Center team Virtual machines

# Introduction

This document describes the setup of virtual machines needed by the Center team for development and testing of the software.

We will define a pattern for groups, meaning a predefined set of VMs that should be replicated in different groups for usage in different contexts.

# Center VMs set pattern

Each set consists of three different “types” of VMs.

## Online

This VM hosts the Online applications intended as BackgroundSystem and Frontend.

## Com

This virtual machine contains the Comm.S and other communication-specific applications. It can also be used for additional satellite applications.

## Iqubes

This virtual machine hosts the virtual iqubes and software used as support for their management (i.e.: OMC).

# Groups

We define 6 main “regular” groups for virtual machines plus groups specific for releases and I&T:

## Frontend development (Frontend)

This group contains virtual machines used to mainly develop the Frontend part of the Center system (the web application).

## Backend development (Backend)

This group contains virtual machines used to develop and test the Backend part of the Center system with many virtual units and different configurations (BackgroundSystem, Itcs).

## Long run tests (LongRun)

This group contains virtual machines used to run the complete system for many hours/days without interruption.

## Demo/PO (Demo)

Virtual machines in this group are reserved for usage in demos and for the PO.

## LEF development (LEF)

This group contains virtual machines used by LEF to test the Backend part of the Center system with many virtual units and different configurations (BackgroundSystem, Itcs).

## PO (PO)

This group contains virtual machines used by the PO to test different configurations.

## Releases

This group contains one subgroup for each release of the Center software. Each group follows the usual pattern for VMs.

## I&T

Virtual machines in this group are used to run Integration Tests.  
This group doesn’t follow the pattern used in other groups but it defines a set of virtual machines specifically designed for IT. The definition has still to be done at the time we write this document.

# Naming

For regular groups we follow the following pattern:

Center **{ShortGroupName}** – **{Type}** (**{IpAddress}**)

Where:

**{ShortGroupName}** is the short name of the group (for instance, Demo)

**{Type}** is one of the regular types (Online, Com or Iqubes)

**{IpAddress}** is the IP address assigned to the machine

For releases, the **{ShortGroupName}** will be replaced by **Release X.Y** (Release X.Y.Z.Wp in case of patches).

# Table of systems

|  |  |  |  |
| --- | --- | --- | --- |
|  | Online | Com | iqubes |
| Frontend | Center Frontend – Online (192.168.1.241) [CENTERFE-ON] | Center Frontend – Comm.S (192.168.1.242) [CENTERFE-COM] | Center Frontend – iqubes (192.168.1.243) [CENTERFE-IQ] |
| Backend | Center Backend – Online (192.168.245) [CENTERBE-ON] | Center Backend – Com (192.168.1.246) [CENTERBE-COM] | Center Backend – iqubes (192.168.1.247) [CENTERBE-IQ] |
| LEF | Center LEF – Online (192.168.1.145) [CENTERLEF-ON] | Center LEF – Com (192.168.1.146) [CENTERLEF-COM] | Center LEF – iqubes (192.168.1.147) [CENTERLEF-IQ] |
| PO | Center PO – Online (192.168.1.175) [CENTERPO-ON] | Center PO – Com (192.168.1.176) [CENTERPO-COM] | Center PO – iqubes (192.168.1.177) [CENTERPO-IQ] |
| Demo | Center Demo – Online (192.168.1.251) [CENTERDEMO]\* | Center Demo – Com (192.168.1.252) [CENTERDEMO-COM] | Center Demo - Iqubes (192.168.1.253) [CENTERDEMO-IQ] |
| LongRun | Center LongRun – Online (192.168.1.235) [CENTERLR-ONLINE] | Center LongRun – Com (192.168.1.236) [CENTERLR-Com] | Center LongRun – iqubes (192.168.1.237) [CENTERLR-IQ] |
| Releases/Release 1.0 | Center Release 1.0 – Online (192.168.1.225) [CENTER-1-0-ON] | Center Release 1.0 – Com (192.168.1.226) [CENTER-1-0-COM] | Center Release 1.0 – Iqubes (192.168.1.227) [CENTER-1-0-IQ] |
| Releases/Release 1.2 | Center Release 1.2 – Online (192.168.1.231) [Center-1-2-ON] | Center Release 1.2 – Com (192.168.1.232) [CENTER-1-2-COM] | Center Release 1.2 – iQubes (192.168.1.233) [CENTER-1-2-IQ] |

[{name}] = System name for Windows

\* Machines that are also in the domain Gorba.com

# VDV server VMs and connected systems

For all CSA-xxx servers the ItcsClient must run on the same machine.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Vdv server | Data set | Xml namespace | Real data | Connected ItcsClient |
| VBSG- Testserver (10)  80.252.213.170 | VBSG | vdv453ger | Yes | Demo  (192.168.1.252) |
| PAG-Simulator (20)  192.168.1.252 | PAG | vdv453ger | No | Demo  (192.168.1.252) |
| RegioBus-Simulator (10)  192.168.1.249  [VDV-NOXMLNS] | RegioBus | No | No | Demo  (192.168.1.249) |
| VBSG-Simulator (10)  192.168.1.246  [VDV453-STRESS] | VBSG | No | No | Backend  (192.168.1.246) |
| PAG-Simulator (20)  192.168.1.250 | PAG | No | NO | Backend (192.168.1.250) |
| RegioBus-Simulator (10)  192.168.1.245 | RegioBus | No | NO | Backend  (192.168.1.245) |
| VBSG- Simulator (10)  192.168.1.146 | VBSG | No | No | LEF  (192.168.1.146) |
| PAG-Simulator (20)  192.168.1.248 | PAG | No | No | LEF  (192.168.1.248) |
| RegioBus-Simulator (10)  192.168.1.145 | RegioBus | No | No | LEF  (192.168.1.145) |
| VBSG- Simulator (10)  192.168.1.176 | VBSG | No | No | PO  (192.168.1.176) |
| PAG-Simulator (20)  192.168.1.242 | PAG | No | No | PO  (192.168.1.242) |
| RegioBus-Simulator (10)  192.168.1.175 | RegioBus | No | No | PO  (192.168.1.175) |
| VBSG- Simulator (10)  192.168.1.236 | VBSG | No | No | LongRun  (192.168.1.236) |
| PAG-Simulator (20)  192.168.1.241 | PAG | No | No | LongRun  (192.168.1.241) |
| RegioBus-Simulator (10)  192.168.1.243 | RegioBus | No | No | LongRun  (192.168.1.243) |

## External mappings

Some virtual machines are configured for external access.  
Access to services (BackgroundSystem/xxx.svc) are filtered in IIS.

|  |  |  |
| --- | --- | --- |
| Online VM | External Ip + port | Filtering for BackgroundSystem services |
| Center Demo (192.168.1.251) | 213.142.176.65:8251 | Access restricted to:   * 192.168.1.x (Test network) |
| Center Frontend (192.168.1.241) | 213.142.176.65:8241 | Access restricted to:   * 192.168.1.x (Test network) * 212.86.215.x (BlueHands) |

## I&T

Integration tests will have a different set of machines (to be defined).