Container Support in Rancher.
- Pathway to GA
- Terraform Provider



First Things First

- Rancher
- Terraform
- Some Server – Linux and Windows



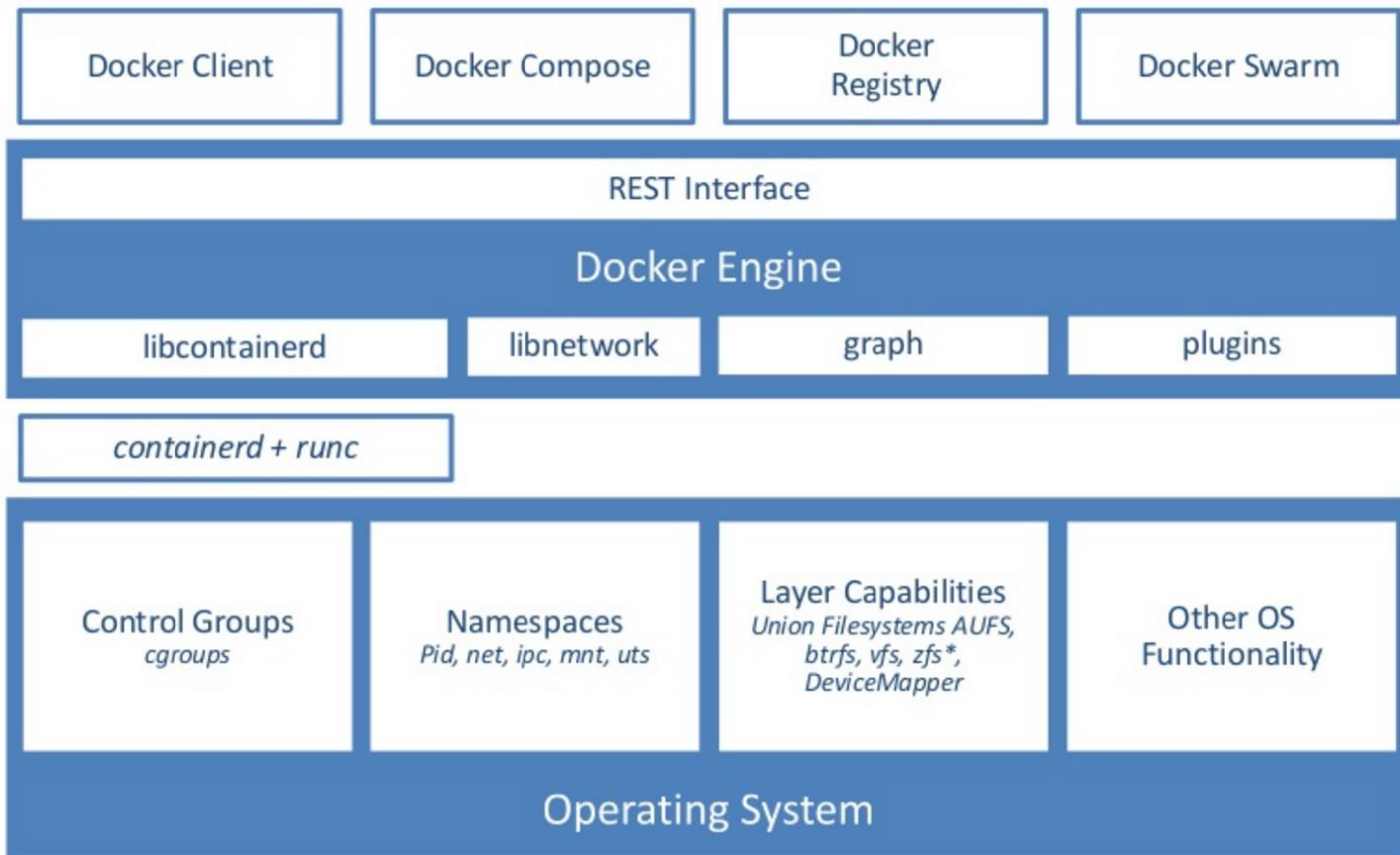
Source Material

DockerCon 16: Windows Server & Docker - The Internals Behind
Bringing Docker & Containers to Windows - Black Belt

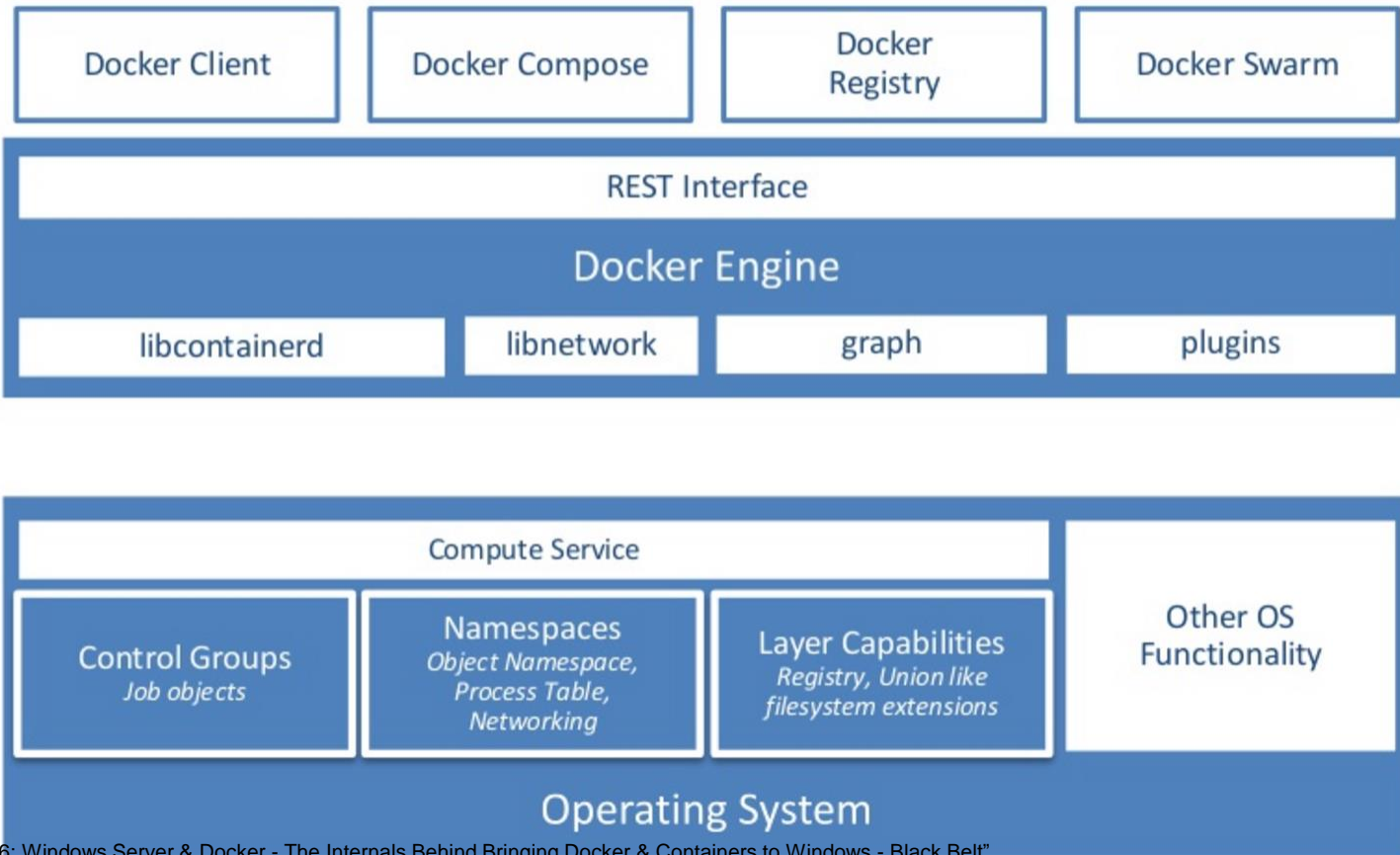
<https://channel9.msdn.com/Blogs/containers/DockerCon-16-Windows-Server-Docker-The-Internals-Behind-Bringing-Docker-Containers-to-Windows>



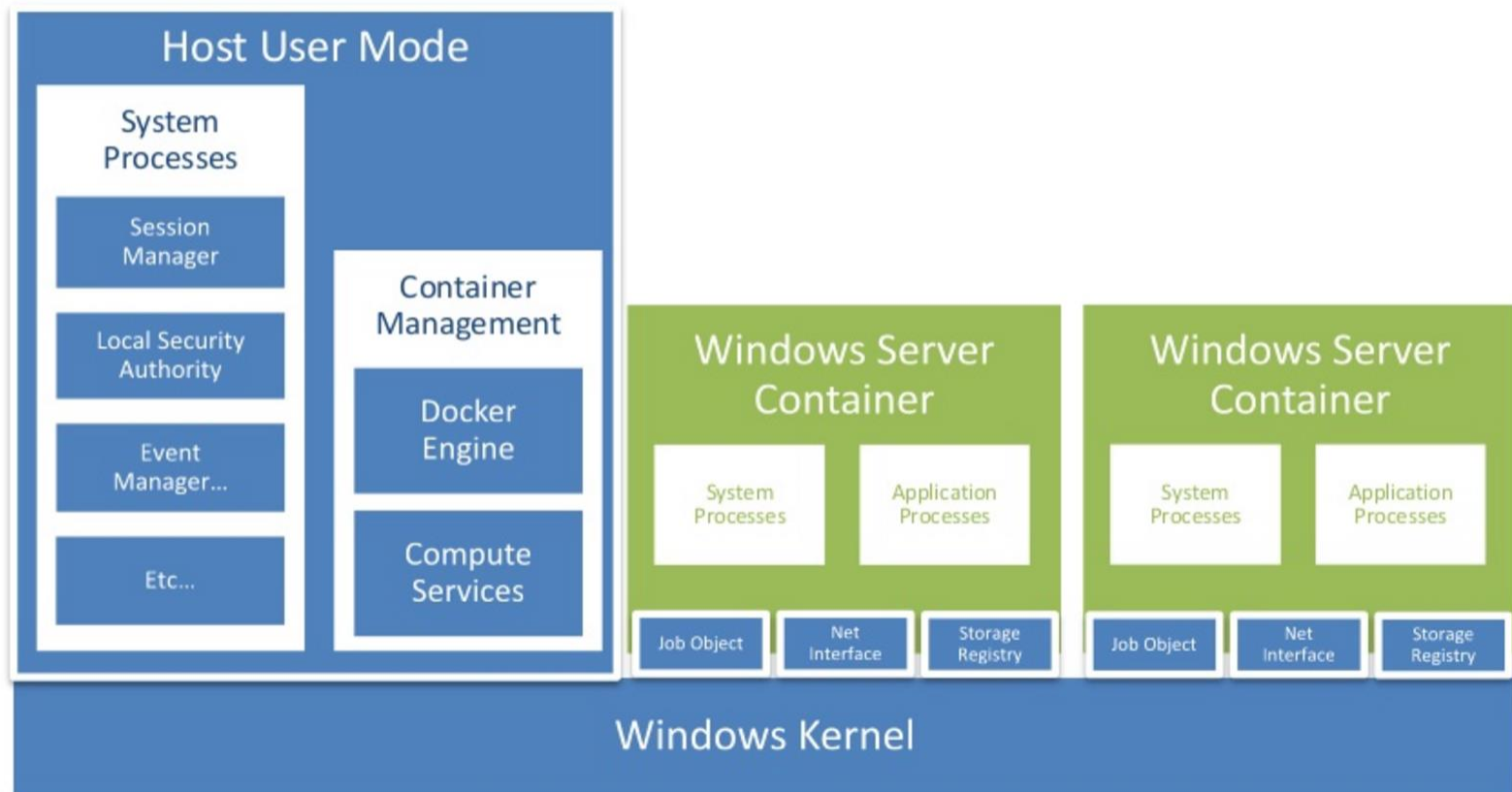
Architecture In Linux



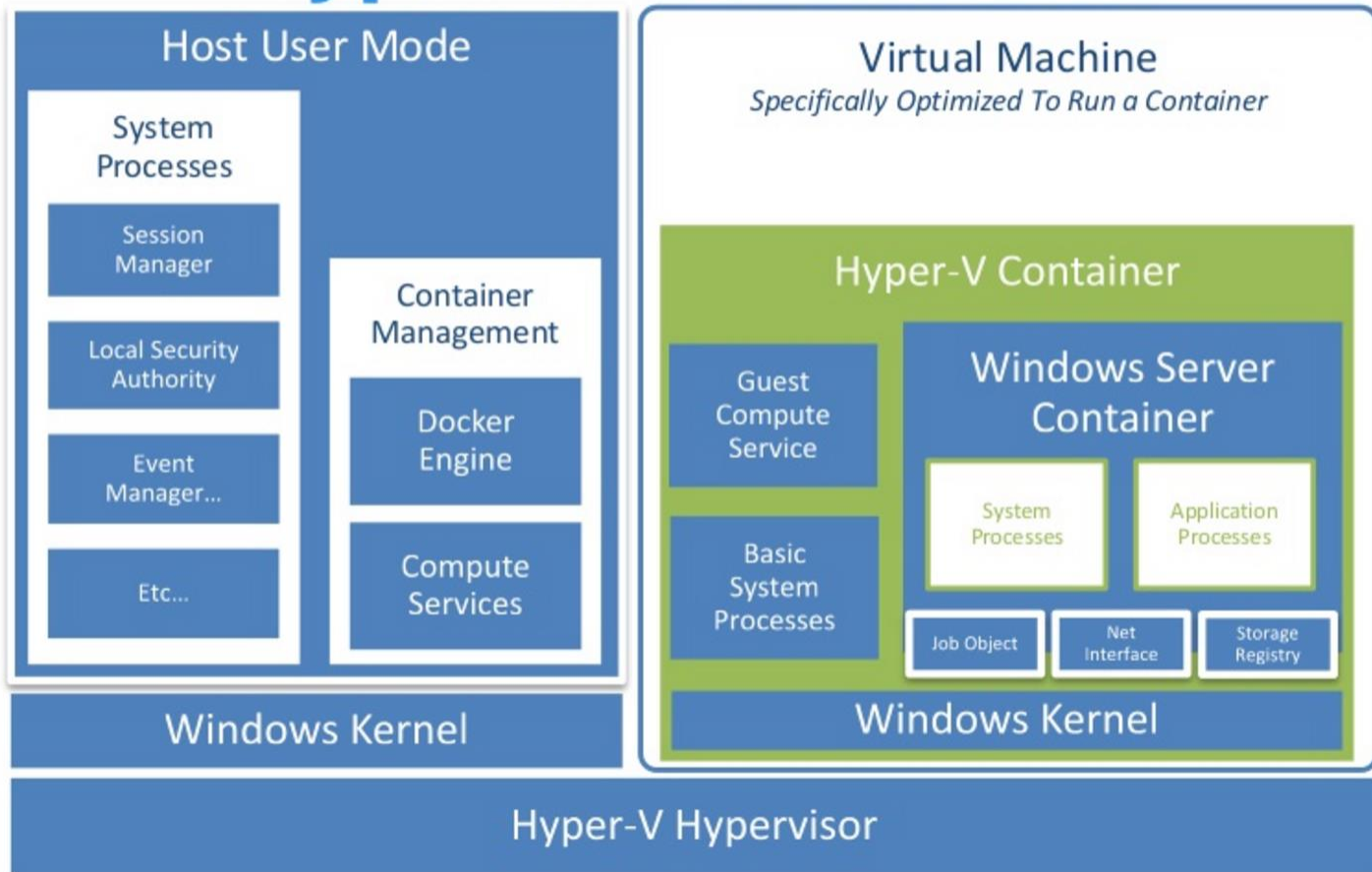
Architecture In Windows



Windows Server Containers



Hyper-V Containers



Gotchas

Version Compatibility

<https://docs.microsoft.com/en-us/virtualization/windowscontainers/deploy-containers/version-compatibility>

Networking

Documentation

<https://github.com/kubernetes/community/tree/master/sig-windows>

Experimental Support

Custom Workflow Only*

Flannel

vxlan on Linux

host-gw on Windows



Road To GA

sig-windows

<https://github.com/kubernetes/community/tree/master/sig-windows>

<https://kubernetes.slack.com/messages/C0SJ4AFB7>

Windows Support KEPs

<https://github.com/kubernetes/enhancements/tree/master/keps/sig-windows>



Resources

Microsoft Documentation

<https://docs.microsoft.com/en-us/virtualization/windowscontainers/index>

GitHub

<https://github.com/jasonvanbrackel/kubernetes-windows-server-container-master-class>

DockerCon 16: Windows Server & Docker - The Internals Behind Bringing Docker & Containers to Windows - Black Belt

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<https://morehuman.software>





Thank You!

rancher.com