

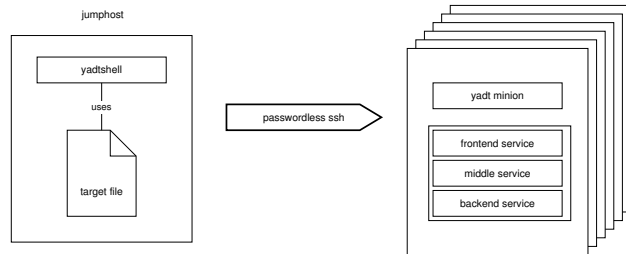


# yadt 1.8

cheat sheet 0.3

<http://www.yadt-project.org/>

## Concept



Using the yadshell 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 yadt client.

## Definition: Component URI

```

host://<hostname>
service://<hostname>/<name>
artefact://<hostname>/<name>/<version>

```

### Examples

```

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

```

Components are *always* host-specific.

## Brace Exception

```
artefact://{hostname01|hostname03}/myapp
```

## Range Expression

```
host://hostname0[1..3]
```

## Wildcards

```
service://hostname/*
```

## yadt.conf.d (directory)

The yadt minion gets configured via \*.yaml files in /etc/yadt.conf.d; they get merged in alphanumeric order. *Keep in mind*: Indented blocks have to start with 4 blanks. Do not use tabs.

```

services:
  frontend:
    needs_services:_[middleservice1]
    is_frontservice:_true
  middleservice1:
    needs_services:_[middleservice2]

```

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 (reverse for stopping)

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

```
needs_services: [ 'service://hostname/servicename' ]
```

Please note that this notation only allows the *hostname*, not the full qualified domain name. Yadshell extracts the hostname from the fqdn as the string until the first dot. Please see the *Merging configuration* section for more information.

## target (file)

yadshell uses a yaml file named target in the current working directory to define a yadt 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]
```

**matrix** show status information in matrix

**color** display status in color

**maxcols** maximum number of columns

**3cols** use three columns

## Executing yadt commands

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

### 1. Entering the yadshell

Enter the yadshell by calling

```
init-yadshell
```

- activates autocompletion for component uris,
- allows to omit `yadshell` when executing a yadshell commands.

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

```
deactivate
```

### 2. Using yadshell as a command

Use the `yadshell` command if you prefer to execute yadshell commands without entering the yadshell itself:

```
yadshell [options] <command> [<uri> ...]
```

**-v** verbose

**-dryrun** no actions executed (just logging)

**-n** 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]
```

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

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

```
dump [uri-query0 [uri-query1 ...]]
```

additional arguments for `dump`:

**-attribute**

**-show-pending-updates**

**-show-current-artefacts**

*Example:* dump info of all services.

```
dump service://
```

*Note:* 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> ...]
```

*Example:* release all of your locks on all target hosts.

```
unlock host://*
```

## Services

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> ...]
```

*Keep in mind:* 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. 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 unignore services on host use:

```
unignore <service_uri> [<service_uri> ...]
```

## Artefacts

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

```
update <host_uri> [<host_uri> &Agrave] [--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> [...]
```



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