

Containers

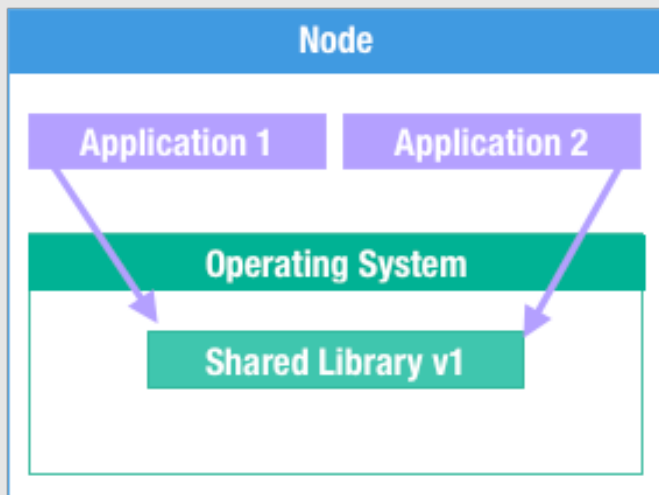
What they are and why they matter

What problem are we trying to solve?

What's wrong with VMs?

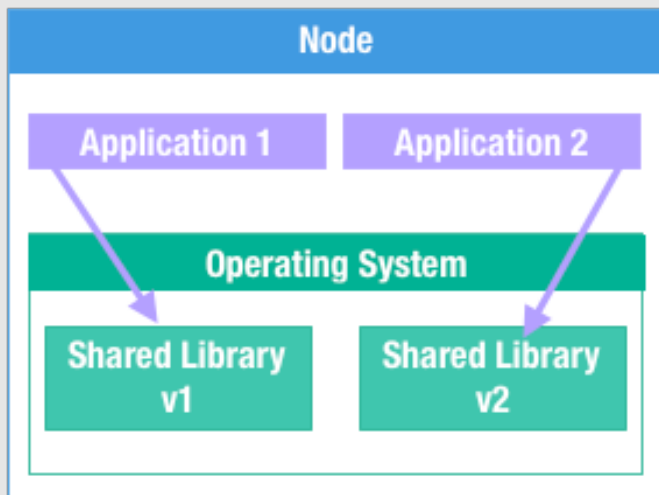
What are Containers?

Traditional Deployment



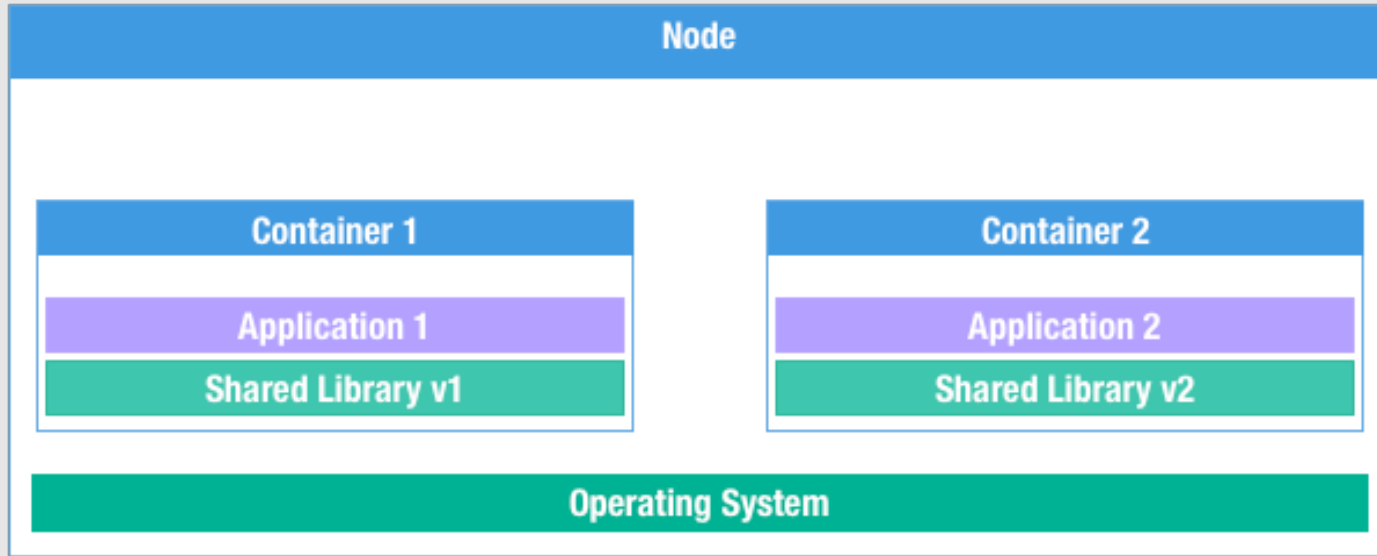
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Traditional Deployment

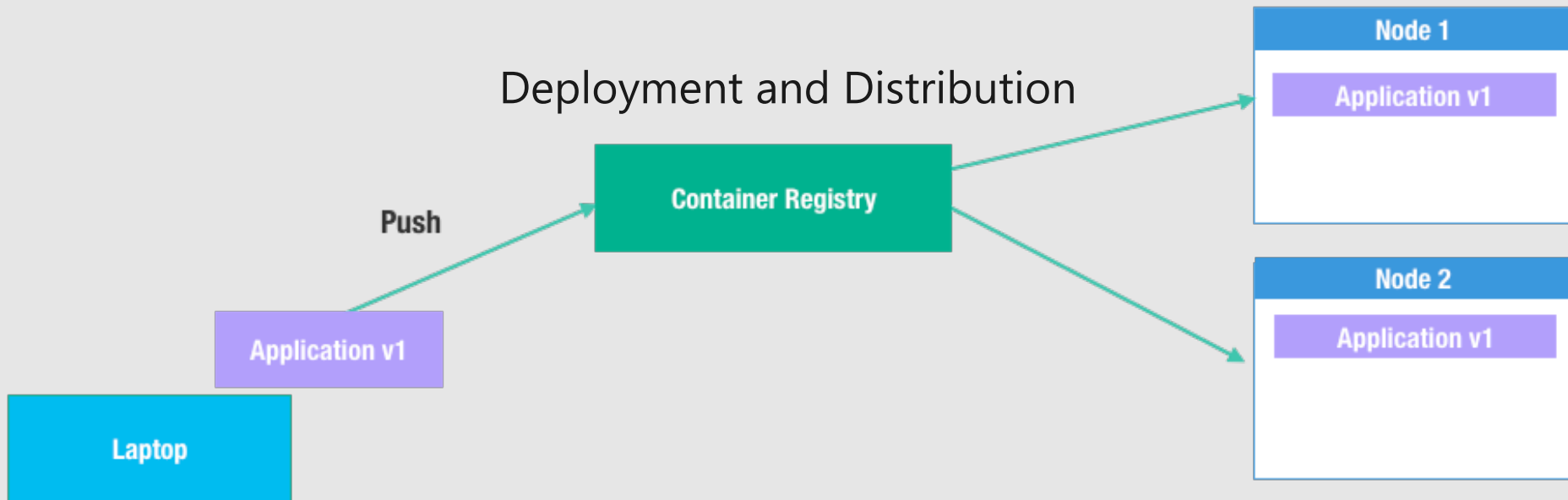


What are Containers?

Packaging and Deployment



What are Containers?



What are Containers?

- Clear boundaries for your applications, allowing you to know which assets belong to which application and who owns it.
- No more leftover cruft from previous installations or versions.
- Provides resource isolation, without the overhead of more VMs.
- Better resource utilization.

Azure App Service

Azure App Service

- Fully Managed Application Platform
- Deploy your stack natively or with containers (Node, PHP, .NET, Python)
- Support custom domains, SSL certificates, single sign-on
- Plug into Azure's wide variety of services
 - Load Balancing
 - CI/CD
 - Managed Databases



Azure App Service

- Continuous Delivery based on code changes or container pushes
- High Availability with multi-region deployments and autoscaling
- Azure Monitor provides detailed views of resource usage, while Application Insights provides deeper insights into your app's throughput, response times, memory/CPU utilization, and error trends.



Azure Container Registry

Azure Container Registry

- Use same docker commands as Docker Hub
- Private
- Eliminates egress/ingress traffic and latency
- Geo-replication - a single registry replicated across multiple regions
- Authenticate with Azure Active Directory
- Automatic Vulnerability Scanning
- Azure Container Registry Tasks / Builders

