roduct is in a pre-release state and might change or have limited support. For more information, see the <u>product laun</u> <u>;</u> (/products/#product-launch-stages).

Google Kubernetes Engine is a powerful cluster manager and orchestration system for running your Docker containers. GKE schedules your containers into the cluster and manages them automatically based on the requirements you define (such as CPU and memory). It's built on the open source Kubernetes system, giving you the flexibility to take advantage of on-premises, hybrid, or public cloud infrastructure.

Read the Google Cloud PowerShell cmdlet reference

(http://googlecloudplatform.github.io/google-cloud-powershell/) to learn more about GKE cmdlets. To learn more about GKE in general, read the <u>Overview of GKE</u> (/kubernetes-engine).

You can create a cluster by first creating a NodeConfig object with New-GkeNodeConfig cmdlet. After that, you can pass in the NodeConfig object to the Add-GkeCluster cmdlet. It will then create a cluster whose node pools will have their configurations set from the NodeConfig object.

Instead of passing in the NodeConfig object, you can also use the parameters provided in the Add-GkeCluster cmdlet to create a cluster (a NodeConfig object will be created internally by the cmdlet). You can update a cluster with Set-GkeCluster cmdlet. Only one property of the cluster can be updated at a time.

You can list available clusters with Get-GkeCluster cmdlet.

A node pool is a subset of machines within a cluster that all have the same configuration. While all nodes in a container cluster are identical, node pools let you create pools of machines within your

cluster that have different configurations. For example, you might create a pool of nodes in your cluster that have local SSDs or larger instance sizes. Because of this, node pools are useful for customizing the instance profile in your cluster.

To add a node pool to your cluster, you can first create a NodePool object with New-GkeNodePool cmdlet. You can then call Add-GkeNodePool cmdlet to add the NodePool object to a cluster.

You can list all the node pools in a cluster with Get-GkeNodePool cmdlet.

You can remove a node pool from a cluster with Remove-GkeCluster cmdlet.