



Best practices

Pre-deploying large service packages onto compute hosts without impacting workload

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Introduction

Some sets of service packages that customers deploy may be shared, and up to ~500MB each in size. The total application package size can be 10 Gb. So, in some cases, it would be advantageous to pre-deploy service packages to the cluster. Since full deployment of service packages may take several hours, pre-deployment provides an easy way to ensure that most hosts are provisioned prior to starting the application. In addition, this deployment should not use workload slots since the deployment operation will be network bound and other workload can make use of the free slots. The `<soamdeploy push>` command is designed for this purpose.

How to pre-deploy service packages

The CLI `<soamdeploy>` has a sub-command “push” option for a specified service package. This push option will run a remote command on all target hosts. This remote command will download service packages onto hosts that are running unrelated workload without using workload slots. It will conditionally download the specified service package and any dependencies that have not yet been downloaded. Large packages can be pre-deployed during off hours to avoid reducing network bandwidth for other users. The administrator must first run the “soamdeploy add” command to add the package to the Repository Server prior to running “soamdeploy push”.

Tips for using `<soamdeploy push>`

How to use `<soamdeploy push>`:

```
soamdeploy push -h
```

```
Usage: soamdeploy push [-h|-V]
```

```
soamdeploy push package_name -c package_consumer_ID [[-r resource_group]
| [-C deploy_consumer_ID -r resource_group]] [-t host_name] [-T timeout] [-l
limit] [-b] [-u user_name] [-x password]
```

- -c: Consumer ID assigned to package
- -r: Target resource group, push to all hosts if -r or -t not specified
- -C: Consumer ID to get slots to run remote deploy command, -r is required if -C specified
- -t: Target host
- -T: Timeout in seconds per host for package installation, default is no timeout
- -l: Maximum concurrent hosts actively downloading and installing packages, default is 4

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