

Jenkins

Jenkins - Current state of affairs - Updated

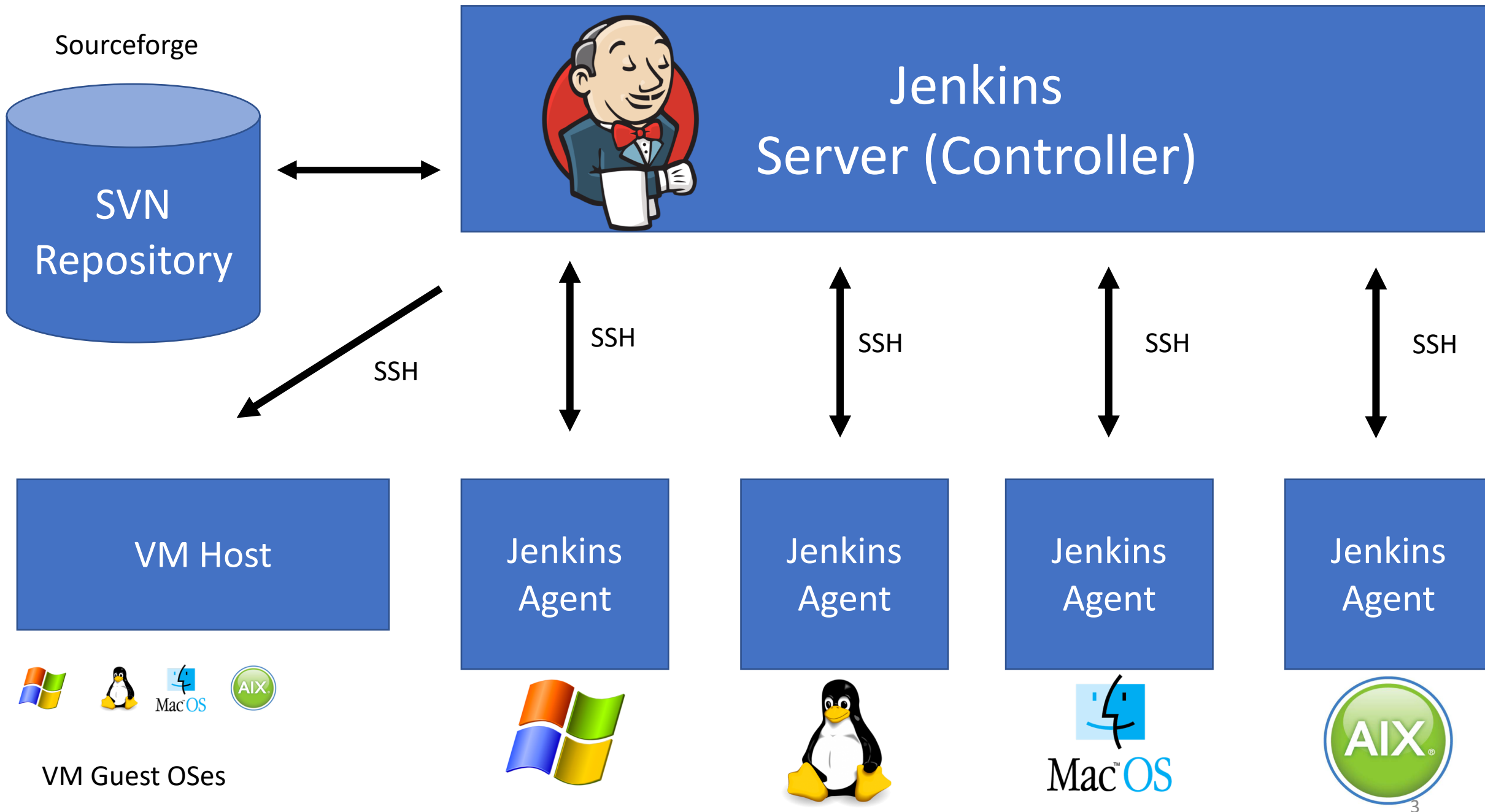
Presenter: P.O. Jonsson (oorexx@jonases.se)

36th International Rexx Language Symposium,
May 2025

Jenkins

<https://jenkins.io/>





Jenkins Master

- Jenkins is a self-contained, Java-based, automation **server**
- Can be installed on any machine with a Java 17 Runtime (JRE)
- More than 2000 Plugins available
- Open Source
- Used for building, testing, and uploading ooRexx/NetRexx/CREXX
- And as of late – Regina Rexx!

Jenkins Agents

- Can be set to do various tasks under the control of the Master
- Can be almost any machine accepting connections from remote
- Can be set up to use SSH Protocol for communication
- Requires a communication module that is automatically downloaded from the Controller once connection has been established
- Requires JAVA, currently Java 17 is the lowest version



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 New Item Build History Project Relationship Check File Fingerprint Manage Jenkins My Views Lockable Resources Plugin UsageBuild Queue (2) ooRexx-macOS15-M4-buildooRexx-macOS10-X86_64-build

The Rexx Language Association's cRexx, NetRexx, ooRexx and Regina Build Server, powered by P.O.

Latest changes; for details see - configuration best practises -

- 202504: Copy Artifacts plug-in installed
- 202504: build scripts simplified, no longer require curl, wget, jom, downloaddocs
- 202503: Throttle Concurrent Builds plug-in and Build Blocker plugin installed

Open issues (time beep and sysleep problem only on virtual machines)

- ooRexx-OpenBSD7-test: intermittent segmentation faults
- ooRexx-NetBSD9-test: Segmentation faults executing many test groups, e. g.
ooRexx/base/bif -x time beep
ooRexx/base/class/File.testGroup -x test_relative
ooRexx/base/keyword -x LOSTDIGITS TRACE
ooRexx/base/rexxutil -x SysSleep
ooRexx/extensions -x SysUnix.testGroup
- On Windows in VM running the test fw leave one running rexx process behind preventing exit

To do's

- ooRexx-OpenBSD7-build: no installer; no portable installer
- ooRexx-NetBSD9-build, ooRexx-OpenIndiana-build, ooRexx-Solaris11-build: no installer

Build Executor Status

 <u>Built-In Node</u>	0/1
 <u>Marks-M4-Mac</u>	(offline)
 <u>ams-02</u>	0/1
 <u>pos-MacPro-12Core</u>	(launching...)
 <u>pos-MacPro-16Core</u>	0/1
 <u>pos-Pi-2B</u>	0/1
 <u>pos-Pi-3BPlus</u>	0/1
 <u>pos-Windows</u>	0/1
 <u>pos-vbox-ArchLinux</u>	0/1
 <u>pos-vbox-CentOS9</u>	0/1
 <u>pos-vbox-Debian11</u>	0/1
 <u>pos-vbox-Fedora40</u>	0/1
 <u>pos-vbox-FreeBSD14</u>	0/1
 <u>pos-vbox-LinuxMint21</u>	0/1

S	W	Name ↓	Last Success	Last Failure	Last Duration
		-configuration_best_practises-	N/A	N/A	N/A
		Android.Build	N/A	1 yr 5 mo #1783	69 ms
		crexx_aarch64_linux	1 yr 1 mo #17858	1 yr 1 mo #18006	18 sec
		Jenkins-Environment-Variables-List	2 mo 10 days #29	2 yr 3 mo #8	28 ms
		NetRexx Multibranch Build	2 yr 3 mo log	N/A	26 min
		ooRexx-ArchLinux-build	7 hr 16 min #2	N/A	4 min 36 sec
		ooRexx-ArchLinux-test	5 hr 28 min #31	7 hr 2 min #30	7 min 41 sec
		ooRexx-CentOS9-build	7 hr 19 min #2	N/A	4 min 40 sec
		ooRexx-CentOS9-test	7 hr 4 min #224	16 hr #223	8 min 13 sec

Build Executor Status



 <u>Built-In Node</u>	0/1
 <u>Marks-M4-Mac</u>	(🔌 launching...)
 <u>ams-02</u>	0/1
 <u>pos-MacPro-12Core</u>	(🔌 launching...)
 <u>pos-MacPro-16Core</u>	0/1
 <u>pos-Pi-2B</u>	0/1
 <u>pos-Pi-3BPlus</u>	0/1
 <u>pos-Windows</u>	0/1
 <u>pos-vbox-ArchLinux</u>	0/1
 <u>pos-vbox-CentOS9</u>	0/1
 <u>pos-vbox-Debian11</u>	0/1
 <u>pos-vbox-Fedora40</u>	0/1
 <u>pos-vbox-FreeBSD14</u>	0/1

 <u>pos-vbox-LinuxMint21</u>	0/1
 <u>pos-vbox-Manjaro</u>	0/1
 <u>pos-vbox-NetBSD9</u>	0/1
 <u>pos-vbox-OpenBSD7</u>	0/1
 <u>pos-vbox-OpenIndiana</u>	0/1
 <u>pos-vbox-OpenSuse15</u>	0/1
 <u>pos-vbox-Solaris11</u>	0/1
 <u>pos-vbox-Ubuntu24</u>	0/1
 <u>pos-vbox-Windows10</u>	0/1
 <u>pos-vbox-Windows11</u>	0/1
 <u>pos-vbox-Windows7</u>	0/1
 <u>pos-vbox-Windows8</u>	0/1
 <u>ubuntu16</u>	0/1

Build Executors

- Built-In Node
- Marks-M4-Mac
- ams-02
- pos-MacPro-12Core
- pos-MacPro-16Core
- pos-Pi-2B
- pos-Pi-3BPlus
- pos-Windows
- Ubuntu16

Physical Machines

- Dell T20 Jenkins @DE (P.O.)
- M4 Mac @AU (Mark)
- Raspberry Pi 4B @NL (René)
- 2010 MacPro @SE (P.O.)
- 2019 MacPro @DE (P.O.)
- Raspberry Pi 2B @DE (P.O.)
- Raspberry Pi 3B+ @DE (P.O.)
- i7-4770T W10 @DE (P.O.)
- VM @AT (Erich)

- **Virtual Machines Build Executors**

- Debian based VMs
- pos-vbox-Debian 11
- pos-vbox-Ubuntu 22, 24
- pos-vbox-LinuxMint 21

- Red Hat based VMs
- pos-vbox-CentOS9
- pos-vbox-Fedora40

- Slackware based VMs
- pos-vbox-OpenSuse15

- BSD based VMs
- pos-vbox-FreeBSD14
- pos-vbox-OpenBSD7
- pos-vbox-NetBSD9

- Arch Linux based VMs
- pos-vbox-Manjaro
- pos-vbox-ArchLinux

- Unix VMs
- pos-vbox-Solaris11
- pos-vbox-OpenIndiana

- No MacOS based VMs (but 3 physical)

- Windows based VMs
- pos-vbox-Windows7
- pos-vbox-Windows8
- pos-vbox-Windows10
- pos-vbox-Windows11

New Tenant: Regina REXX!

		regina-rexx-bsd-build	27 days #10	28 days #8	1 min 10 sec	
		regina-rexx-bsd-build-delete	N/A	N/A	N/A	
		regina-rexx-deb-build	1 mo 1 day #10	1 mo 1 day #6	2 min 22 sec	
		regina-rexx-macos-build	1 mo 1 day #8	1 mo 2 days #6	1 min 31 sec	
		regina-rexx-rpm-build	1 mo 1 day #8	1 mo 2 days #5	2 min 51 sec	

Windows agent

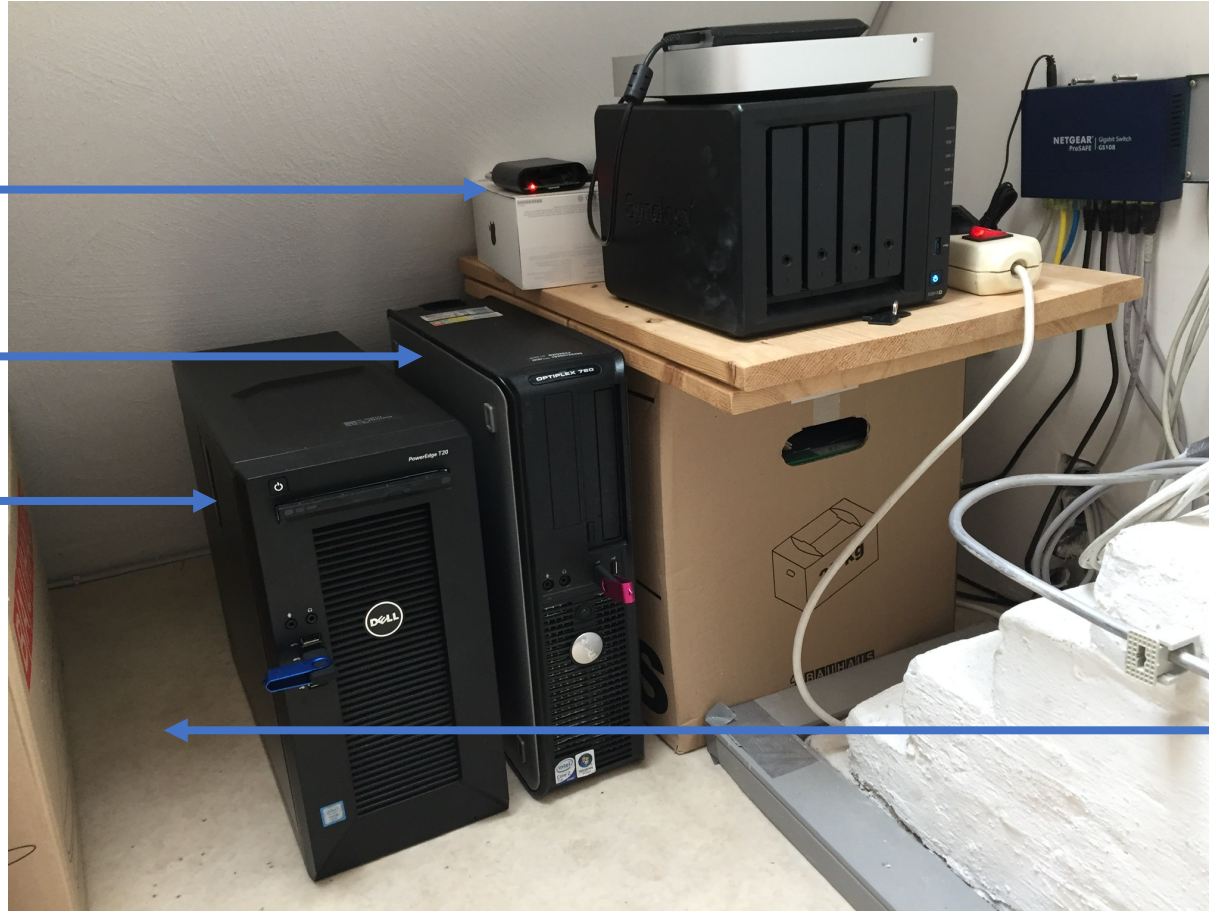
jenkins@jonases.se

Raspberry PI agents

Retired agent

Jenkins Controller

Mac PRO here!



Thank you for your attention!

P.O. Jonsson (oorexx@jonases.se)