

Consul Plugin

Plugin Information

View Consul [on the plugin site](#) for more information.

Consul plugin for reading services using consul service discovery and K/V store.

The plugin installs an agent, joins to the consul network, reads the necessary data and then leaves the network.

Features

- Retrieve consul service's ip / port
- Retrieve values from consul K/V store
- Set values to consul K/V store
- Install & join consul gossip network
- Filtering for service discovery (Healthy / Unhealthy / tagging)
- Using multiple consul networks within the same job

Settings

Consul installation

- Choose your installation name & version.
The executable will be auto downloaded & installed from hashicorp's repository.

Consul

Consul installations

Consul

Name

Install automatically ?

Install from hashicorp repo

Version

List of Consul installations on this system

Global configurations

Global settings configured using profiles for each environment / consul network.

Profile name - Name of the profile, will be used in the job configuration.

Masters list - Comma separated list of consul masters.

Datacenter - Consul datacenter to join (default is 'dc1' if not configured in consul installation).

Token - ACL token to join gossip network (leave empty if not needed).

Settings profile

Profile name ?

Masters list ?

Datacenter ?

Token ?

Delete

Settings profile ?

Profile name ?

Masters list ?

Datacenter ?

Token ?

Delete

Add ▾

Job configurations

Consul installation - Choose consul version (list of installations configured in Jenkins global configurations).

Settings profile - Choose which Consul settings profile you would like to use.

Consul operations

Retrieve value from K/V store

K/V path - Consul path for value retrieval.

Environment variable name - Env var to populate the value with.

Service discovery query

Service lookup name - Name of the service to lookup in Consul.

Add Port? - Adding the port after each IP in the response.

Health status - Healthy / Unhealthy / All - filtering for service lookup.

Service tag - Tagging filtering for service lookup.

Environment variable name - Env var to populate the CSV list of extracted IP addresses.

Set a value in K/V store

K/V path - Path in Consul to set the value.

value - Environment variable name that holds the value or any other static value to set in Consul.

Consul discovery

Consul Installation:

Settings profile:

Consul operations

Service discovery query

Service lookup name:

Add port?:

Health status:

Service tag:

Environment variable name:

Retrieve value from K/V store

K/V path:

Environment variable name:

Set a value in K/V store

K/V path:

value:

Add

Execute shell

Command: `echo ${aerospike}
echo ${dbIpAddress}`

Consul build step can be added multiple times within the same job. Each step can use different consul settings profile.

This gives the ability to query multiple consul clusters & query them in a single run.

Pipeline

Since version 2.0 the plugin supports pipeline.

Consul pipeline step will return JSON value with the required data.

Use the pipeline syntax tool (<https://your-jenkins-master-url/pipeline-syntax/>) to generate the code.

Sample Step:

Consul Installation:

Settings profile:

Consul operations

Service discovery query

Service lookup name:

Add port?:

Health status:

Service tag:

Environment variable name:

Retrieve value from K/V store

K/V path:

Environment variable name:

Set a value in K/V store

K/V path:

value:

Add

Pipeline job example

```
node {
  def consulJson = Consul consulSettingsProfileName:
  'inneractive', installationName: 'consul_0.7.1', operationList:
  [[${class: 'ConsulServiceDiscoveryOperation', addPort: true,
  healthStatus: 'Healthy', serviceName: 'aerospike', serviceTag: ''},
  [${class: 'ConsulGetKV', valuePath: 'db/main/ip'}], [${class:
  'ConsulSetKV', value: 'value', valuePath: 'test/consul/value'}]]
  echo consulJson
}
```

Pipeline response example:

```
{"ServiceDiscovery": {"aerospike": ["XXX.XXX.XXX.XXX:3000", "XXX.XXX.XXX.
XXX:3000", "XXX.XXX.XXX.XXX:3000"]}, "KeyValueStore": {"db/main/ip": "XXX.
XXX.XXX.XXX"}}
```

ToDo

ToDo list (2 issues)

T	Key	Summary	As signee	Re porter	P	S tatus	Re soluti on	C reated	U pdated	D ue
	JENKIN S-50463	JEP-200: UnsupportedOperationException: Refusing to marshal net.sf.json.JSONObject for security reasons	lioz nudel	Fred Vogt	⬆️	Op en	Unres olved	Mar 28, 2018	Mar 28, 2018	
	JENKIN S-44887	Add auto join consul network to EC2	lioz nudel	lioz nudel	⬇️	Op en	Unres olved	Jun 14, 2017	Jun 14, 2017	

2 issues

Changelog

Version 2.1 (July 26, 2017)

- Added feature for setting consul K/V store - [JENKINS-43330](#)

Version 2.0 (June 5, 2017)

- Global consul settings changed from single to multiple profiles
- Added pipeline support

Version 1.0 (April 4, 2017)

- Initial release