SeisComP3
Basic Training Course
Second Edition in America

Date: August 27th to 30th 2019
Place: Palmira, Boquete - Chiriqui, Panamá.

This is a basic training course usually given at gempa GmbH headuarters in Germany, this is actually the second edition of such event in America. This training session is highly hands-on oriented, and addressed to anyone interested in Seismology, and perfect for new SeisComP3 users who wish to get quickly started with a productive SeisComP3 system.

Objectives:

- Introduction to characteristics of SeisComP3.
- Installation of the latest SeisComP3 release.
- Generation of station information including responses.
- Configuration of the acquisition and processing modules through the new graphical user interface.
- Data management utilities.
- Tuning of SeisComP3 for local earthquake monitoring including the phase pickers, locator, associator and magnitudes.
- Practical training (focusing on real-time playbacks, off-line playbacks and hands-on tuning).
- Participants may bring their own datasets and use it for tuning.

Scope:

- This is a basic course focus on SeisComP3 system, it is not intended to be a Linux, programming, or system administration course.
- Also it is necessary that the participants have some level of knowledge in Seismology, basic concepts as wave propagation, earthquake location, and seismological equipment.
- The course will cover the installation and configuration on a basic level, software programming is not intended to be cover on any level.
- The maximum number of participants is 8.

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TRAINING COURSE CONTENT August 27th to 30th 2019

First day

- Welcome / Attendees Reception – Branden Christensen - 30 mins.
- SeisComPRO Brief Description – Bernd Weber – 2 hrs.
- Raspberry Shake Hardware Brief Description – Branden Christensen – 1 hr.

Introduction

(a) Brief SeisComP3 description

(b) Brief Gempa description

(c) Brief Raspberry Shake Description

GEMPA Services and products

Schema

(a) SeisComP3 Design, Message System (scmaster y spread)

(b) Communication Protocols

(c) MiniSEED

(d) MySQL

(e) Linux

(f) Python

Installation

(a) Operational System

(b) Dependences

(c) SeisComP3 Packages Repositories (gsm Utility).

(d) Online Help (Mailing List, Forums).

(e) Setup

Second day

Configuration

(a) Directory Tree

(b) Running the First GUI, scconfig

(c) Station Bindings

(d) seedlink and caps, Getting a First Station

(e) XML Inventory, Importing Dataless Metadata.

(f) scrttv Data Display

Backup

(a) GIT Usage

Third day

Automatic Data Processing

(a) scautopick Configuration

(b) scautoloc Configuration

(c) scanloc Configuration

(d) scevent Configuration

(e) Magnitudes in SeisComP3

(f) gds and quakelink Introduction

(g) scmtv Small Introduction

Manual Event Processing

(a) scolv

(b) scolv Tuning

(c) scesv and scmv

(d) scmtv

Forth Day

Manual Event Offline and Online Playbacks

(a) Waveform Acquisition

(b) Configuration Import

(c) Inventory Import

(d) Offline Playback

(e) Online Playback

(f) Drag and drop of Filter Chains

(g) Local Tuning

(h) Feeding the Database With New Data

Wrap Up Session

(a) Questions and Answers

(b) Summary Conclusions and Feedback Session