kubectl run

Run a particular image on the cluster.

Synopsis

Create and run a particular image, possibly replicated. Creates a deployment or job to manage the created container(s).

```
kubectl run NAME --image=image [--env="key=value"] [--port=port] [--replicas=replicas] [--dry-run=bool] [--overr
```

Examples

```
# Start a single instance of nginx.
kubectl run nginx --image=nginx

# Start a single instance of hazelcast and let the container expose port 5701 .
kubectl run hazelcast --image=hazelcast --port=5701

# Start a single instance of hazelcast and set environment variables "DNS_DOMAIN=cluster" and "POD_NAMESPACE=def
kubectl run hazelcast --image=hazelcast --env="DNS_DOMAIN=cluster" --env="POD_NAMESPACE=default"

# Start a replicated instance of nginx.
kubectl run nginx --image=nginx --replicas=5

# Dry run. Print the corresponding API objects without creating them.
kubectl run nginx --image=nginx --dry-run

# Start a single instance of nginx, but overload the spec of the deployment with a partial set of values parsed
kubectl run nginx --image=nginx --overrides='{ "apiVersion": "v1", "spec": { ... } }'

# Start a single instance of busybox and keep it in the foreground, don't restart it if it exits.
kubectl run -i --tty busybox --image=busybox --restart=Never

# Start the nginx container using the default command, but use custom arguments (arg1 .. argN) for that command.
kubectl run nginx --image=nginx -- <arg1> <arg2> ... <argN>

# Start the nginx container using a different command and custom arguments.
kubectl run nginx --image=nginx --command -- <cmd> <arg1> ... <argN>

# Start the perl container to compute π to 2000 places and print it out.
kubectl run pi --image=perl --restart=OnFailure -- perl -Mbignum=bpi -wle 'print bpi(2000)'
```

Options

```
    --dry-run[=false]: If true, only print the object that would be sent, without sending it.
    --env=[]: Environment variables to set in the container
    --expose[=false]: If true, a public, external service is created for the container(s) which are run
    --generator="": The name of the API generator to use.  Default is 'deployment/v1beta1' if --restart=Always
    --hostport=-1: The host port mapping for the container port. To demonstrate a single-machine container.
    --image="": The image for the container to run.
-l, --labels="": Labels to apply to the pod(s).
    --leave-stdin-open[=false]: If the pod is started in interactive mode or with stdin, leave stdin open afte
    --limits="": The resource requirement limits for this container.  For example, 'cpu=200m,memory=512Mi'
    --no-headers[=false]: When using the default output, don't print headers.
-o, --output="": Output format. One of: json|yaml|wide|name|go-template=...|go-template-file=...|jsonpath=...|
    --output-version="": Output the formatted object with the given group version (for ex: 'extensions/v1beta1
    --overrides="": An inline JSON override for the generated object. If this is non-empty, it is used to over
    --port=-1: The port that this container exposes.  If --expose is true, this is also the port used by the s
    --record[=false]: Record current kubectl command in the resource annotation.
-r, --replicas=1: Number of replicas to create for this container. Default is 1.
    --requests="": The resource requirement requests for this container.  For example, 'cpu=100m,memory=256Mi'
    --restart="Always": The restart policy for this Pod.  Legal values [Always, OnFailure, Never].  If set to
    --rm[=false]: If true, delete resources created in this command for attached containers.
    --save-config[=false]: If true, the configuration of current object will be saved in its annotation. This
    --service-generator="service/v2": The name of the generator to use for creating a service.  Only used if -
    --service-overrides="": An inline JSON override for the generated service object. If this is non-empty, it
-a, --show-all[=false]: When printing, show all resources (default hide terminated pods.)
    --show-labels[=false]: When printing, show all labels as the last column (default hide labels column)
    --sort-by="": If non-empty, sort list types using this field specification.  The field specification is ex
-i, --stdin[=false]: Keep stdin open on the container(s) in the pod, even if nothing is attached.
    --template="": Template string or path to template file to use when -o=go-template, -o=go-template-file. T
    --tty[=false]: Allocated a TTY for each container in the pod.  Because -t is currently shorthand for --tem
```

Options inherited from parent commands

```
    --alsologtostderr[=false]: log to standard error as well as files
    --certificate-authority="": Path to a cert. file for the certificate authority.
    --client-certificate="": Path to a client certificate file for TLS.
    --client-key="": Path to a client key file for TLS.
    --cluster="": The name of the kubeconfig cluster to use
    --context="": The name of the kubeconfig context to use
    --insecure-skip-tls-verify[=false]: If true, the server's certificate will not be checked for validity. Th
    --kubeconfig="": Path to the kubeconfig file to use for CLI requests.
    --log-backtrace-at=:0: when logging hits line file:N, emit a stack trace
    --log-dir="": If non-empty, write log files in this directory
    --log-flush-frequency=5s: Maximum number of seconds between log flushes
    --logtostderr[=true]: log to standard error instead of files
    --match-server-version[=false]: Require server version to match client version
    --namespace="": If present, the namespace scope for this CLI request.
    --password="": Password for basic authentication to the API server.
-s, --server="": The address and port of the Kubernetes API server
    --stderrthreshold=2: logs at or above this threshold go to stderr
    --token="": Bearer token for authentication to the API server.
    --user="": The name of the kubeconfig user to use
    --username="": Username for basic authentication to the API server.
    --v=0: log level for V logs
    --vmodule=: comma-separated list of pattern=N settings for file-filtered logging
```

SEE ALSO

- kubectl - kubectl controls the Kubernetes cluster manager

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