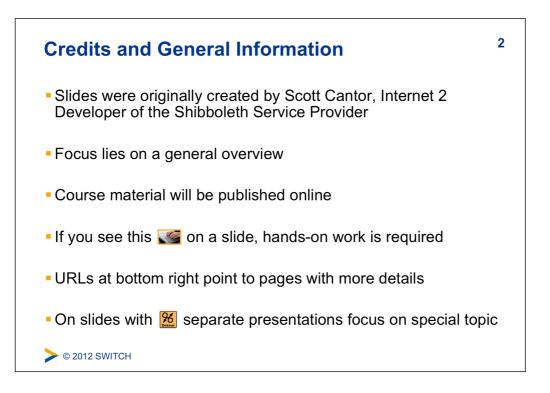
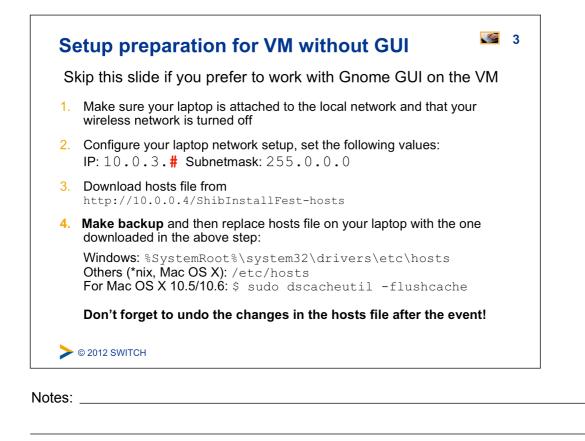


Notes:



Notes: _



1.	Open and run the downloaded "ShibInstallFest.vmwarevm" image with VMWare Player/Fusion. The first time it may take some time to boot. So, be patient.
2.	Log in with user root and password password
3.	<pre>Execute \$ setupVM This will call /opt/installfest/setup/setup.sh</pre>
4.	Provide your participant number and keyboard layout
5.	After reboot, check network connectivity with command: \$ ping testidp.example.org
6.	If you prefer to work with the GUI, type run <code>\$ startx</code>



Essential OS Commands for Linux

DOS Command	Linux Command
dir	ls -l
cd <directory></directory>	cd <directory></directory>
mkdir or md <directory></directory>	mkdir <directory></directory>
rmdir or rd <directory></directory>	rmdir <directory></directory>
chdir	pwd
del or erase <file></file>	rm <file></file>
copy and xcopy <file></file>	cp and cp -R <file></file>
find or findstr <file></file>	grep <string> <file></file></string>
<pre>comp <file1> <file2></file2></file1></pre>	diff <file1> <file2></file2></file1>
edit <file></file>	nano or vim or emacs <file></file>
ping <host></host>	ping <host></host>
reboot	reboot

6

File Editing Commands for Terminal Editor

7

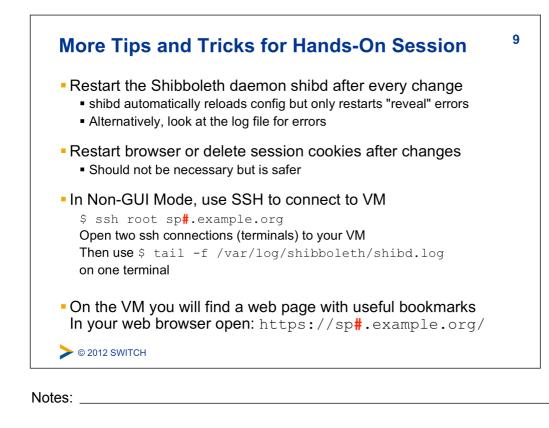
Editor	nano	vim	emacs
Open file	\$ nano <file></file>	\$ vim <file></file>	\$ emacs <file></file>
Save file	<ctrl>-o</ctrl>	<esc>, :w</esc>	<ctrl>-x, <ctrl>-s</ctrl></ctrl>
Save and exit	<ctrl>-x</ctrl>	<esc>, :wq</esc>	<ctrl>-x, <ctrl>-c, y</ctrl></ctrl>
Search string	<ctrl>-w, string</ctrl>	<esc>, /string</esc>	<ctrl>-s, string</ctrl>
Go to line number	<ctrl>, number</ctrl>	<esc>, number, <shift>-G</shift></esc>	<esc>, number, <shift>-G</shift></esc>

"nano" is recommended for Linux beginners without GUI Alternative for GUI users: Gnome "Text Editor" on desktop

> © 2012 SWITCH

Notes: _____

Tips and Tricks for Hands-On Session	8
 Don't enable the wireless network during the workshop! This could break your connectivity with other workshop hosts! 	
- Lines starting with $\ensuremath{\$}$ are commands to be executed	
 Character \ is line break symbol, which allows to break a line when typed 	
 Watch out for invalid XML/configuration errors \$ shibd -tc /etc/shibboleth/shibboleth2.xml Reports errors regarding well-formedness and schema validity 	
<pre>\$ xmlwf /path/some-XML-File.xml • Reports errors and line/column number if XML is not well-formed • E.g. shibboleth2.xml:261:2: mismatched tag</pre>	





Debugging SP Problems on Windows

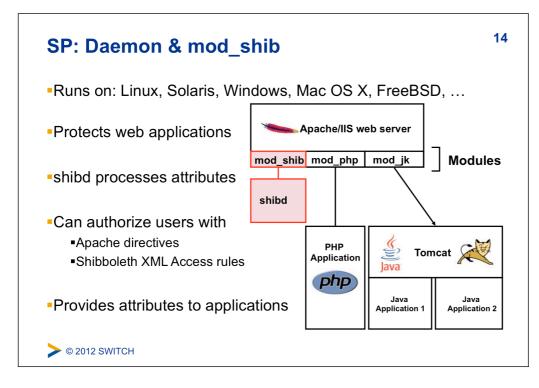
- 11
- Make sure the edited XML config file is valid XML by opening in Firefox the Shibboleth configuration file: C:\opt\shibboleth-sp\etc\shibboleth\shibboleth2.xml Firefox checks if XML file is well-formed
- Check Shibboleth configuration file: \$ C:\opt\shibboleth-sp\sbin\shibd.exe -check
- Stop "Shibboleth 2 Daemon" in Windows Services
- Increase log verbosity of shibd by setting log level to DEBUG in C:\opt\shibboleth-sp\etc\shibboleth\shibd.logger
- Have a look at log file and search for ERROR and CRIT messages in: C:\opt\shibboleth-sp\var\log\shibboleth\shibd.log
- Start "Shibboleth 2 Daemon" in Windows "Services" again
- If you fixed an error, also restart Apache or IIS in Windows Services

> © 2012 SWITCH

Notes:

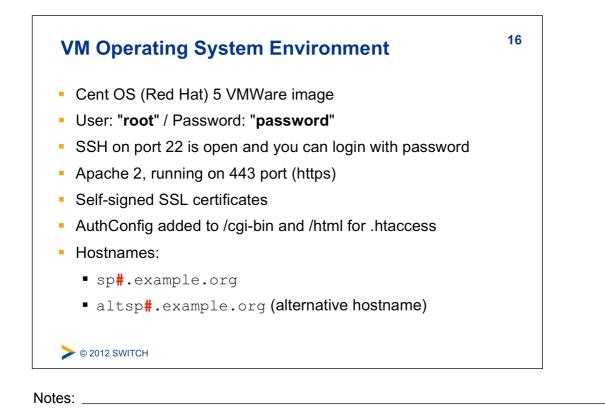
demouser/password		
Givenname surname:	Pierre Mustermann	
Affiliation:	staff	
Entitlements:	http://example.ch/res/99999	
	http://publisher-xy.com/e-journals	
demostudent/passwo	rd	
Givenname surname:	John Doe	
Affiliation:	student	
Entitlements:	http://channel8.msdn.com/user http://www.switch.ch/aai/agreement-2011	
demostaff/password		
Givenname surname:	Hans Muster	
Affiliation:	staff	
Entitlements:	http://unil.ch/aai/resources/biblio92 http://switch.ch/aai/agreement-01021	

SP Overview and Installation	13
 Goals: 1. Terminology and SP Overview 2. Installation and Directory Structure 3. Generating Key and Certificate 4. Quick Sanity Check 5. Picking an entityID 	
> © 2012 SWITCH Notes:	



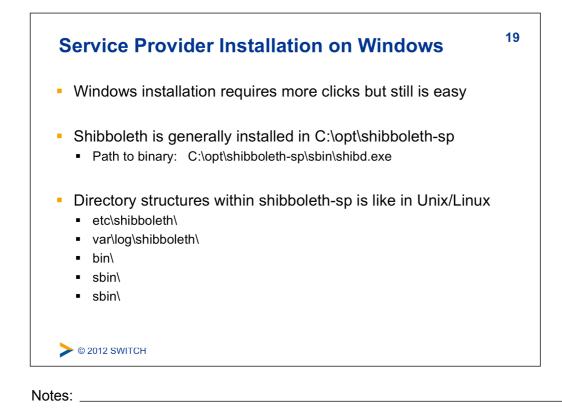
Notes: _

Terminology	15
 Service Provider (SP) 	
Consumes SAML assertions, protects web applications	
 Identity Provider (IdP) 	
Asserts digital identities using SAML	
 Discovery Service/WAYF (DS/WAYF) 	
Lets user choose Identity Provider/home organisation	
shibd (Shibboleth daemon)	
SP service/daemon for maintaining state	
 Session 	
Security context and cached data for a logged-in user	
 Session Initiator 	
Part of SP that controls how SSO requests are started	
See 2012 SWITCH	

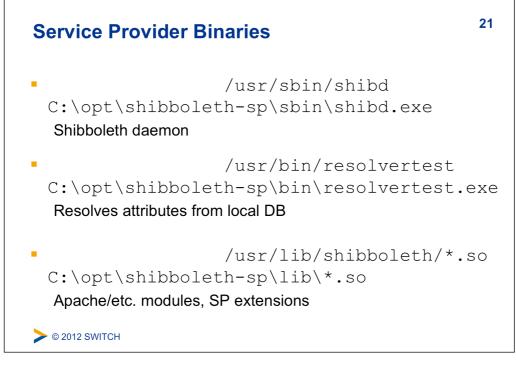


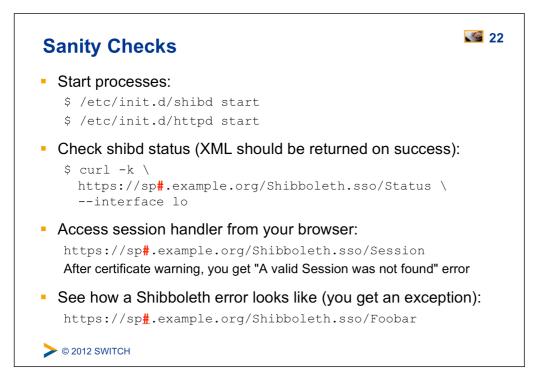
SWITCHaai Deployment Guides	17
 Hands-on session has a general focus 	
If you set up a production SP for SWITCHaai, please use <u>http://www.switch.ch/aai/support/serviceproviders/</u>	
 SWITCHaai guides are custom-tailored and easier! 	
© 2012 SWITCH	
Notes:	



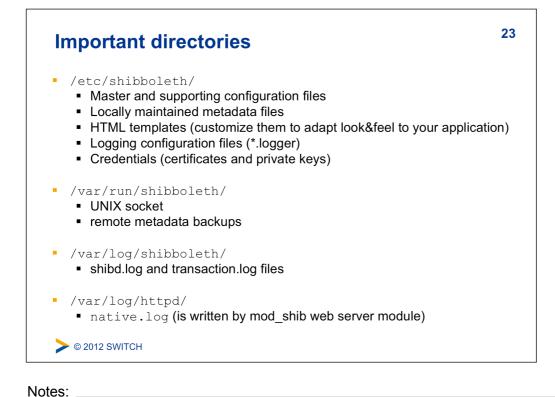


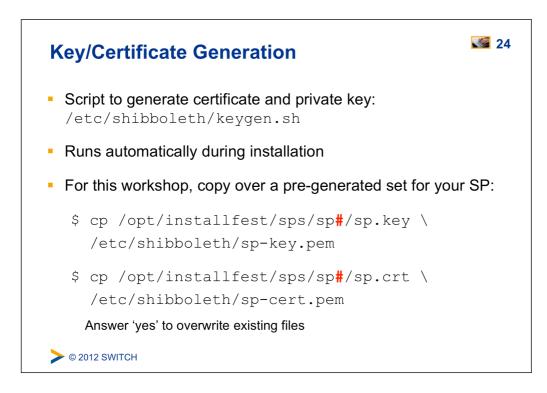
Service Provider Installation on VM Image	20
 Installation on your VM 	
RPM-based: \$ rpm -ivh /opt/installfest/distro/RPMS/*.rpm	
 Special files copied during shibboleth installation: apache22.conf copied to /etc/httpd/conf.d/shib.con shibd init script copied to /etc/init.d/shibd 	f
▶ © 2012 SWITCH	





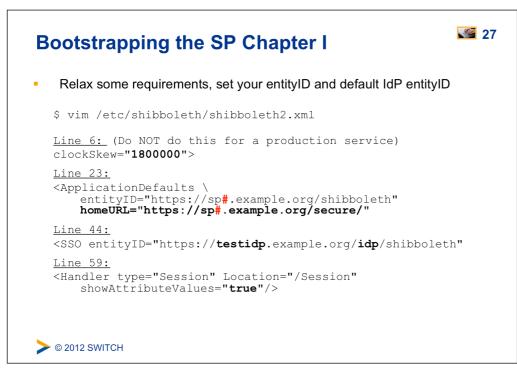
Notes: _



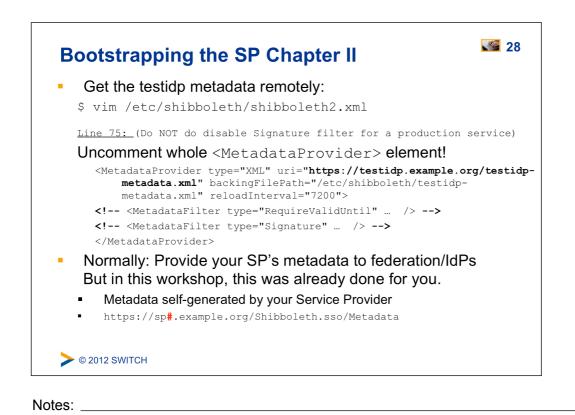


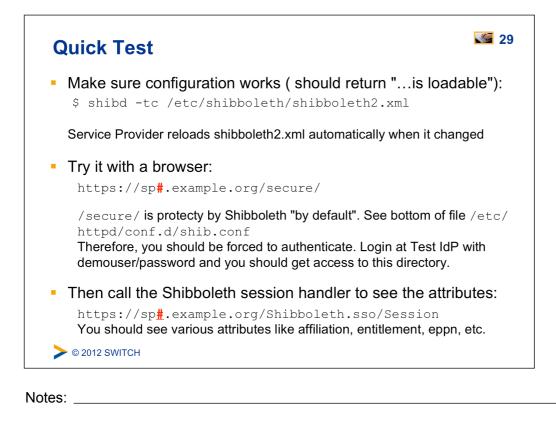
Boo	tstrapping the SP	25
Goa	s:	
	Make SP communicate with a single test IdP	
2.	Enable debugging of session attributes	
3.	Avoid clock skew complaints	
	ote: Some of the following steps won't be commented in etail because they are required only for bootstrapping and	
	ill be described later on.	
> © 2	012 SWITCH	

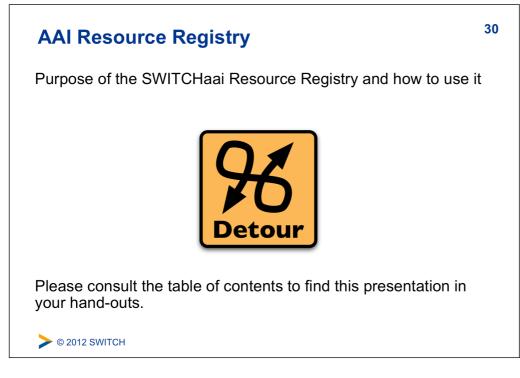
Picking an entityID for your SP	26
Every SP needs a unique identifier: The entityID	
 Where is entityID used? In transmitted messages, local configuration, metadata IdP log files, configuration, filtering policies 	
 Convention: Use FQDN of your service: https://sp#.example.org/shibboleth 	
 Why? Names should be: Unique, locally scoped, representative and unchanging 	
> © 2012 SWITCH	

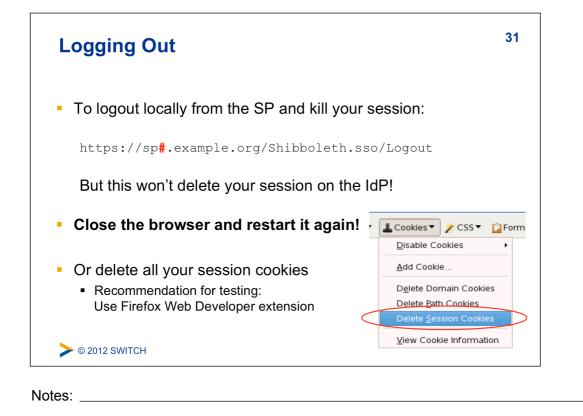


Notes: _









Alternatively, comment out on about 146 in shibboleth2.xml the SAML2 Logout Initiator

Use a Discovery Service (WAYF)	S 32
 Change the default SessionInitiator: \$ vim /etc/shibboleth/shibboleth2.xml 	
<pre>Line 44: <sso \<br="" discoveryprotocol="SAMLDS">discoveryURL="https://ds.example.org/DS/WAYF"/> SAML2 SAML1 </sso></pre>	
Remove the entityID attribute in the <sso> element in order to use a Discovery Service</sso>	
Restart Apache and Shibboleth \$ /etc/init.d/shibd restart \$ /etc/init.d/httpd restart > © 2012 SWITCH	



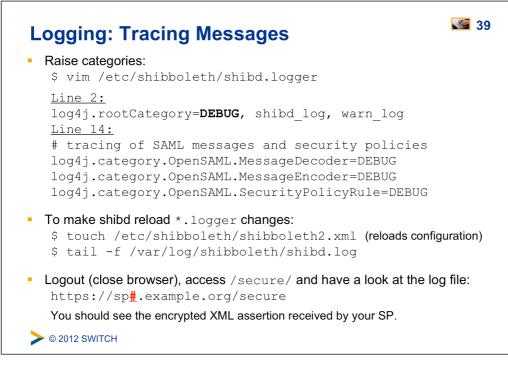
Basic Configuration	34
Goals:	
1. Understand purpose and structure of SP configuration file	S
2. Increase log level to DEBUG	
3. Configure metadata and add signature verification	
> © 2012 SWITCH	

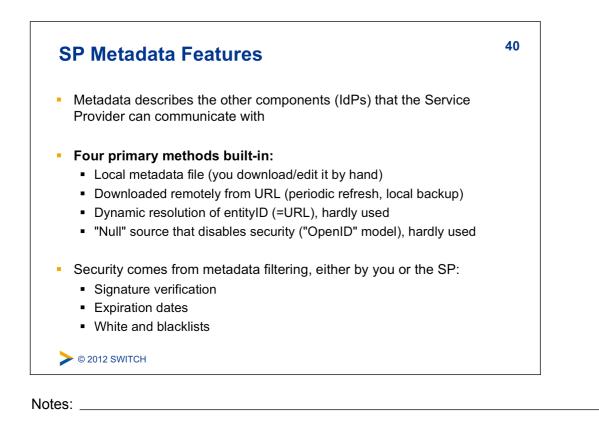
shibboleth2.xml - main configuration file	
apache*.config – Apache module loading	
attribute-map.xml - attribute handling	
attribute-policy.xml - attribute filtering settings	
*.logger – logging configuration	
*Error.html -HTML templates for error messages	
localLogout.html - SP-only logout template	
globalLogout.html - single logout template	
Recommendation:	
Adapting *.html files to match the look & feel of the protected	
application improves user experience.	
© 2012 SWITCH	

Shibboleth2	.xml Structu	ire	36
Since Shibboleth	2.4 configuration	n file is shorter.	
<spconfig></spconfig>			
Outer elements o	of the shibboleth.	xml configuration file	
<outofprocess> /</outofprocess>	<inprocess></inprocess>	Log settings of mod_shib and shibd	
<unixlistener> /</unixlistener>	<tcplistener></tcplistener>	How mod_shib and shibd communicate	•
<storageservice> <sessioncache> <replaycache> <artifactmap></artifactmap></replaycache></sessioncache></storageservice>			se)
<requestmapper></requestmapper>	Needed for session	initiation and access control	
<applicationdefa< th=""><th>ults> Contai</th><th>ns the most important settings of your SP</th><th></th></applicationdefa<>	ults> Contai	ns the most important settings of your SP	
<securitypolicie< th=""><th>s> Define</th><th>various security options</th><th></th></securitypolicie<>	s> Define	various security options	
Signal Street St	https://wiki.shibboleth.net	/confluence/display/SHIB2/NativeSPConfigurationEle	ments

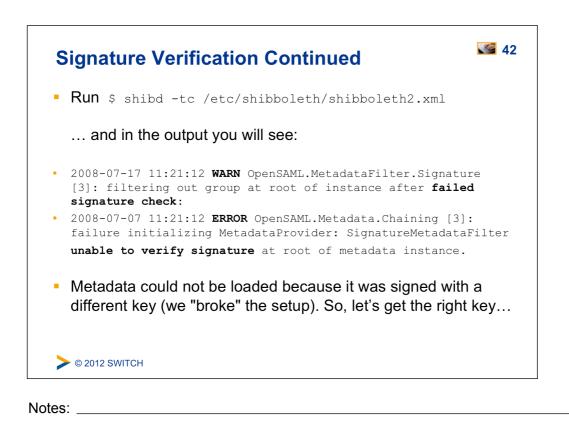
	plication	Defaults Structure	
Yc	ou are most l	likely to apply changes in <applicatior< th=""><th>nDefaults>:</th></applicatior<>	nDefaults>:
ł		Defines handlers and how sessions are initia ntains <sso>, <logout>, <handler></handler></logout></sso>	ated and
•		ed to display error messages. E.g. logo, ema	
1		v> (optional) To modify settings for certain IdF avider> Defines the metadate to be used by	
1		ovider> Defines the metadata to be used by actor> Attribute map file to use	IIIE OF
		olver> Attribute resolver file to use	
	,	r> Attribute filter file to use	
•	<credentialr< th=""><th>esolver> Defines certificate and private key</th><th>to be use</th></credentialr<>	esolver> Defines certificate and private key	to be use
	<applicationo certain applica</applicationo 	override> (optional) Can override any of the a ations	bove for
1			
·	© 2012 SWITCH	https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPC	ConfigurationElements

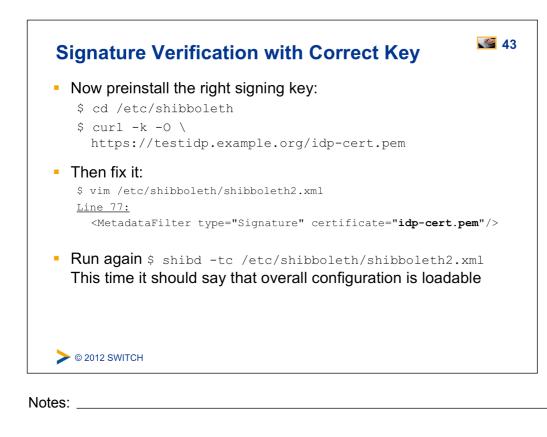
Logging	38
 Your number one friend in case of problems 	
shibd.log and transaction.log written by shibd, native.log written by mod_shib	
 *.logger files contain predefined settings for output locatio and a default logging level (INFO) along with useful categorie to raise to DEBUG 	
> © 2012 SWITCH	



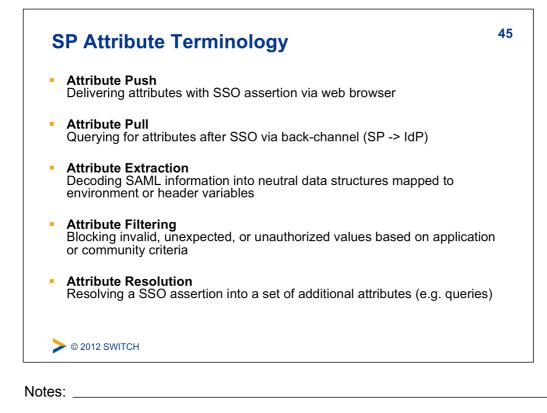


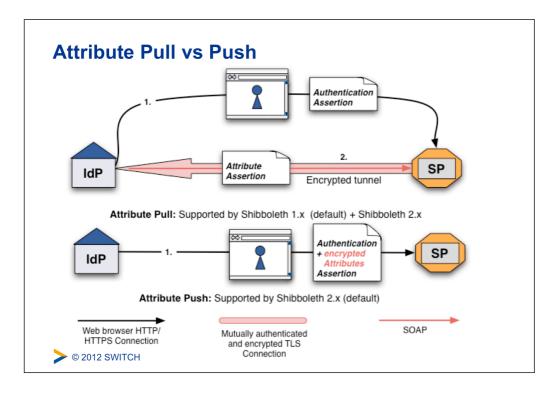






Attribute Handling	44
Goals:	
1. Understand how attributes are transported	
2. Learn how attributes are mapped and filtered	
3. See how attributes can be used as identifiers	
4. Add an attribute mapping and filtering rule	
Sourch	



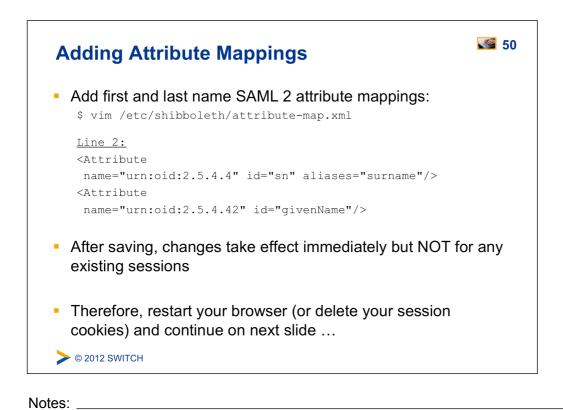


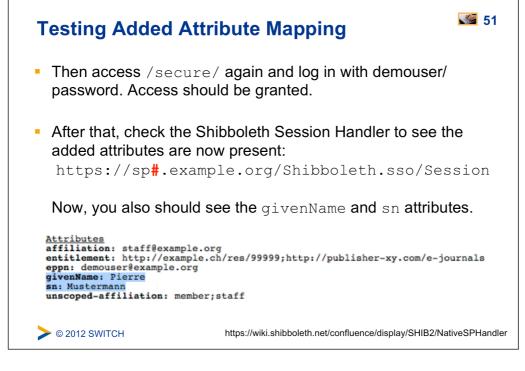
Scoped Attributes	47
 Common term for attributes that consist of a value and a scope, usually an organizational 	
E.g. affiliation = "faculty@mit.edu"	
 Makes values globally usable or unique 	
 Requires much special treatment in Shibbole more useful and "safe" 	th to make them
 Alternatively, split value and scope into separaffiliation="faculty" and homeOrganization This is the case in SWITCHaai 	
> © 2012 SWITCH	
Notes:	

Γ

Attribute Mappings	48
 SAML attributes from any source are "extracted" using the configuration rules in attribute map file in: /etc/shibboleth/attribute-map.xml 	
 Each element is a rule for decoding a SAML attribute and assigning it a local id which becomes its mapped variable name 	
 Attributes can have one or more id and multiple attributes be mapped to the same id 	can
 The id is also used as header name in the webserver for attribute. aliases are also mapped as header names. 	this
© 2012 SWITCH	

Dissecting an Advanced Attribute Rule	49
<pre><attribute aliases="aff scopedAffiliation" id="affiliation" name="urn:mace:dir:attribute-def:eduPersonScopedAffiliation"> <attributedecoder casesensitive="false" xsi:type="ScopedAttributeDecoder"></attributedecoder> </attribute></pre>	
 id The primary "id" to map into, also used in web server environment aliases Optional alternate names to map into name SAML attribute name or NameID format to map from AttributeDecoder xsi:type Decoder plugin to use (defaults to simple/string) caseSensitive How to compare values at runtime (defaults to true) 	
> © 2012 SWITCH https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPAttributeE	xtractor
lotes:	





Notes: _



REMOTE_USER	53
 Special single-valued variable that all web applications shous support for container-managed authentication of a unique us 	
 Any attribute, once extracted/mapped, can be copied to REMOTE_USER 	
 Multiple attributes can be examined in order of preference, be only the first value will be used. 	out
© 2012 SWITCH	
Notes:	

Г

Changing REMOTE_USER	54
 In case your application needs to have a remote user for authentication, you just could make shibboleth put an attribu (e.g. "mail") as REMOTE_USER: /etc/shibboleth/shibboleth2.xml 	te
<u>Line 25 in <applicationdefaults>:</applicationdefaults></u> REMOTE_USER= "mail eppn persistent-id targeted-id"	
 If mail attribute is available, it will be put into REMOTE_USE 	R
 Attribute mail has precedence over eppn in this case 	
 This allows very easy "shibbolization" of some web applicati © 2012 SWITCH 	ons

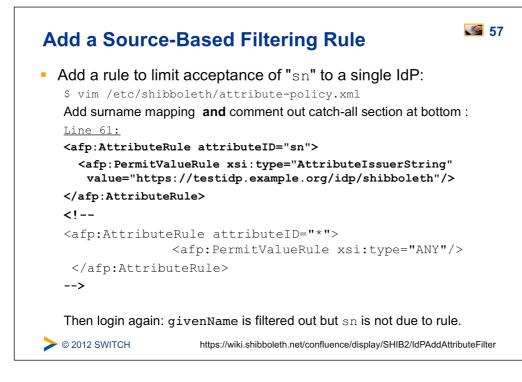
Attribute Filtering	55
 Answers the "who can say what" question on behalf of an application 	
 Service Provider can make sure that only allowed attributes and values are made available to application 	
 Some examples: constraining the possible values or value ranges of an attribute (e.g. eduPersonAffiliation, telephoneNumber,) limiting the scopes/domains an IdP can speak for (e.g. university x cannot assert faculty@university-z.edu) limiting custom attributes to particular sources 	
> © 2012 SWITCH https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPAttribute	Filter
otes:	

٦

Default Filter Policy	56
As default, attributes are filtered out unless there is a rul	le!
 Shared rule for legal affiliation values 	
 Shared rule for scoped attributes 	
 Generic policy applying those rules and letting all other attributes through 	
 Check /var/log/shibboleth/shibd.log for signs of filtering in case of problems with attributes not being availab You would find something like "no rule found, removing all values of attribute (#attribute name#)" 	ole.
> © 2012 SWITCH	

Notes: _____

Г



Notes:



Notes: _

Remove Specific Rule	59
Remove rule for (non-) acceptance of "sn": \$ vim /etc/shibboleth/attribute-policy.xml	
Delete rule for sn (lines 62-64)	
 Save file and access / secure again 	
 Now you should see the sn attribute again 	
Second Se	

Session Initiation	60
Goals:	
1. Learn how to initiate a Shibboleth session	
2. Understand their advantages/disadvantages	
3. Know where to require a session, what to protect	
> © 2012 SWITCH	

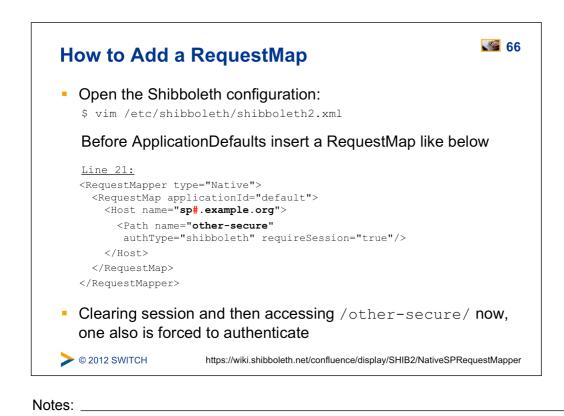


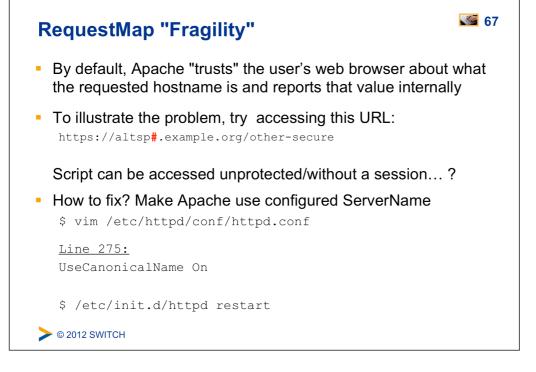
Content Protection Settings	62
Protect hosts, directories, files or queries	
 Apache .htaccess (dynamic) or httpd.conf (static) 	
 Apache / IIS / other <requestmap> in shibboleth2.xml Requires Shibboleth to know exact hostname Very powerful and flexible thanks to boolean/regex operations </requestmap> 	
 Try accessing https://sp#.example.org/other-secure/ You should get access because the directory is not protected (yet) 	
SWITCH https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPAccessC	Control

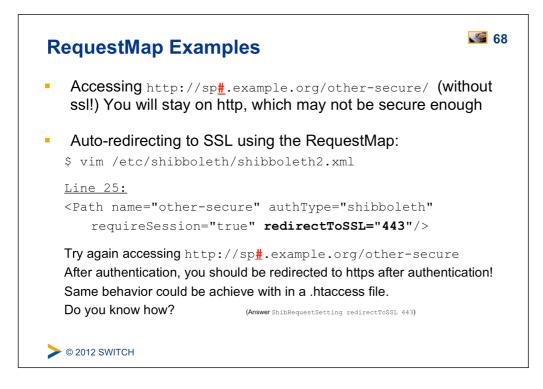
•	the directory by re ww/html/other-se	equiring a Shibbolet	h session:
AuthType shil			
require shibb ShibRequestSe	ooleth etting requireSe	ession 1	
Synonym for the	last line (used in Shi	bboleth 1.3, deprecated):
ShibRequireSe	ession On		
Rules could also	be in static httpd cor	figuration file directly, s	ee
/etc/httpd/co	onf.d/shib.conf	(default rule for /sec	cure/)
	https://wiki.shibbolot	h.net/confluence/display/SHIB2/N	lativeSPAnacheConfi

Т	est Content Protection Rule	S 64
•	Clear session and then access as demouser the URL: https://sp#.example.org/other-secure	
•	Authentication is enforced and access should be granted	ł
•	Currently, all authenticated users get access	
ł	Content protection to limit access only to specific users will be covered later	
	© 2012 SWITCH	

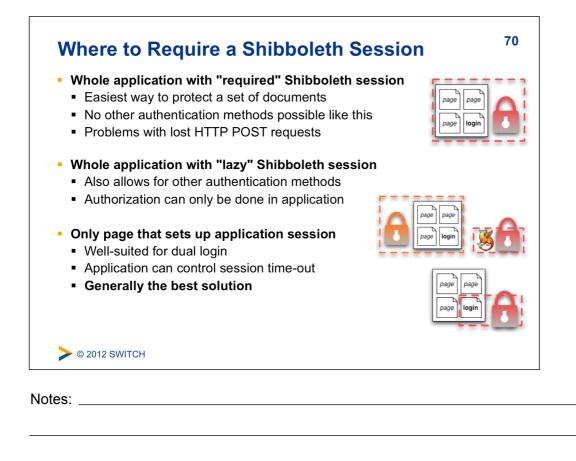
Content Protection with RequestMap	S 65
 mod_shib provides request URL to shibd to proccess it Therefore, shibd can enforce access control as well This is required for IIS web servers 	
 First ensure that requests for other-secure are handled by shibd wit setting any specific session requirements 	hout
<pre>\$ vim /var/www/html/other-secure/.htaccess</pre>	
AuthType shibboleth require shibboleth	
> © 2012 SWITCH https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPRe	questMapper
es:	



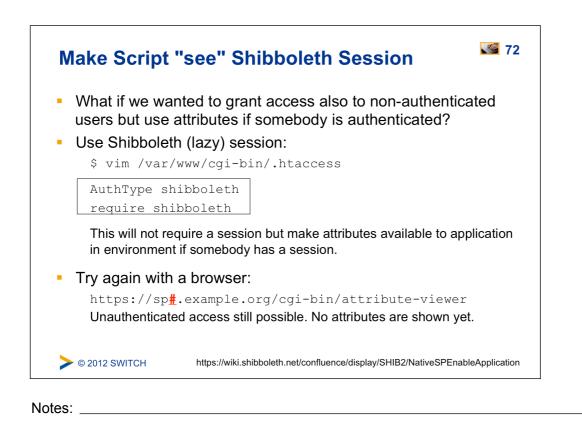


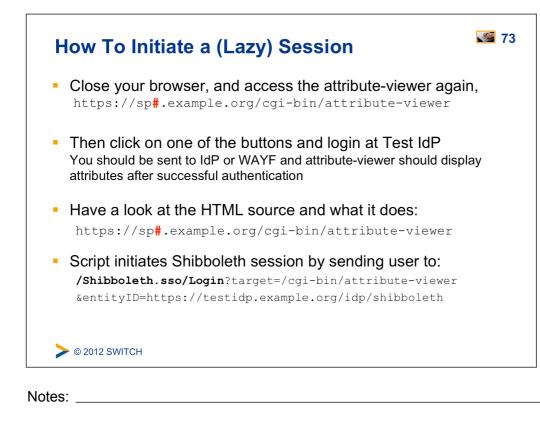


Other Conten	t Settings	69
 Requesting type 	es of authentication	
 E.g enforce X.5 	509 user certificate authentication	
 Custom error has 	andling pages to use	
Redirection-bas	ed error handling	
	rror, redirect user to custom error web page with error as GET arguments	
forceAuthn		
 Disable Single- 	Sign on and force a re-authentication	
isPassive		
	a user has an SSO session and if he has, automatica n on SP without any user interaction	lly
 Use a specific loss 	dP to use for authentication	
> © 2012 SWITCH	https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPContentSet	ettings

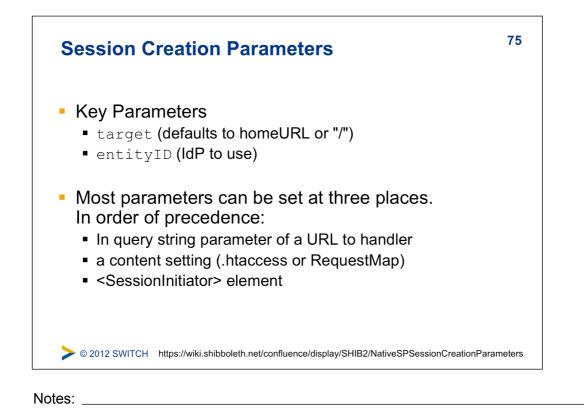


Protect a Simple Web Application	Sec. 71
 Access https://sp#.example.org/cgi-bin/ Simple CGI script as a sample application th 	
 Lets protect that script with Shibboleth by re \$ vim /var/www/cgi-bin/.htaccess 	quiring a session:
AuthType shibboleth ShibRequestSetting requireSession 1 require shibboleth	
This will require a session for all requests to /cgi attributes available to application in environment.	-bin/ and make
 Try again to access script with a browser: Script should now display some attributes 	
> © 2012 SWITCH	
es:	





Try to Initiate a Session Yourself	V 74
 Try to construct a Session Initiation URL your these parameters to see the result: e.g. try su https://sp#.example.org/Shibboleth.sso/Login? target=https://sp#.example.org/cgi-bin/attribut entityID=https://testidp.example.org/idp/shibbo 	pplying the IdP:
 This way, a session using a specific IdP can be with a link, e.g. on a portal web page. 	be initiated directly
 This allows creating "login links" to skip the W Service 	/AYF/Discovery
 It also allows overriding certain content setting 	gs
> © 2012 SWITCH	



Lazy Sessions Summary	76
 Won't enforce a Shibboleth session but use it if it is available If valid session exists then process it as usual (put attributes in server environment, etc.) but if a session does NOT exist or is invalid, ignore it and pass on control to application 	,
 Three common cases: Public and private access to the same resources Separation of application and SP session Dual login (use Shibboleth and some other authentication method) 	
> © 2012 SWITCH	
► © 2012 SWITCH	

Using Lazy Sessions	77
In place of an API to "doLogin", the SP uses redirects: https://testspl.example.org/Shibboleth.sso/Login	
 When you/your application want a login to happen, redirect t browser to a SessionInitiator (/Login by convention) with a parameters you want to supply 	
> © 2012 SWITCH	
Notes:	

Some Concerns Reg	arding Dual Login	78
 Can be a viable option in o by non-Shibboleth users 	case application must also	be used
-	the users how to authenticate shouldn't enter their password	in the login
© 2012 SWITCH		

Notes: _____

Г

	Virtual Home Organization and Guest Login 79
	Excursion about dealing with user who don't have an AAI account already.
	96 Detour
	Please consult the table of contents to find this presentation in your hand-outs.
	> © 2012 SWITCH
Nc	otes:

Access Control	80
Goals:	
1. Create some simple access control rules	
2. Get an overview about the three ways to authorize users	
3. Understand their advantages/disadvantages	
> © 2012 SWITCH	

Notes:

rvice Provider via an AccessControl API built processing flow
tions are provided by the SP: re" rule processing ry syntax attached to content via RequestMap
grate access control into web application
https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPAccessControl

1.a httpd.conf	1.b .htaccess	2. XML AccessControl *	3. Application Access Contro
 Easy to configure Can also protect locations or virtual files URL Regex 	 Dynamic Easy to configure 	 Platform independent Powerful boolean rules URL Regex Dynamic 	 Very flexible and powerful with arbitrarily complex rules URL Regex Support
 Only works for Apache Not dynamic Very limited rules 	 Only works for Apache Only usable with "real" files and directories 	 XML editing Configuration error can prevent SP from restarting 	 You have to implement it yourself You have to maintain it yourself

Notes: _____

Г

Side note: Aliases	83
<pre>If in the attribute-map.xml file, there is a definition like:</pre>	
 Allows using aliases in access control rules like: require affiliation staff instead of: require Shib-EP-Affiliation staff 	
Aliases can also be used in RequestMap	
> © 2012 SWITCH https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPAttributeE	xtractor
Notes:	

•	Work almost like known Apache "require" rules E.g require affiliation staff or require mail lukas@testidp.com chad@otheridp.org	
•	<pre>Special rules: shibboleth (no authorization) valid-user (require a session, but NOT identity) user (REMOTE_USER as usual) authnContextClassRef, authnContextDeclRef</pre>	
•	Default is boolean "OR", use ShibRequireAll for AND rule	
•	Regular expressions supported using special syntax: require rule ~ exp e.g. require mail ~ ^.*@(it faculty).example.org\$	

Notes: _____

Г

Require a use	er to be a staff member:	
\$ vim /var/v	www/html/staff-only/.htaccess	
AuthType sh:	ibboleth	
ShibRequests	Setting requireSession 1	
require unso	coped-affiliation staff	
	<pre>https://sp#.example.org/staff-only/ password. Access should be granted.</pre>	
with demouser/	password. Access should be granted. ame again with demostudent/password	d
with demouser/ Then try the s	password. Access should be granted. ame again with demostudent/password	d

<pre>\$ vim /var/www/html/student</pre>	or to have an entitlement:
AuthType shibboleth	
ShibRequestSetting requires	Session 1
require unscoped-affiliatio	
require entitlement ~ .*agr	
Then access : https://sp#.exampl	s should be granted.

Solutions for Access Control and Authorization ⁸⁷
Excursion about using the Group Management Tool (GMT) or the SWITCHtoolbox.
96 Detour
Please consult the table of contents to find this presentation in your hand-outs.
> © 2012 SWITCH
Notes:

Г

2. XML Access Control	88
 Can be used for access control independent from web server and operating system 	
 XML Access control rules can be embedded inside RequestMap or be dynamically loaded from external file 	
 Boolean operators (AND,OR,NOT) can be used 	
 .htaccess files can reference to XMLAccessControl files Allows outsourcing access control rules to non-root users 	
> © 2012 SWITCH	
Notes:	

_





Notes: _

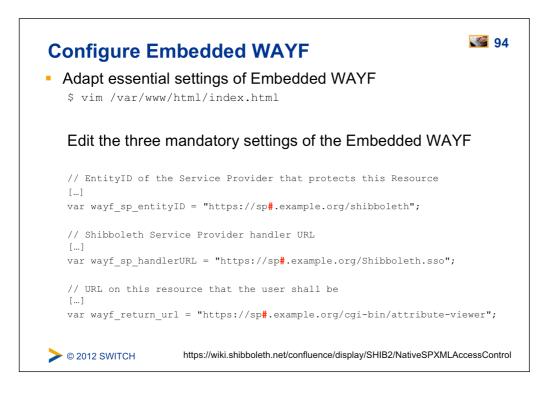
Embedded WAYF and Discovery Service	91
Excursion about the Embedded WAYF and alternative Discovery Services	r
96 Detour	
Please consult the table of contents to find this presentation in your hand-outs.	
> © 2012 SWITCH	
Notes:	

Using the SWITCHaai Embedded WAYF	92
Goals:	
1. Add a Discovery Service/WAYF to a HTML web page	
2. Configure Embedded WAYF	
3. Learn about alternatives to Embedded WAYF	
> © 2012 SWITCH	

Notes: _____

How to Add Embedded WAYF	93
 In web browser open: <u>https://ds.example.org/DS/WAYF/embedded-wayf.js/snippe</u> 	<u>ət.txt</u>
 Copy the whole HTML snippet 	
 Then open /var/www/html/index.html in \$ vim /var/www/html/index.html Paste the copied text at line 15 	
Line 19: EMBEDDED-WAYF-START <script type="text/javascript"><! // To use this JavaScript, please access: // https://ds.example.org/DS/WAYF/embedded-wayf.js/snippet.html // and copy/paste the resulting HTML snippet to an unprotected we that []</td><td>eb page</td></tr><tr><td>> © 2012 SWITCH https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPXMLAcce</td><td>ssControl</td></tr></tbody></table></script>	

Notes:



Notes:

 Select the Test Identity Provider in the drop-down list Authenticate with demostudent/password You should see access to the attribute-viewer Go back to https://sp#.example.org/ Note how the Embedded WAYF now looks different Change some of the Recommended Settings of the Embedded WAYF in /var/www/html/index.html for fun. E.g. color or size 	9 5
 You should see access to the attribute-viewer Go back to https://sp#.example.org/ Note how the Embedded WAYF now looks different Change some of the Recommended Settings of the Embedded 	
 Note how the Embedded WAYF now looks different Change some of the Recommended Settings of the Embedded 	
© 2012 SWITCH https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPXMLAccess	sControl

Service Provider Handlers	96
Goals:	
1. Understand the idea of a handler	
2. Get an overview about the different types of handlers	
3. Know how to configure them if necessary	
> © 2012 SWITCH	

Notes: _____

"Virtual" applica	tions inside the SP with API access:
 SessionInitiator (r 	
	erService (incoming SSO) issertions: /Shibboleth.sso/SAML/POST
 LogoutInitiator (SI Log out from SP: 	P signout) /Shibboleth.sso/Logout
 SingleLogoutServ 	ice (incoming SLO)
 ManageNameIDS 	Service (advanced SAML)
 ArtifactResolution 	Service (advanced SAML)
 Generic (diagnost 	ics, other useful features)
Returns session	ninformation: /Shibboleth.sso/Session
Returns detailed	d SP status:/Shibboleth.sso/Status
Returns SP met	tadata:/Shibboleth.sso/Metadata
© 2012 SWITCH	https://wiki.shibboleth.net/confluence/display/SHIB2/NativeSPHan

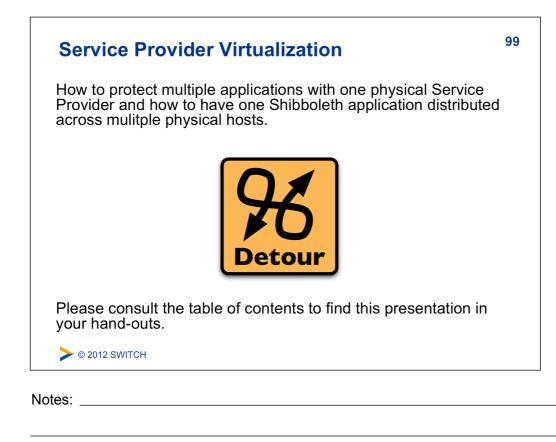
_

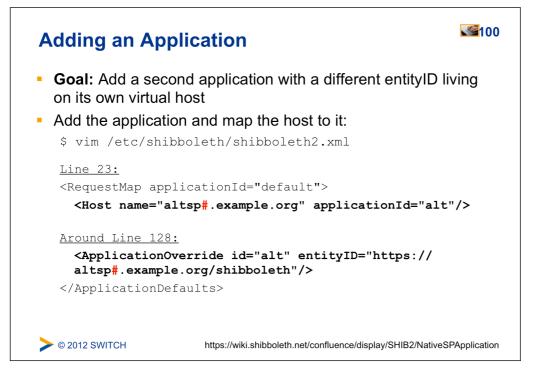
SP Handlers	98
 The URL of a handler = handlerURL + the Location of the handler. E.g. for a virtual host testsp.example.org with handlerURL of "/ Shibboleth.sso", a handler with a Location of "/Login" will be https://testsp1.example.org/Shibboleth.sso/Login 	
 Handlers aren't always SSL-only, but usually should be Recommende to set handlerSSL="true" in shibboleth2.xml 	d
 Metadata basically consists of entityID, keys and handlers 	
 Handlers are never "protected" by the SP But sometimes by IP address (e.g. with acl="127.0.0.1") 	
> © 2012 SWITCH	

Notes: _____

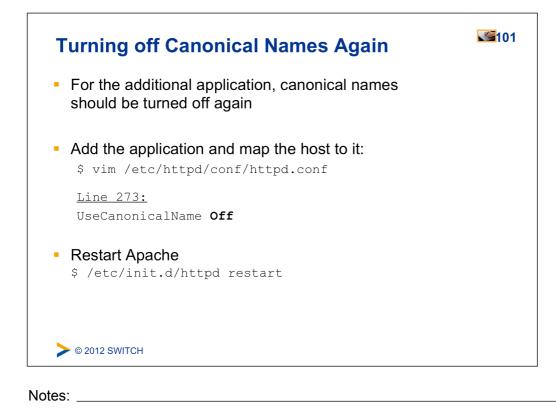
Г

Γ





Notes: _



Test Added Application	102
In order to test the added application, access	
https://altsp <mark>#</mark> .example.org/secure/	
authenticate and check the log file with:	
<pre>\$ less /var/log/shibboleth/shibd.log</pre>	
 The IdP will release only givenName and surname to all SPs whose entityID matches "https://altsp.* " Therefore, the logical SP with entityID https://altsp#.example.org/shibboleth/ only get these two attributes. 	
> © 2012 SWITCH	
otes:	