

Guideline for SOI Asia self-paced workshop participant

Overview

SOI Asia self-paced workshop aims to support partners to train new SOI Asia operators to be able to setup and operate SOI Asia environment. The workshop content includes how to setup satellite receiver, network services and how to operate realtime class. The workshop environment is shown in Figure 1, SOI Asia provides web-based lessons and virtual lab for workshop participants to learn and practice hands-on lessons. Participants from partner site can access these resources through Internet and conduct the workshop locally.

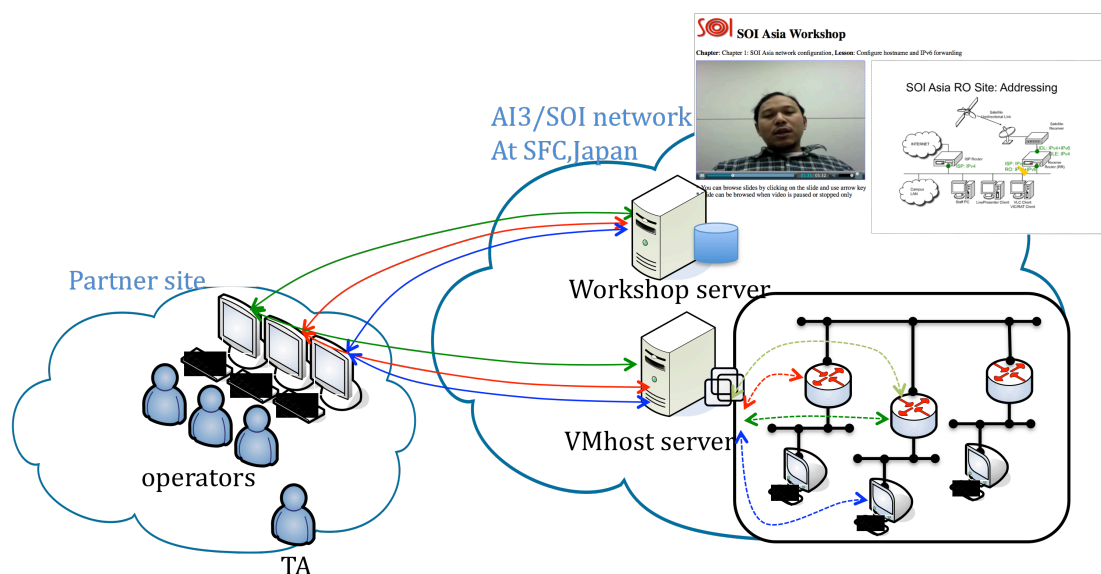


Figure 1. Workshop environment

The local workshop organizer will provide necessary facilities for participants to be able to access workshop content and lab. Local TAs will guide/instruct participants to conduct the workshop.

Equipments and Network

The following items are required to access the web-based lessons and conduct lab assignments.

Computer

- One computer for each participant
 - o To access web-based lessons and materials
 - o To remotely connect to lab's VMs
 - o To be a SOI Asia dokodemo client (details in the Chapter 5's lesson)

- The computer must be audio-enabled and usb-bootable. The required applications are web-browser, SSH client (ex. Putty), PDF reader.

USB flash/thump drive

- An empty USB drive (1GB or more) is to be used for SOI Asia dokodemo client setup (details in the Chapter 5's lesson).

Network

- It is recommended to use SOI Asia network at your campus for better speed to access workshop content and VMs located at SOI Asia network in Japan. The SOI Asia network is also required in some lessons to verify output of the configurations (especially those lessons with IPv6 network services). It is also needed for practicing realtime class operation and dokodemo setup.
- However, some content of the workshop including web-based lessons and some virtual lab configurations can be carried out using regular Internet connectivity at home or campus. Please be noted that slow Internet speed will cause interruptions to view web-based lessons and the connection to virtual lab.

SOI Asia classroom environment

- To practice how to operate realtime class (Chapter 5), the SOI Asia network environment at your campus is required to demonstrate how the system really works. Please contact your TAs to assist you to access to the classroom and demonstrate how to operate the actual equipments.

Workshop procedure for participant

1. You will receive an email with the following information
 - Workshop period
 - URL to access the system and your account information
 - TAs' names/emails whom you will contact for instructions



Username:

Password:

2. Learning lessons
 - Participant can login and access the web-based lessons anytime after receiving the account.

SOI Asia Self-paced Workshop

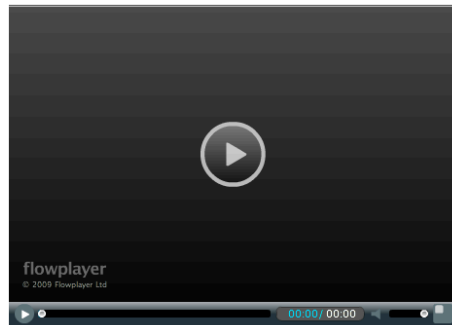
<p>Menu Lessons Materials Lab reservation Lab access Questionnaire Logout</p> <p>u0901s0111: as</p>	<p>Announcement 2010-05-05 16:05:14 : Please use the menu "Lab reservation" to reserve the virtual lab for hands-on practice.</p>
	<p>Introduction</p> <p>Introduction to AI3/SOI Asia Network Introduction to TCP/IP IP Routing (OSPF and PIM-SM)</p> <p>Chapter 1: SOI Asia network configuration</p> <p>Configure hostname and IPv6 forwarding Configure /etc/hosts Configure IPv4 forwarding Configure IP addresses for eth0 Configure IPv4 address alias for eth0 Configure IP addresses for eth1 Configure IPv4 address alias for eth1</p>

- Participant can download workshop materials on the menu “Materials”

<p>Menu Lessons Materials Lab reservation Lab access Questionnaire Logout</p> <p>u0901s0111: as</p>	<p>Announcement 2010-05-05 16:05:14 : Please use the menu "Lab reservation" practice.</p>
	<p>Introduction - SOI Network & TCP/IP download Introduction - Routing download Chapter1 - Network Configuration download Chapter2 - Network services download Chapter3 - SOI Asia archive services download Chapter4 - SOI Asia network monitoring download Chapter5 - Realtime class operation download Chapter5 - Dokodemo download Lab Topology/Addressing download Hands-on Lab Sheet (Chapter 1-4) download</p>

- There are two main types of lessons.
 - 1) Lessons with no lab verification

Most of these lessons explains theoretical knowledge and does not have lab assignments. It will be informed on the top of the page if this lesson has no lab verification.



* You can browse slides by clicking on the slide and use arrow key
* Slide can be browsed when video is paused or stopped only

Directions for 2010 and Beyond

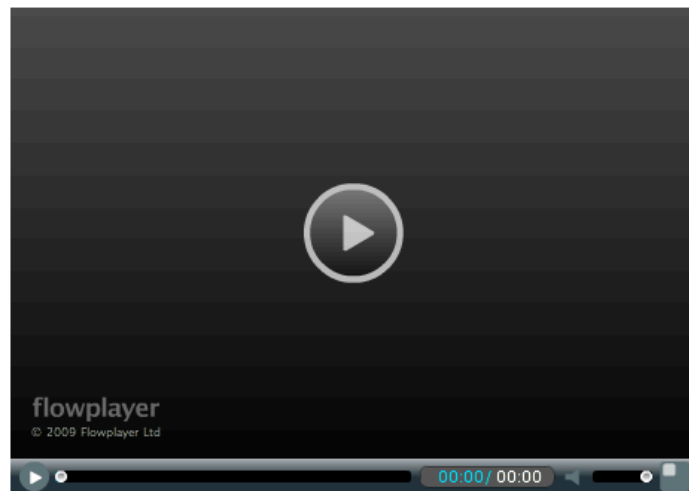
- ULE for Unidirectional Link
- Merging Receive Router and SOI Asia Server
- DokoDemo SOI Asia
- Classes in High Definition
- LivePresenter with Multicast

- More Internships (end of the talk today)

2) Lessons with lab verification

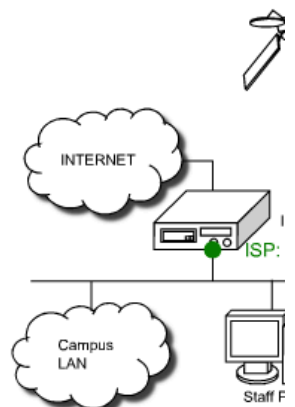
- These lessons require participants to run services on VMs according to the configuration taught. There is a button “Verify results” at the end of the page. Once participant finishes configurations on VM, push the button to verify the result.
- It will report “SUCCESS” if configuration is correct, else it will report the possible errors. The system will record the lessons that have been verified as success.

Chapter: Chapter 1: SOI Asia network configuration, **Lesson:** Configure hostname and IPv6 forwarding



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SOI Asia RC



Hands-on Steps [Verify results](#)

Step: Configure hostname and IPv6 forwarding

3. Lab reservation

- A reservation in advance is needed to use lab, it can be done on the menu “Lab reservation”. Each participant will be given 9 sessions initially (each session = 3 hours) to complete all assigned lab lessons. Lab reservation can be made only in the period of the workshop and must be done/change at least one day in advance. The time specified is Japan time(JST).

Workshop duration from:2011-09-01 to:2011-09-20

Please reserve/change your lab schedule at least one day in advance. The availability is subject to system resources.

Currently, you have 9 sessions left from 9 sessions in total

Date	session 1 09:00-12:00	session 2 13:00-16:00	session 3 17:00-20:00	session 4 21:00-23:59
2011-09-01(Thu)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-02(Fri)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-03(Sat)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2011-09-04(Sun)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2011-09-05(Mon)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2011-09-06(Tue)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-07(Wed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-08(Thu)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-09(Fri)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-10(Sat)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-11(Sun)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-12(Mon)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-13(Tue)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-14(Wed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2011-09-15(Thu)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- However, if he/she could not complete lab lessons within the given quota, he/she can request 3 sessions more each time provided that he/she does a new reservation within 7 days after the last lab session and the workshop period is not over yet.

4. Lab access

- The instruction how to access VM is on menu “Lab access”. You need to have an ssh client application (ex. Putty) to make a remote login to VMhost server using the given username/password. After logged into your VM server, connect to your VM by running the script given.

```
Lab ID 11
VM Access information
First, SSH login to VM server by PUTTY (click on the link to download)
VM server sfc-ws-svr1.ai3.net
VM login name u0901s0111
VM login password 1654
Second, run the script given below on the command line to connect to your VMs
VM connect script for UG /connect.sh ug
VM connect script for HOST /connect.sh host
both using password 'soisoi'
```

5. Q/A

- If there is any question regarding the lessons, please ask your TAs to guide you.

6. Finish the workshop,

- Fill in the questionnaire for future improvement, on the menu “Questionnaire”
- On the last date of the workshop, the system will inform participants to backup all information before their accounts and lab resources will be deleted from the system.
- Participants can still use the guest account to review the web-based lessons later.

7. Certificate

- Confirm that you have completed the following requirements and inform your TAs. TAs will collect the information and request for the certificates at the end of the workshop.

- 1) Participant must complete all lab assignments including realtime application operation to be eligible
- 2) Participant ensure the correct spelling of his/her name to be printed on certificate by menu “Change Profile”