Kubernetes Application Deployment (Simplified Guide)

Minimum Requirements

- Windows OS

- Internet Connection					
- Admin rights on PC					
Step-by-Step Setup (Easy Version)					
1. Install kubectl					
Open PowerShell as Administrator					
2. Run:					
curl.exe -LO "https://dl.k8s.io/release/v1.33.0/bin/windows/amd64/kubectl.exe"					
3. Create folder C:\kubectl and move kubectl.exe there					
4. Add C:\kubectl to your System Environment Variables > Path					
5. Verify installation:					
kubectl versionclient					
2. Install Minikube					
Open PowerShell as Administrator					
2. Create folder:					
New-Item -Path 'C:\' -Name 'minikube' -ItemType Directory -Force					
3. Download Minikube:					

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	Invoke-WebRequest	-OutFile	'C:\minikube\minikube.exe'	-Uri
"https://github.com/kube	ernetes/minikube/releases/lat	est/download/mi	nikube-windows-amd64.exe"	
-UseBasicParsing				
4. Add C:\minikube to th	ne System Path			
3. Install VirtualBox				
Download from: https://v	www.virtualbox.org/wiki/Dowr	nloads		
Install for Windows Hos	-			
motali for vvindovio rico				
Running the Kubern	etes Cluster			
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1. Start Minikube:				
minikube startdriver	=virtualbox			
Or if errors:				
minikube startno-vtx	x-check			
2. Check status:				
minikube status				
kubectl get nodes				
Deploy an Application	on			
1. Create deployment:				
kubectl create deployr	ment hello-minikubeimage=	-kicbase/echo-se	erver:1.0	

kubectl expose deployment hello-minikube --type=NodePort --port=8080

2. Expose it:

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3. Open in browser:

minikube service hello-minikube --url

Clean Up

kubectl delete service hello-minikube

kubectl delete deployment hello-minikube

minikube stop