



# KPLABS Course

HashiCorp Certified: Consul Associate

Dynamic Application Configuration

ISSUED BY

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REPRESENTATIVE

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## Module 1: Overview of the Key-Value Store

Consul's simple key/value store, useful for storing service configuration or other metadata.

Key	Value
timeout	500
max_memory	128M
max_cpu	2

### Important Pointers for KV Store:

The KV store can be accessed by the consul kv CLI subcommands, HTTP API, and Consul UI.

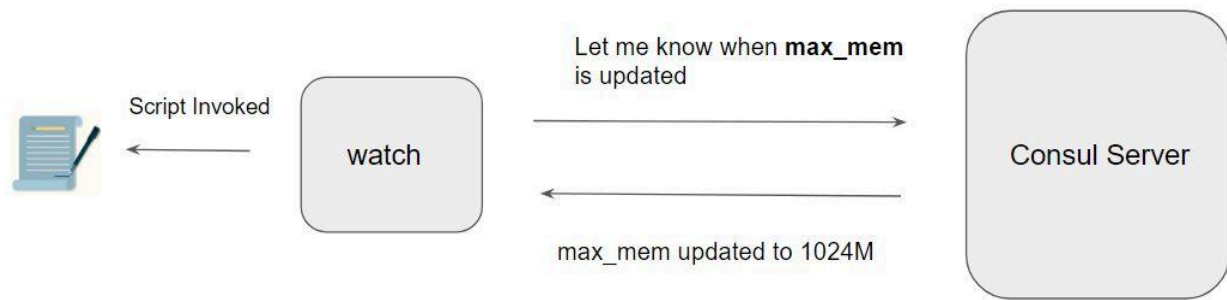
Objects are opaque to Consul, meaning there are no restrictions on the type of object stored in a key/value entry. The main restriction on an object is size - the maximum is 512 KB.

```
[root@consul-01 ~]# consul kv put max_memory 512M
Success! Data written to: max_memory
[root@consul-01 ~]# consul kv get max_memory
512M
```

## Module 2: Understanding Watches Functionality

Watches feature in Consul checks for changes made to the Consul key-value store.

When an update is detected, an external handler is invoked.

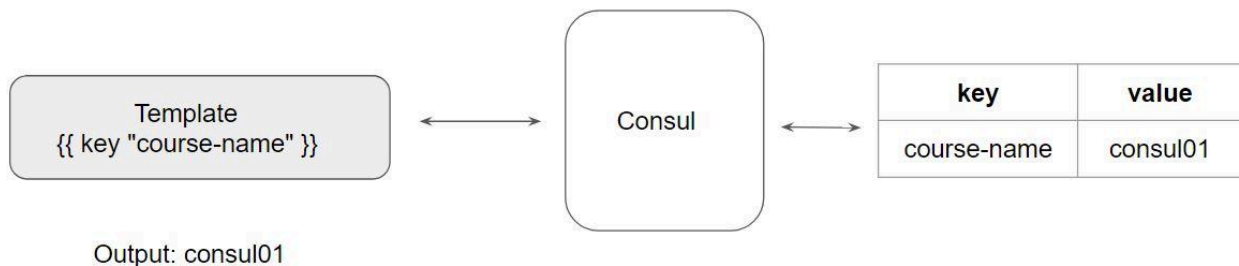


Watch functionality can watch for a wide variety of resources, these include:

- key
- keyprefix
- services
- nodes
- checks
- events

## Module 3: Consul Template

Consul Template queries a Consul instance and updates any number of specified templates on the filesystem



## Module 4: envconsul

Envconsul provides a convenient way to launch a subprocess with environment variables populated from HashiCorp Consul and Vault.

key	value
address	1.2.3.4
max_conns	5
port	80



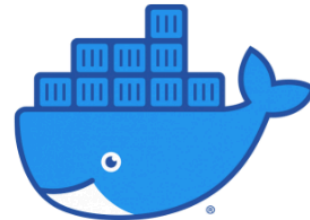
```
[root@ip-172-31-87-159 ~]# envconsul -prefix my-app env | egrep 'address|port|max_conns'
address=1.2.3.4
max_conns=5
port=80
```

The following diagram illustrates the high level workflow

key	value
address	1.2.3.4
max_conns	5
port	80



```
[root@ip-172-31-87-159 ~]# envconsul -prefix my-app env | egrep 'address|port|max_conns'
address=1.2.3.4
max_conns=5
port=80
```



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