Jenkins CI Server for 1xPlus Test Rig

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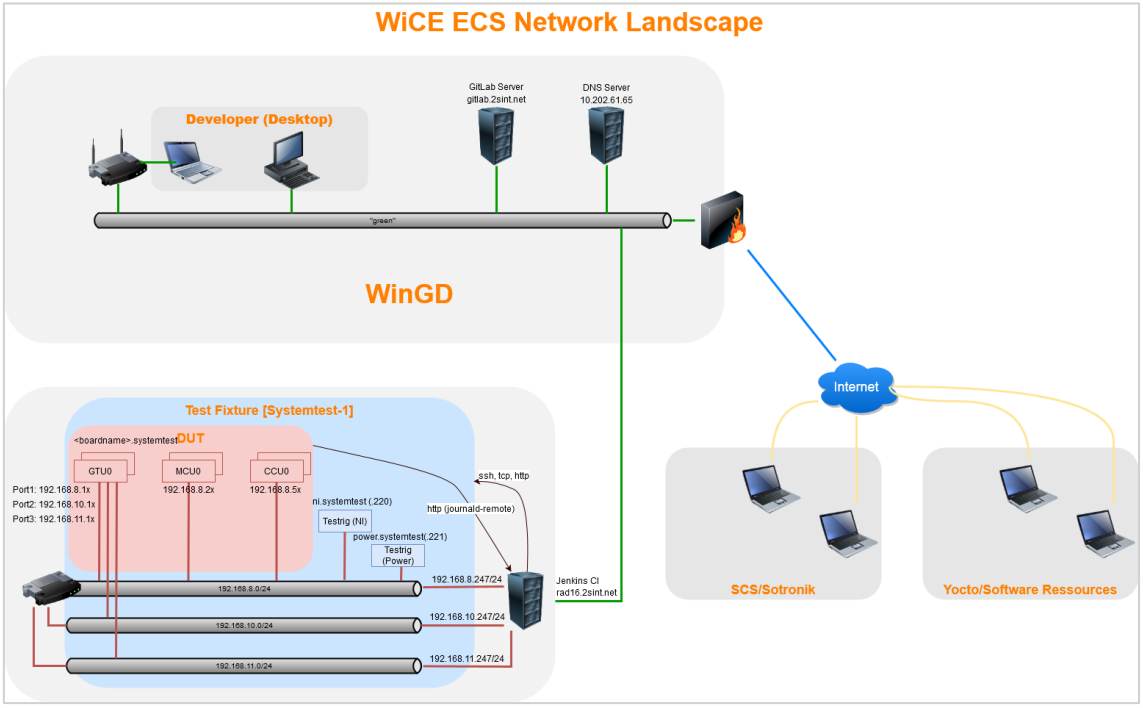
1 Network Environment



1.1 Deviation from SCS network

- DNS Server: 10.202.61.65
- GitLab server gitlab.2sint.net, IP address: 10.202.65.19
- rad16 (Ubuntu 16.04, Jenkins) is used for building yocto and for automated system tests
- rad16 has 2 network interfaces:
  1. connected to WinGD LAN, acessible via rad16.2sint.net, IP address: DHCP, 10.202.73.0 (it could change in the future)
  2. connected to Test Fixture [Systemtest-1] with several fix IP addresses: 192.168.8.247/24, 192.168.10.247/24, 192.168.11.247/24 (the latter two are used in some tests to access Ethernet ports 2 & 3 of GTUs)

2 Yocto Build Process

Build & test server machine (Jenkins CI): http://rad16.2sint.net/

Git server: http://gitlab.2sint.net/AutomationAndControl/SCS-Repos

2.1 Git Repositories

- yocto-ecs.git – mirror of CSC repository "yocto-ecs.git" on GitLab

  Jenkins jobs defined on this repository:

  - Jenkinsfile-build: build yocto-ecs project on wingd-master branch
  - Jenkinsfile-build-fnd-next: build yocto-ecs project on wingd-master-next branch
  - Jenkinsfile-build-fnd-development: build yocto-ecs project on wingd-development branch

  - Jenkinsfile-all: run Jenkinsfile-build job, on success run system test job on wingd-master branch; start on timer (currently Mon-Fri 20:00)
  - Jenkinsfile-all-fnd-next: run Jenkinsfile-build-fnd-next job, on success run system test job on wingd-master-next branch; start on timer (currently Sat-Sun 14:00)
  - Jenkinsfile-all-fnd-development: run Jenkinsfile-build-fnd-development job, on success run system test job on wingd-development branch; start on timer (currently Sat-Sun at 20:00)

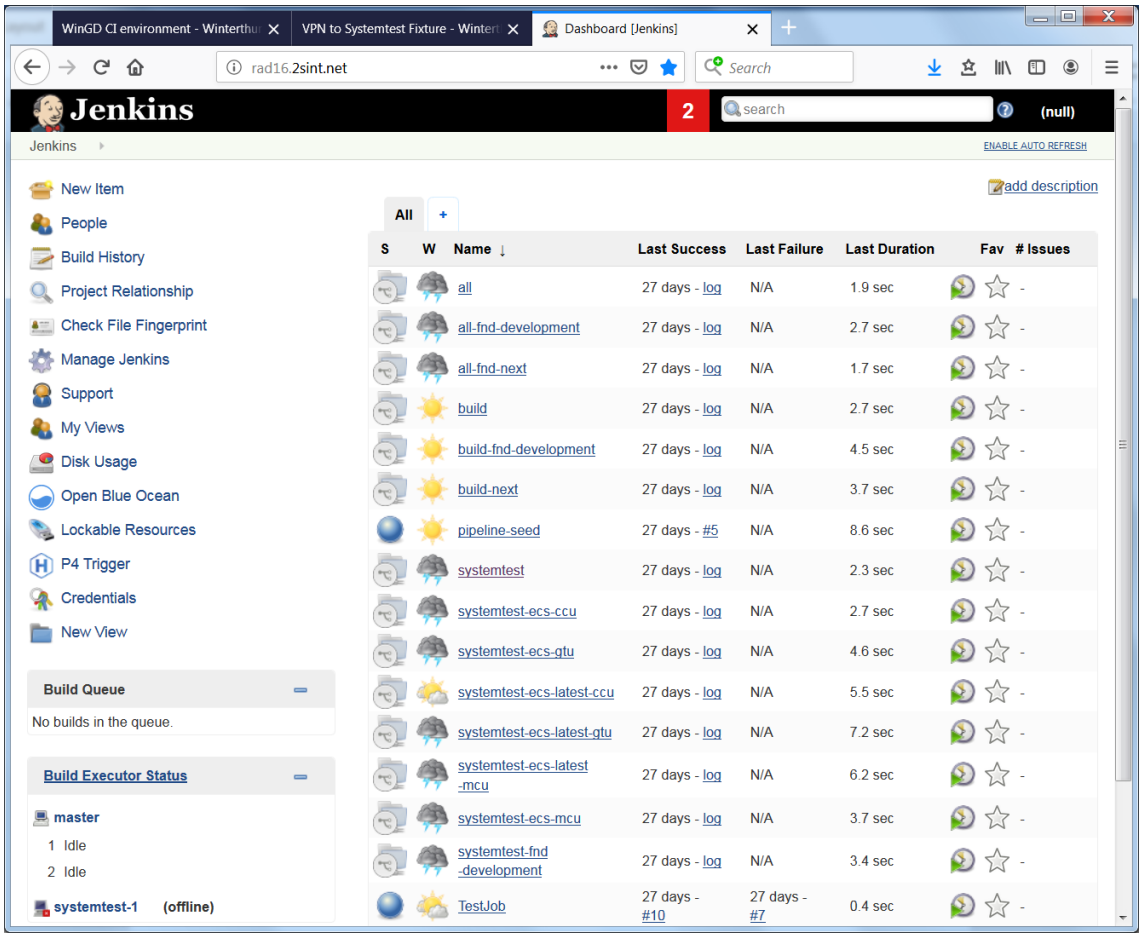
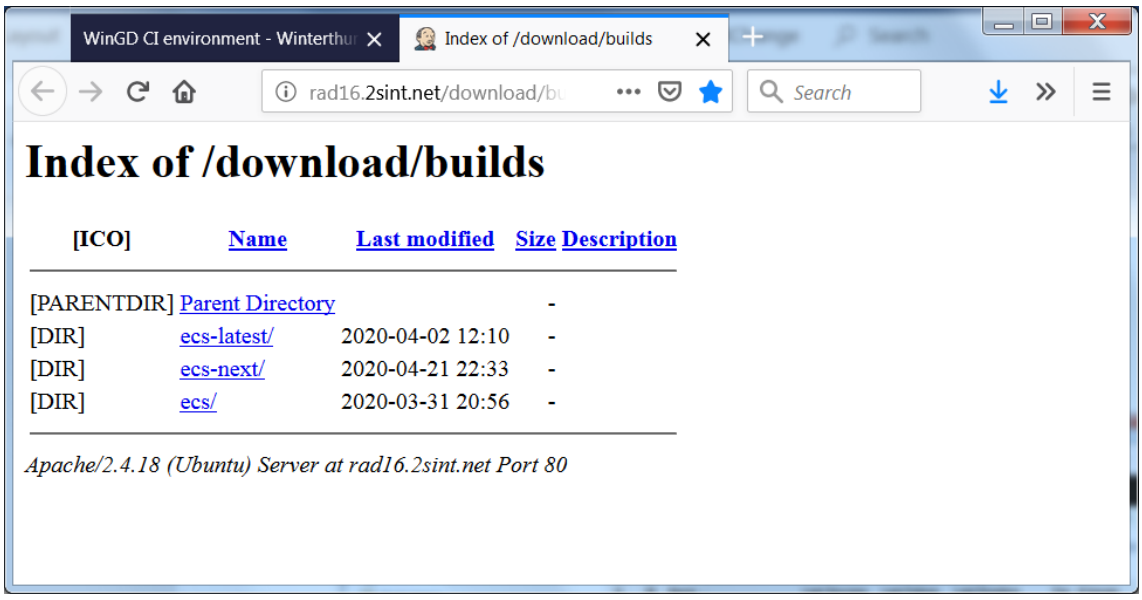
- mazu-ecs-systemtest-infra.git – mirror of CSC repository "mazu-ecs-systemtest-infra.git" on GitLab

  Jenkins jobs defined on this repository:

  - Jenkinsfile: run system test job on the specified branch (wingd-master, wingd-master-next or development)
  - Jenkinsfile-ccu: same as Jenkinsfile, but only for CCU-1 (python script argument "--dut=CCU-1"); only manual start trigger
  - Jenkinsfile-gtu: same as Jenkinsfile, but only for GTU-1 (python script argument "--dut=GTU-1"); only manual start trigger
  - Jenkinsfile-mcu: same as Jenkinsfile, but only for MCU-1 (python script argument "--dut=MCU-1"); only manual start trigger

3 Jenkins GUI

Jenkins GUI is accessible form the WinGD LAN (or via VPN) at this URL: rad16.2sint.net



The built artifacts (i.e. WiCE SW images) for all three branches (“ecs” for wingd-master, “ecs-next” for wingd-master-next and “ecs-latest” for wingd-development) are accessible at this link: rad16.2sint.net/download/builds