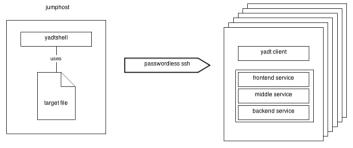


## cheat sheet 0.2 vaml files

http://www.vadt-project.org indented blocks have to start with 4 blanks. Do not use tabs. Example where blanks are marked as "...":



## concept



Using the yadtshell you can execute high level operations like updating a group of hosts. The only requirement is that the hosts are accessible via passwordless ssh and provide a vadt client.

# **Definition: Component URI**

{artefact|host|service}://<hostname>[/<name>[/<version>]]

artefact://hostname/web-application/0:1.23 host://hostname service://hostname/tomcat6

Components are **always** host-specific.

### **Brace Expansion**

artefact://{hostname01|hostname03}/myapp

### Range Expressions

host://hostname0[1..3]

### Wildcards

service://hostname/\*

## yadt.services (file)

The vadt client uses a *vaml file* named /etc/vadt.services

```
- frontend:
   needs services: [middleservice1]
   is frontservice: true
- middleservice1:
   needs services: [middleservice2]
- middleservice2:
   needs services: [backendservice]
- backendservice:
```

The service name must be equal to the corresponding name of the service script (as found in /etc/init.d).

is frontservice is a marker for the status overview. The status (shown in percentage) of the target will be calculated by determining how many frontservices are running.

needs\_services the services that have to be running before starting this service

The service definition may contain a component URI as string, which describes a service on another host, e.g.

- backendservice: ['service://hostname/servicename']

Please notice that this notation only allows the **hostname** not the full qualified domain name. Yadtshell extracts the hostname from the fqdn as the string until the first dot.

## target (file)

vadtshell uses a *vaml file* named *taraet* in the current working directory to define a vadt target (set of hosts), e.g.

### hosts:

- hostname1.spam.eggs
- hostname2.spam.eggs
- hostname\*.spammy.eggs
- hostname0[1..3].foo.bar

It is possible to group your hosts within a target:

#### hosts:

- hostname1.spam.eggs hostname2.spam.eggs
- hostname3.foo.bar hostname4.foo.bar

this will change the way the hosts will be displayed.

## view (file)

If you have a lot of hosts in a target you can use a *yaml-file* called view to configure the rendering of the status overview.

Place the view file together with the target file in the current working directory.

info-view: [matrix, color]

show status information in matrix matrix color display status in color maximum number of columns maxcols 3cols use three columns

## **Executing yadt commands**

*All* involved hosts have to be accessible via *passwordless* ssh.

### 1. Entering the vadtshell

Enter the vadtshell by calling

init-vadtshell

- activates autocompletion for component uris,
- allows to omit "yadtshell" when executing a yadtshell commands.

To restores your shell environment you can use **CTRL** + **D** or

deactivate

### 2. Using vadtshell as a command

Use the vadtshell command if you prefer to execute vadtshell commands without entering the yadtshell itself:

```
vadtshell [options] <command> [<component uri> ...]
```

verbose

-dryrun

will print logging, but without execution

same as dryrun

## Status Information

To retrieve the status of all services and artefacts versions from the current target use:

status

this will also perform **»info**«, which displays a summary of all services for each host within the current target:

info [--full]

shows complete information (artefacts of hosts, etc.) -full

To display low-level data of components (in yaml format) use

dump [uri-querv0 [uri-querv1 ...]]

additional arguments for dump:

- --attribute
- --show-pending-updates
- --show-current-artefacts

Example: dump info of all services.

dump service://

The output of info and dump is generated using cached data.

### **Hosts**

To prevent others from executing commands on a host it is possible to lock the host:

```
lock -m "message" [--force] <host uri> [<host uri> ...]
```

afterwards commands can only be executed by you, from the current target directory on the current host.

Example: lock the host »hostname01«.

lock -m "message" host://hostname01

Example: hijacking a lock from somebody else

lock -m "message" --force host://\*

Attention: when using the -m "message" option, the message should reflect the reason why you are doing what you are doing and include your name as well:

lock -m "Need this host. [Michael]" host://hostname31

To release a lock use:

unlock <host uri> [<host uri] ...]</pre>

Example: realase all of your locks on all target hosts.

unlock host://\*

## **Services**

If a service is currently out of order you can *ignore* the state of a service (e.g. assume all operations on that service are successful):

```
ignore -m "message" <service uri> [<service uri> ...]
```

Example: ignore all nagios checks, since the nagios server is down.

```
ignore -m "nagios server is down" service://*/nagios
```

To *uniquore* services on host use:

```
unignore <service uri> [<service uri> ...]
```

To start a service, regarding its dependencies, use:

```
start <service uri> [<service uri> ...]
```

Example: start all services.

start service://\*

To stop a service and all services depending on the service:

```
stop <service uri> [<service uri> ...]
```



When stopping a service all services depending on this service will be stopped as well. But starting the service will **not** start the services depending on the service again.

## **Artefacts**

To install updates (if there are any) and stop/start the defined services use:

```
update <host uri> [<host uri> ...] [-p <number>]
```

If you only want to update artefacts without restarting services use updateartefact. Take care when using this command: it is ignoring all service dependencies.

updateartefact <artefact\_uri> [<artefact\_uri> ...]

