
RHUI3-automation Documentation

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CHAPTER 1

Atomic Client Tests

Atomic client tests (RHEL 7+ only)

```
class rhui3_tests.test_atomic_client.TestClient
    class for Atomic client tests

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    static test_01_initial_run()
        log in to RHUI

    static test_02_add_cds()
        add a CDS

    static test_03_add_hap()
        add an HAProxy Load-balancer

    static test_04_upload_atomic_cert()
        upload the Atomic cert

    test_05_add_atomic_repo()
        add the RHEL Atomic Host (Trees) from RHUI repo

    test_06_start_atomic_repo_sync()
        start syncing the repo

    test_07_generate_atomic_cert()
        generate an entitlement certificate for the repo

    static test_08_create_atomic_pkg()
        create an Atomic client configuration package

    test_09_wait_for_sync()
        wait until the repo is synced (takes a while)
```

```
static test_10_install_atomic_pkg ()  
    install the Atomic client configuration package on the Atomic host  
  
test_11_sync_again ()  
    sync the repo again (workaround for RHBZ#1427190)  
  
static test_12_wait_for_pulp_tasks ()  
    wait until the repo publish task is complete (takes extra time)  
  
test_13_pull_atomic_content ()  
    pull Atomic content  
  
test_14_check_fetched_file ()  
    check if the repo data was fetched on the client  
  
static test_15_check_registry_config ()  
    check if container registry configuration was modified  
  
test_99_cleanup ()  
    remove the repo and RH cert, uninstall CDS and HAProxy, delete the ostree configuration
```

CHAPTER 2

Atomic Host Checks

Atomic Host Checks

`rhui3_tests.test_atomic_host_checks.setup()`
announce the beginning of the test run

`rhui3_tests.test_atomic_host_checks.teardown()`
announce the end of the test run

`rhui3_tests.test_atomic_host_checks.test_01_check_version()`
check if the Atomic host is running the latest documented version

CDS Management Tests

CDS management tests

```
rhui3_tests.test_cds.setup()  
    announce the beginning of the test run  
  
rhui3_tests.test_cds.teardown()  
    announce the end of the test run  
  
rhui3_tests.test_cds.test_01_initial_run()  
    log in to RHUI  
  
rhui3_tests.test_cds.test_02_list_empty_cds()  
    check if there are no CDSs  
  
rhui3_tests.test_cds.test_03_add_cds()  
    add all known CDSs  
  
rhui3_tests.test_cds.test_04_list_cds()  
    list CDSs, expect as many as there are in /etc/hosts  
  
rhui3_tests.test_cds.test_05_readd_cds()  
    add one of the CDSs again (reapply the configuration)  
  
rhui3_tests.test_cds.test_06_list_cds()  
    check if the CDSs are still tracked  
  
rhui3_tests.test_cds.test_07_delete_nonexisting_cds()  
    try deleting an untracked CDS, should be rejected (by rhui3_tests_lib)  
  
rhui3_tests.test_cds.test_08_delete_cds()  
    delete all CDSs  
  
rhui3_tests.test_cds.test_09_list_cds()  
    list CDSs, expect none  
  
rhui3_tests.test_cds.test_10_check_cleanup()  
    check if Apache was stopped and the remote file system unmounted on all CDSs
```

`rhui3_tests.test_cds.test_11_add_cds_uppercase()`
add (and delete) a CDS with uppercase characters

`rhui3_tests.test_cds.test_12_delete_unreachable()`
add a CDS, make it unreachable, and see if it can still be deleted from the RHUA

`rhui3_tests.test_cds.test_13_delete_select_0()`
add a CDS and see if no issue occurs if it and “a zeroth” (ghost) CDSs are selected for deletion

`rhui3_tests.test_cds.test_14_verbose_reporting()`
check if a failure is reported properly (if puppet is verbose)

CDS Management Tests for the CLI

CDS management tests for the CLI

```
rhui3_tests.test_cds_cmd.setup()  
    announce the beginning of the test run  
  
rhui3_tests.test_cds_cmd.teardown()  
    announce the end of the test run  
  
rhui3_tests.test_cds_cmd.test_01_init()  
    log in to RHUI  
  
rhui3_tests.test_cds_cmd.test_02_list_cds()  
    check if there are no CDSs  
  
rhui3_tests.test_cds_cmd.test_03_add_cds()  
    add all known CDSs  
  
rhui3_tests.test_cds_cmd.test_04_list_cds()  
    check if the CDSs have been added  
  
rhui3_tests.test_cds_cmd.test_05_reinstall_cds()  
    add one of the CDSs again by reinstalling it  
  
rhui3_tests.test_cds_cmd.test_06_list_cds()  
    check if the CDSs are still tracked, and nothing extra has appeared  
  
rhui3_tests.test_cds_cmd.test_07_readd_cds_noforce()  
    check if rhui refuses to add a CDS again if no extra parameter is used  
  
rhui3_tests.test_cds_cmd.test_08_list_cds()  
    check if nothing extra has been added  
  
rhui3_tests.test_cds_cmd.test_09_readd_cds()  
    add one of the CDSs again by using force  
  
rhui3_tests.test_cds_cmd.test_10_list_cds()  
    check if the CDSs are still tracked, and nothing extra has appeared
```

`rhui3_tests.test_cds_cmd.test_11_delete_cds_noforce()`
check if rhui refuses to delete the node when it's the only/last one and force isn't used

`rhui3_tests.test_cds_cmd.test_12_list_cds()`
check if the last CDS really hasn't been deleted

`rhui3_tests.test_cds_cmd.test_13_delete_cds_force()`
delete the last CDS forcibly

`rhui3_tests.test_cds_cmd.test_14_list_cds()`
check if the last CDS has been deleted

`rhui3_tests.test_cds_cmd.test_15_add_bad_cds()`
try adding an incorrect CDS hostname, expect trouble and nothing added

`rhui3_tests.test_cds_cmd.test_16_delete_bad_cds()`
try deleting a non-existing CDS hostname, expect trouble

`rhui3_tests.test_cds_cmd.test_17_add_cds_changed_case()`
add and delete a CDS with uppercase characters, should work

`rhui3_tests.test_cds_cmd.test_18_add_safe_unknown_key()`
try adding a CDS whose SSH key is unknown, without using `-unsafe`; should fail

`rhui3_tests.test_cds_cmd.test_19_add_safe_known_key()`
add and delete a CDS whose SSH key is known, without using `-unsafe`; should work

`rhui3_tests.test_cds_cmd.test_20_delete_unreachable()`
add a CDS, make it unreachable, and see if it can still be deleted from the RHUA

`rhui3_tests.test_cds_cmd.test_21_check_cleanup()`
check if Apache was stopped and the remote file system unmounted on all CDSs

`rhui3_tests.test_cds_cmd.test_22_verbose_reporting()`
check if a failure is reported properly (if puppet is run with `-verbose`)

CDS-HAProxy Interoperability Tests

CDS-HAProxy Interoperability Tests

```
rhui3_tests.test_cds_hap_interop.setup()  
    announce the beginning of the test run  
  
rhui3_tests.test_cds_hap_interop.teardown()  
    announce the end of the test run  
  
rhui3_tests.test_cds_hap_interop.test_01_login_add_hap()  
    log in to RHUI, add an HAProxy Load-balancer  
  
rhui3_tests.test_cds_hap_interop.test_02_add_first_cds()  
    [TUI] add the first CDS  
  
rhui3_tests.test_cds_hap_interop.test_03_check_haproxy_cfg()  
    check if the first CDS was added to the HAProxy configuration file  
  
rhui3_tests.test_cds_hap_interop.test_04_add_second_cds()  
    [TUI] add the second CDS  
  
rhui3_tests.test_cds_hap_interop.test_05_check_haproxy_cfg()  
    check if the second CDS was added to the HAProxy configuration file  
  
rhui3_tests.test_cds_hap_interop.test_06_delete_second_cds()  
    [TUI] delete the second CDS  
  
rhui3_tests.test_cds_hap_interop.test_07_check_haproxy_cfg()  
    check if the second CDS (and only it) was deleted from the HAProxy configuration file  
  
rhui3_tests.test_cds_hap_interop.test_08_delete_first_cds()  
    [TUI] delete the first CDS  
  
rhui3_tests.test_cds_hap_interop.test_09_check_haproxy_cfg()  
    check if the first CDS was deleted from the HAProxy configuration file  
  
rhui3_tests.test_cds_hap_interop.test_10_add_first_cds()  
    [CLI] add the first CDS
```

```
rhui3_tests.test_cds_hap_interop.test_11_check_haproxy_cfg()  
    check if the first CDS was added to the HAProxy configuration file  
rhui3_tests.test_cds_hap_interop.test_12_add_second_cds()  
    [CLI] add the second CDS  
rhui3_tests.test_cds_hap_interop.test_13_check_haproxy_cfg()  
    check if the second CDS was added to the HAProxy configuration file  
rhui3_tests.test_cds_hap_interop.test_14_delete_second_cds()  
    [CLI] delete the second CDS  
rhui3_tests.test_cds_hap_interop.test_15_check_haproxy_cfg()  
    check if the second CDS (and only it) was deleted from the HAProxy configuration file  
rhui3_tests.test_cds_hap_interop.test_16_delete_first_cds()  
    [CLI] delete the first CDS  
rhui3_tests.test_cds_hap_interop.test_17_check_haproxy_cfg()  
    check if the first CDS was deleted from the HAProxy configuration file  
rhui3_tests.test_cds_hap_interop.test_99_cleanup()  
    delete the HAProxy Load-balancer
```

Client Management Tests

Client management tests

```
class rhui3_tests.test_client_management.TestClient
    class for client tests

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    static test_01_init()
        log in to RHUI

    static test_02_upload_rh_certificate()
        upload a new or updated Red Hat content certificate

    static test_03_add_cds()
        add a CDS

    static test_04_add_hap()
        add an HAProxy Load-balancer

    test_05_add_upload_sync_stuff()
        add a custom and RH content repos to protect by a cli entitlement cert, upload rpm, sync

    test_06_generate_ent_cert()
        generate an entitlement certificate

    static test_07_create_cli_rpm()
        create a client configuration RPM from the entitlement certificate

    static test_08_ensure_gpgcheck_conf()
        ensure that GPG checking is enabled in the client configuration

    static test_09_check_cli_cert_sig()
        check if SHA-256 is used in the client certificate signature
```

```
static test_10_install_conf_rpm()  
    install the client configuration RPM  
  
test_11_check_repo_sync_status()  
    check if RH repos have been synced so RPMs can be installed from them  
  
test_12_inst_rpm_custom_repo()  
    install an RPM from the custom repo  
  
test_13_inst_rpm_rh_repo()  
    install an RPM from the RH repo  
  
test_14_unauthorized_access()  
    verify that RHUI repo content cannot be fetched without an entitlement certificate  
  
test_15_check_cli_plugins()  
    check if irrelevant Yum plug-ins are not enabled on the client with the config RPM  
  
static test_16_release_handling()  
    check EUS release handling (working with /etc/yum/vars/releasever on the client)  
  
static test_17_legacy_ca()  
    check for bogus error messages if a legacy CA is used  
  
test_99_cleanup()  
    remove repos, certs, cli rpms; remove rpms from cli, uninstall cds, hap
```


RHUI CLI tests

```
class rhui3_tests.test_cmdline.TestCLI
    class for CLI tests

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    static test_01_init_repo_check()
        log in to RHUI, check if the repo list is empty

    static test_02_create_custom_repos()
        create three custom repos for testing

    static test_03_custom_repo_checks()
        check if the custom repo cannot be added twice and if the GPG key path is validated

    static test_04_check_custom_repos()
        check if the custom repos were actually created

    static test_05_upload_local_rpms()
        upload content from a local directory to one of the custom repos

    test_06_upload_remote_rpms()
        upload content from remote servers to the custom repos

    test_07_check_packages()
        check that the uploaded packages are now in the repos

    static test_08_upload_certificate()
        upload the Atomic (the small) entitlement certificate

    test_09_check_certificate_info()
        check certificate info for validity
```

```
static test_10_check_certificate_exp()
    check if the certificate expiration date is OK

test_11_check_unused_product()
    check if a repo is available

test_12_add_rh_repo_by_id()
    add a Red Hat repo by its ID

test_13_add_rh_repo_by_product()
    add a Red Hat repo by its product name

test_14_repo_list()
    check the added repos

test_15_start_syncing_repo()
    sync one of the repos

test_16_repo_info()
    verify that the repo name is part of the information about the specified repo ID

test_17_check_package_in_repo()
    check a random package in the repo

test_18_list_labels()
    check repo labels

test_19_generate_certificate()
    generate an entitlement certificate

static test_20_check_cli.crt_sig()
    check if SHA-256 is used in the client certificate signature

test_21_check_stray_custom_repo()
    check if only the wanted repos are in the certificate

static test_22_create_cli_config.rpm()
    create a client configuration RPM

test_23_ensure_gpgcheck_config()
    ensure that GPG checking is configured in the client configuration as expected

static test_24_ensure_proxy_config()
    ensure that the proxy setting is used in the client configuration

static test_25_custom_repo_used()
    check if the protected custom repo is included in the client configuration

test_26_create_acs_config.rpm()
    create an alternate content source configuration RPM

static test_27_upload_expired_cert()
    check expired certificate handling

static test_28_upload_incompat_cert()
    check incompatible certificate handling

test_29_register_system()
    register the system in RHSM, attach the RHUI subscription

static test_30_fetch_available_pool()
    fetch the available pool ID
```

static test_31_register_subscription()
register the subscription using the fetched pool ID

static test_32_fetch_registered_pool()
fetch the registered pool ID

static test_33_compare_pools()
check if the previously available and now registered pool IDs are the same

test_34_check_reg_pool_for_rhui()
check if the registered subscription's description is RHUI for CCSP

static test_35_unregister_subscription()
remove the subscription from RHUI

static test_36_unregister_system()
unregister the system from RHSM

test_37_resync_repo()
sync the repo again

static test_38_resync_no_warning()
check if the syncs did not cause known unnecessary warnings

static test_39_list_repos()
get a list of available repos for further examination

static test_40_check_iso_repos()
check if non-RPM repos were ignored

static test_41_check_pygiwarning()
check if PyGIWarning was not issued

test_42_check_repo_sorting()
check if repo lists are sorted

test_43_upload_semi_bad_cert()
check that a partially invalid certificate can still be accepted

static test_44_upload_empty_cert()
check that an empty certificate is rejected (no traceback)

test_45_multi_repo_product()
check that all repos in a multi-repo product get added

test_99_cleanup()
cleanup: remove repos and temporary files

Comps XML (Yum Package Groups) Tests

Comps XML (Yum Package Groups) Tests

```
class rhui3_tests.test_comps.TestCompsXML
    class to test comps XML handling

    static setup_class ()
        announce the beginning of the test run

    static teardown_class ()
        announce the end of the test run

    static test_01_setup ()
        log in to RHUI, ensure CDS & HAProxy nodes have been added

    test_02_add_repos ()
        create custom repos for testing

    test_03_add_comps ()
        import comps XML files to the repos

    test_04_create_cli_config_rpms ()
        create client configuration RPMs for the repos

    test_05_install_conf_rpm ()
        install the 1st client configuration RPM on the client

    test_06_check_groups ()
        compare client's available groups with the 1st original comps file, check a test group

    test_07_check_test_package ()
        check if the client can see the 1st test package as available in group information

    test_08_install_conf_rpm ()
        replace the 1st client configuration RPM with the 2nd one on the client

    test_09_check_groups ()
        compare client's available groups with the 2nd original comps file, check a test group
```

```
test_10_check_test_package ()  
    check if the client can see the 2nd test package as available in group information  
  
test_11_check_langpacks ()  
    check available langpacks in the processed comps files  
  
test_12_additional_group ()  
    import a comps file containing one more group and expect the group to be added  
  
static test_13_big_comps ()  
    import comps for the (big) RHEL 7Server repo and check if all its groups get processed  
  
static test_14_empty_comps ()  
    import a comps file containing no group and expect no problem and no repodata refresh  
  
static test_15_gzip ()  
    try using a compressed comps XML file, should be handled well  
  
static test_16_wrong_input_files ()  
    try using an invalid XML file and a file with an invalid extension  
  
test_17_wrong_repo ()  
    try using an invalid repository ID  
  
test_99_cleanup ()  
    clean up
```

Container Management Tests

Container Management Tests

```
class rhui3_tests.test_containers.TestClient
    class for container tests

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    static test_01_init()
        log in to RHUI

    static test_02_add_cds()
        add a CDS

    static test_03_add_hap()
        add an HAProxy Load-balancer

    test_04_add_containers()
        add containers

    test_05_display_info()
        check detailed information on the RH container

    test_06_sync_containers()
        sync the containers

    static test_07_create_cli_rpm()
        create a client configuration RPM

    test_08_install_cli_rpm()
        install the client configuration RPM

    test_09_pull_image()
        pull the container image
```

test_10_check_images()

check if the container images are now available

test_11_run_command()

run a test command (uname) in the RH container

test_99_cleanup()

remove the containers from the client and the RHUA, uninstall HAProxy and CDS

Entitlement Management Tests

Entitlement management tests

```
class rhui3_tests.test_entitlements.TestEntitlement
    class for entitlement tests

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    static test_01_initial_run()
        log in to RHUI

    static test_02_list_rh_entitlements()
        list Red Hat content certificate entitlements

    static test_03_list_cus_entitlements()
        list custom content certificate entitlements, expect none

    static test_04_upload_rh_certificate()
        upload a new or updated Red Hat content certificate

    static test_05_list_rh_entitlements()
        list Red Hat content certificate entitlements

    static test_06_add_custom_repo()
        add a custom repo to protect by a client entitlement certificate

    static test_07_list_cust_entitlements()
        list custom content certificate entitlements, expect one

    static test_08_remove_custom_repo()
        remove the custom repo

    static test_09_list_cust_entitlements()
        list custom content certificate entitlements, expect none
```

```
static test_10_remove_certificates ()  
    clean up uploaded entitlement certificates  
  
static test_11_upload_exp_cert ()  
    upload an expired certificate, expect a proper refusal  
  
static test_12_upload_incompat_cert ()  
    upload an incompatible certificate, expect a proper refusal  
  
static test_13_upload_semi_bad_cert ()  
    upload a certificate containing a mix of valid and invalid repos  
  
static test_14_remove_semi_bad_cert ()  
    remove the certificate  
  
static test_15_upload_nonexist_cert ()  
    try uploading a certificate file that does not exist, should be handled gracefully  
  
static test_16_upload_empty_cert ()  
    upload a certificate that contains no entitlements
```

EUS Tests (for the CLI)

EUS Tests (for the CLI)

```
class rhui3_tests.test_eus_cmd.TestEUSCLI
    class to test EUS repos via the CLI

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    static test_01_initial_run()
        log in to RHUI

    static test_02_add_cds()
        add a CDS

    static test_03_add_hap()
        add an HAProxy Load-Balancer

    static test_04_upload_certificate()
        upload an entitlement certificate

    test_05_add_repo()
        add the tested repo

    test_06_sync_repo()
        sync the repo

    test_08_create_cli_config_rpm()
        create an entitlement certificate and a client configuration RPM (in one step)

    static test_09_install_conf_rpm()
        install the client configuration RPM

    test_10_set_eus_release()
        set the tested EUS release in Yum configuration
```

```
test_11_check_package_url ()  
    check if Yum is now working with the EUS URL  
  
test_12_install_test_rpm ()  
    install the test package (from the test repo)  
  
test_99_cleanup ()  
    clean up
```

Custom GPG Key Verification Tests

Tests for working with a custom GPG key in a custom repo

```
rhui3_tests.test_gpg.setup()
    announce the beginning of the test run

rhui3_tests.test_gpg.teardown()
    announce the end of the test run

rhui3_tests.test_gpg.test_01_initial_run()
    log in to RHUI

rhui3_tests.test_gpg.test_02_add_cds()
    add a CDS

rhui3_tests.test_gpg.test_03_add_hap()
    add an HAProxy Load-balancer

rhui3_tests.test_gpg.test_04_create_custom_repo()
    add a custom repo using a custom GPG key

rhui3_tests.test_gpg.test_05_upload_to_custom_repo()
    upload an unsigned and two differently signed packages to the custom repo

rhui3_tests.test_gpg.test_06_display_detailed_info()
    check detailed information on the repo

rhui3_tests.test_gpg.test_07_generate_ent_cert()
    generate an entitlement certificate

rhui3_tests.test_gpg.test_08_create_cli_rpm()
    create a client configuration RPM

rhui3_tests.test_gpg.test_09_install_conf_rpm()
    install the client configuration RPM

rhui3_tests.test_gpg.test_10_install_signed_pkg()
    install the signed package from the custom repo (will import the GPG key)
```

```
rhui3_tests.test_gpg.test_11_check_gpg_sig()  
    check the signature in the installed package  
rhui3_tests.test_gpg.test_12_check_gpg_pubkey()  
    check if the public GPG key was imported  
rhui3_tests.test_gpg.test_13_install_unsigned_pkg()  
    try installing the unsigned package, should not work  
rhui3_tests.test_gpg.test_14_install_2nd_signed_pkg()  
    try installing the package signed with the key unknown to the client, should not work  
rhui3_tests.test_gpg.test_99_cleanup()  
    clean up
```

HAProxy Management Tests

HAProxy management tests

```
rhui3_tests.test_hap.setup()  
    announce the beginning of the test run  
  
rhui3_tests.test_hap.teardown()  
    announce the end of the test run  
  
rhui3_tests.test_hap.test_01_initial_run()  
    log in to RHUI  
  
rhui3_tests.test_hap.test_02_list_empty_hap()  
    check if there are no HAProxy Load-balancers  
  
rhui3_tests.test_hap.test_03_add_hap()  
    add an HAProxy Load-balancer  
  
rhui3_tests.test_hap.test_04_list_hap()  
    check if the HAProxy Load-balancer was added  
  
rhui3_tests.test_hap.test_05_readd_hap()  
    add the HAProxy Load-balancer again (reapply the configuration)  
  
rhui3_tests.test_hap.test_06_list_hap()  
    check if the HAProxy Load-balancer is still tracked  
  
rhui3_tests.test_hap.test_07_delete_nonexisting_hap()  
    try deleting an untracked HAProxy Load-balancer, should be rejected (by rhui3_tests_lib)  
  
rhui3_tests.test_hap.test_08_delete_hap()  
    delete the HAProxy Load-balancer  
  
rhui3_tests.test_hap.test_09_list_hap()  
    list HAProxy Load-balancers again, expect none  
  
rhui3_tests.test_hap.test_10_check_cleanup()  
    check if the haproxy service was stopped
```

```
rhui3_tests.test_hap.test_11_add_hap_uppercase()  
    add (and delete) an HAProxy Load-balancer with uppercase characters  
  
rhui3_tests.test_hap.test_12_delete_unreachable()  
    add a Load-balancer, make it unreachable, and see if it can still be deleted from the RHUA  
  
rhui3_tests.test_hap.test_13_delete_select_0()  
    add an LB and see if no issue occurs if it and “a zeroth” (ghost) LBs are selected for deletion
```

HAProxy Management Tests for the CLI

HAProxy management tests for the CLI

```
rhui3_tests.test_hap_cmd.setup()  
    announce the beginning of the test run  
  
rhui3_tests.test_hap_cmd.teardown()  
    announce the end of the test run  
  
rhui3_tests.test_hap_cmd.test_01_init()  
    log in to RHUI  
  
rhui3_tests.test_hap_cmd.test_02_list_hap()  
    check if there are no HAProxy Load-balancers  
  
rhui3_tests.test_hap_cmd.test_03_add_hap()  
    add an HAProxy Load-balancer  
  
rhui3_tests.test_hap_cmd.test_04_list_hap()  
    check if the HAProxy Load-balancer has been added  
  
rhui3_tests.test_hap_cmd.test_05_reinstall_hap()  
    add the HAProxy Load-balancer again by reinstalling it  
  
rhui3_tests.test_hap_cmd.test_06_list_hap()  
    check if the HAProxy Load-balancer is still tracked, and only once  
  
rhui3_tests.test_hap_cmd.test_07_readd_hap_noforce()  
    check if rhui refuses to add the HAProxy Load-balancer again if no extra parameter is used  
  
rhui3_tests.test_hap_cmd.test_08_list_hap()  
    check if nothing extra has been added  
  
rhui3_tests.test_hap_cmd.test_09_readd_hap()  
    add the HAProxy Load-balancer again by using force  
  
rhui3_tests.test_hap_cmd.test_10_list_hap()  
    check if the HAProxy Load-balancer is still tracked, and only once
```

```
rhui3_tests.test_hap_cmd.test_11_delete_hap_noforce()
    check if rhui refuses to delete the node when it's the only/last one and force isn't used

rhui3_tests.test_hap_cmd.test_12_list_hap()
    check if the HAProxy Load-balancer really hasn't been deleted

rhui3_tests.test_hap_cmd.test_13_delete_hap_force()
    delete the HAProxy Load-balancer forcibly

rhui3_tests.test_hap_cmd.test_14_list_hap()
    check if the HAProxy Load-balancer has been deleted

rhui3_tests.test_hap_cmd.test_15_add_bad_hap()
    try adding an incorrect HAProxy hostname, expect trouble and nothing added

rhui3_tests.test_hap_cmd.test_16_delete_bad_hap()
    try deleting a non-existing HAProxy hostname, expect trouble

rhui3_tests.test_hap_cmd.test_17_add_hap_changed_case()
    add and delete an HAProxy Load-balancer with uppercase characters, should work

rhui3_tests.test_hap_cmd.test_18_add_safe_unknown_key()
    try adding the Load-balancer when its SSH key is unknown, without using -unsafe; should fail

rhui3_tests.test_hap_cmd.test_19_add_safe_known_key()
    add and delete the Load-balancer when its SSH key is known, without using -unsafe; should work

rhui3_tests.test_hap_cmd.test_20_delete_unreachable()
    add a Load-balancer, make it unreachable, and see if it can still be deleted from the RHUA

rhui3_tests.test_hap_cmd.test_21_check_cleanup()
    check if the haproxy service was stopped
```

Repo Management Tests

Repository management tests

```
class rhui3_tests.test_repo_management.TestRepo
    class for repository manipulation tests

    static setup_class ()
        announce the beginning of the test run

    static teardown_class ()
        announce the end of the test run

    static test_01_repo_setup ()
        log in to RHUI, upload cert, check if no repo exists

    static test_02_create_3_custom_repos ()
        create 3 custom repos (protected, unprotected, no RH GPG check)

    static test_03_check_custom_repo_list ()
        check if the repolist contains the 3 custom repos

    static test_04_repo_id_uniqueness ()
        verify that rhui-manager refuses to create a custom repo whose name already exists

    test_05_upload_local_rpms ()
        upload rpms from a local directory to a custom repo

    test_06_upload_remote_rpms ()
        upload rpms from remote servers to custom repos

    test_07_check_for_package ()
        check package lists

    test_08_display_custom_repos ()
        check detailed information on the custom repos

    test_09_add_rh_repo_by_repo ()
        add a Red Hat repo by its name
```

```
test_10_display_rh_repo()  
    check detailed information on the Red Hat repo  
  
test_11_delete_one_repo()  
    remove the Red Hat repo  
  
test_12_add_rh_repo_by_product()  
    add a Red Hat repo by the product that contains it, remove it  
  
static test_13_add_all_rh_repos()  
    add all Red Hat repos, remove them (takes a lot of time!)  
  
test_14_add_containers()  
    add containers  
  
test_15_display_container()  
    check detailed information on the RH container  
  
static test_16_delete_containers()  
    delete the containers  
  
static test_17_missing_cert_handling()  
    check if rhui-manager can handle the loss of the RH cert  
  
static test_18_repo_select_0()  
    check if no repo is chosen if 0 is entered when adding a repo
```

Various RHUI Related Repository Tests

Tests for RHUI 3 repos and EUS listings

```
rhui3_tests.test_rhui_3_repos.setup()  
    announce the beginning of the test run
```

```
rhui3_tests.test_rhui_3_repos.teardown()  
    announce the end of the test run
```

```
rhui3_tests.test_rhui_3_repos.test_01_install_wget()  
    make sure wget is installed on the RHUA
```

```
rhui3_tests.test_rhui_3_repos.test_02_rhui_3_for_rhel_7_check()  
    check if the RHUI 3 packages for RHEL 7 are available
```

```
rhui3_tests.test_rhui_3_repos.test_03_eus_6_repos_check()  
    check if all supported RHEL 6 EUS versions are available
```

```
rhui3_tests.test_rhui_3_repos.test_04_eus_7_repos_check()  
    check if all supported RHEL 7 EUS versions are available
```


CHAPTER 17

Security Tests

Various Security Tests

```
rhui3_tests.test_security.setup()
    announce the beginning of the test run

rhui3_tests.test_security.teardown()
    announce the end of the test run

rhui3_tests.test_security.test_01_login_add_cds_hap()
    log in to RHUI, add CDS and HAProxy nodes

rhui3_tests.test_security.test_02_puppet()
    check protocols allowed by Puppet on the RHUA

rhui3_tests.test_security.test_03_https_rhua()
    check protocols allowed by Apache on the RHUA

rhui3_tests.test_security.test_04_https_cds()
    check protocols allowed by Apache on the CDS nodes

rhui3_tests.test_security.test_05_crane_cds()
    check protocols allowed by Crane on the CDS nodes

rhui3_tests.test_security.test_06_haproxy_stats()
    check haproxy stats

rhui3_tests.test_security.test_99_cleanup()
    delete CDS and HAProxy nodes
```


CHAPTER 18

Sosreport Tests

Test case for sosreport usage in RHUI

```
rhui3_tests.test_sosreport.setup()  
    announce the beginning of the test run  
  
rhui3_tests.test_sosreport.teardown()  
    announce the end of the test run  
  
rhui3_tests.test_sosreport.test_00_rhui_init()  
    add a CDS and run rhui-subscription-sync to ensure their log files exist  
  
rhui3_tests.test_sosreport.test_01_rhua_check_sos_script()  
    check if the RHUI sosreport script is available on the RHUA node  
  
rhui3_tests.test_sosreport.test_02_rhua_sosreport_run()  
    run sosreport on the RHUA node  
  
rhui3_tests.test_sosreport.test_03_rhua_sosreport_check()  
    check if the sosreport archive from the RHUA node contains the desired files  
  
rhui3_tests.test_sosreport.test_04_cds_check_sos_script()  
    check if the RHUI sosreport script is available on the CDS node  
  
rhui3_tests.test_sosreport.test_05_cds_sosreport_run()  
    run sosreport on the CDS node  
  
rhui3_tests.test_sosreport.test_06_cds_sosreport_check()  
    check if the sosreport archive from the CDS node contains the desired files  
  
rhui3_tests.test_sosreport.test_99_cleanup()  
    delete the archives and their checksum files, local caches; remove CDS
```

Subscription Management Tests

Test case for the RHUI SKU, the RHUI 3 repo, and subscription registration in RHUI

```
class rhui3_tests.test_subscription.TestSubscription
    class for tests for subscription registration in RHUI

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    static test_00_initial_run()
        log in to RHUI

    static test_01_register_system()
        register with RHSM

    test_02_attach_rhui_sub()
        attach the RHUI subscription

    test_03_attach_atomic_sub()
        attach the Atomic subscription

    test_04_check_available_subs()
        check if the subscriptions available to RHUI are the known ones

    test_05_reg_rhui_sub_in_rhui()
        register the RHUI subscription in RHUI

    test_06_reg_atomic_sub_in_rhui()
        register the Atomic subscription in RHUI

    test_07_check_registered_subs()
        check if the subscriptions are now tracked as registered

    test_08_unregister_sub_in_rhui()
        unregister the subscriptions in RHUI
```

```
static test_09_check_registered_subs ()  
    check if the subscriptions are no longer tracked as registered  
  
static test_10_unregister_system ()  
    unregister from RHSM
```

Repo syncing and scheduling Tests

Repo syncing and scheduling tests

```
class rhui3_tests.test_sync_management.TestSync
    class for repository synchronization tests

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    test_01_setup()
        log in to rhui-manager, upload RH cert, add a repo to sync

    test_02_sync_repo()
        sync a RH repo

    test_03_check_sync_started()
        ensure that the sync started

    test_04_wait_till_repo_synced()
        wait until the repo is synced

    test_99_cleanup()
        remove the RH repo and cert
```

Update Info Tests

Update Info Tests

```
class rhui3_tests.test_updateinfo.TestClient
    class for client tests

    static setup_class()
        announce the beginning of the test run

    static teardown_class()
        announce the end of the test run

    static test_01_repo_setup()
        log in to RHUI

    static test_02_add_cds()
        add a CDS

    static test_03_add_hap()
        add an HAProxy Load-balancer

    test_04_add_repo()
        add a custom repo

    test_05_upload_packages()
        upload packages to the custom repo

    test_06_import_updateinfo()
        import update info

    test_07_generate_ent_cert()
        generate an entitlement certificate

    test_08_create_cli_rpm()
        create a client configuration RPM from the entitlement certificate

    test_09_install_conf_rpm()
        install the client configuration RPM
```

test_10_install_test_rpm()
install an old version of an RPM from the repo

test_11_check_updateinfo()
check if the expected update info is found

test_12_compare_n_of_updates()
check if the all the updates from the original updateinfo file are available from RHUI

test_13_uncompressed_xml()
also check if an uncompressed updateinfo.xml file can be used

test_99_cleanup()
remove the repo, uninstall hap, cds, cli rpm artefacts; remove rpms from cli

User Management Tests

User management tests

```
rhui3_tests.test_user_management.setup()  
    announce the beginning of the test run  
  
rhui3_tests.test_user_management.teardown()  
    announce the end of the test run  
  
rhui3_tests.test_user_management.test_01_initial_run()  
    log in the RHUI (try the “usual” or the default admin password)  
  
rhui3_tests.test_user_management.test_02_change_password()  
    change the password (will log the user out automatically)  
  
rhui3_tests.test_user_management.test_03_login_with_new_pass()  
    log in with the new password  
  
rhui3_tests.test_user_management.test_04_reset_password()  
    change the password back to the “usual” one  
  
rhui3_tests.test_user_management.test_05_login_with_wrong_pass()  
    try logging in with the wrong password, should fail gracefully
```

Miscellaneous Tests That Do Not Fit Elsewhere

Miscellaneous Tests That Do Not Fit Elsewhere

```
rhui3_tests.test_zzz_misc.setup()
    announce the beginning of the test run

rhui3_tests.test_zzz_misc.teardown()
    announce the end of the test run

rhui3_tests.test_zzz_misc.test_01_sha1()
    check if SHA-1 is not used in internal certificates, and if SHA-256 is used instead

rhui3_tests.test_zzz_misc.test_02_repo_remove_missing()
    check if Pulp repos are globally configured to remove packages missing upstream

rhui3_tests.test_zzz_misc.test_03_restart_services_script()
    try the rhui-services-restart script

rhui3_tests.test_zzz_misc.test_04_fabric_crypto_req()
    check if the fabric package requires python-crypto

rhui3_tests.test_zzz_misc.test_05_celery_selinux()
    verify that no SELinux denial related to celery was logged

rhui3_tests.test_zzz_misc.test_06_pulp_server_rpm_v()
    verify that /etc/pki/pulp/rsa_pub.key is installed correctly

rhui3_tests.test_zzz_misc.test_07_check_migrate_py()
    check if the migration script in the RHUI ISO is up to date

rhui3_tests.test_zzz_misc.test_08_qpid_linearstore()
    check if the qpid-cpp-server-linearstore package is available
```


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