
BdREN fDLuDCf Project

TTT – 2

asi@connect and NORDUnet support

Zoom Integration with the NREN Identity Federation

Introductory Session

14th November 2019
(10am to 11am)

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Introduction

- BdREN fDLuDCf Project
 - Facilitation Distance Learning using Digital Conferencing facility
 - Principal Investigator: CEO, BdREN
 - Core Investigator: CEO, NORDUnet
 - Participating NRENs
 - Bangladesh, Bhutan, Nepal, Philipines, Sri Lanka and Thailand
 - Many activities, more details at
 - <https://dle.asiaconnect.bdren.net.bd/project-information/>
- Zoom (Conferencing Platform)
 - Software based platform
 - For
 - conferencing/meetings, chat and mobile communication
 - Webinars
 - conference room (Zoom room)

Zoom Meeting/Conference Room

- Zoom room connector
- With Zoom room equipment



Zoom Facility

- For each NREN
 - 1000 Pro accounts
 - Several webinar licenses
 - Several Zoom room licenses
 - Several H.323/SIP room connectors

Zoom Administrator Accounts

- **Zoom administrator account**
 - One or few based on requirement
 - Sub admin accounts pending in zoom development
 - Zoom admin has to create and manage accounts for everybody (1000 accounts)

Zoom integration with NREN identity Federation

- Technology used SAML (ver 2)
 - SAML
 - Security Assertion Markup Language (SAML) is an open standard that allows identity providers (IdP) to pass authorization credentials to service providers (SP)
- What is required ?
 - IDP – Identity provider(s) – maintained by your campuses
 - SP – Service provider(s) (service Zoom by maintained Zoom)
 - Federation Registry – NREN has to maintain
 - All **IDPs** have to be registered
 - All **SPs** have to be registered

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- Virtual Sessions
 - Introductory Session
 - Setting up identity registry (Jagger)
 - <https://github.com/LEARN-LK/IAM/blob/rr3/rr3.md>
 - Install and Configure LDAP for IDB
 - Optional – LXC for moth idb and idp on same hardware or vm
 - <https://ws.learn.ac.lk/wiki/TutorialSetupLXC>
 - <https://github.com/LEARN-LK/IAM/blob/master/Ldap-with-eduperson.md>
 - Setting up IDP (Shibboleth)
 - <https://github.com/LEARN-LK/IAM/blob/master/IDPonUbuntu.md>

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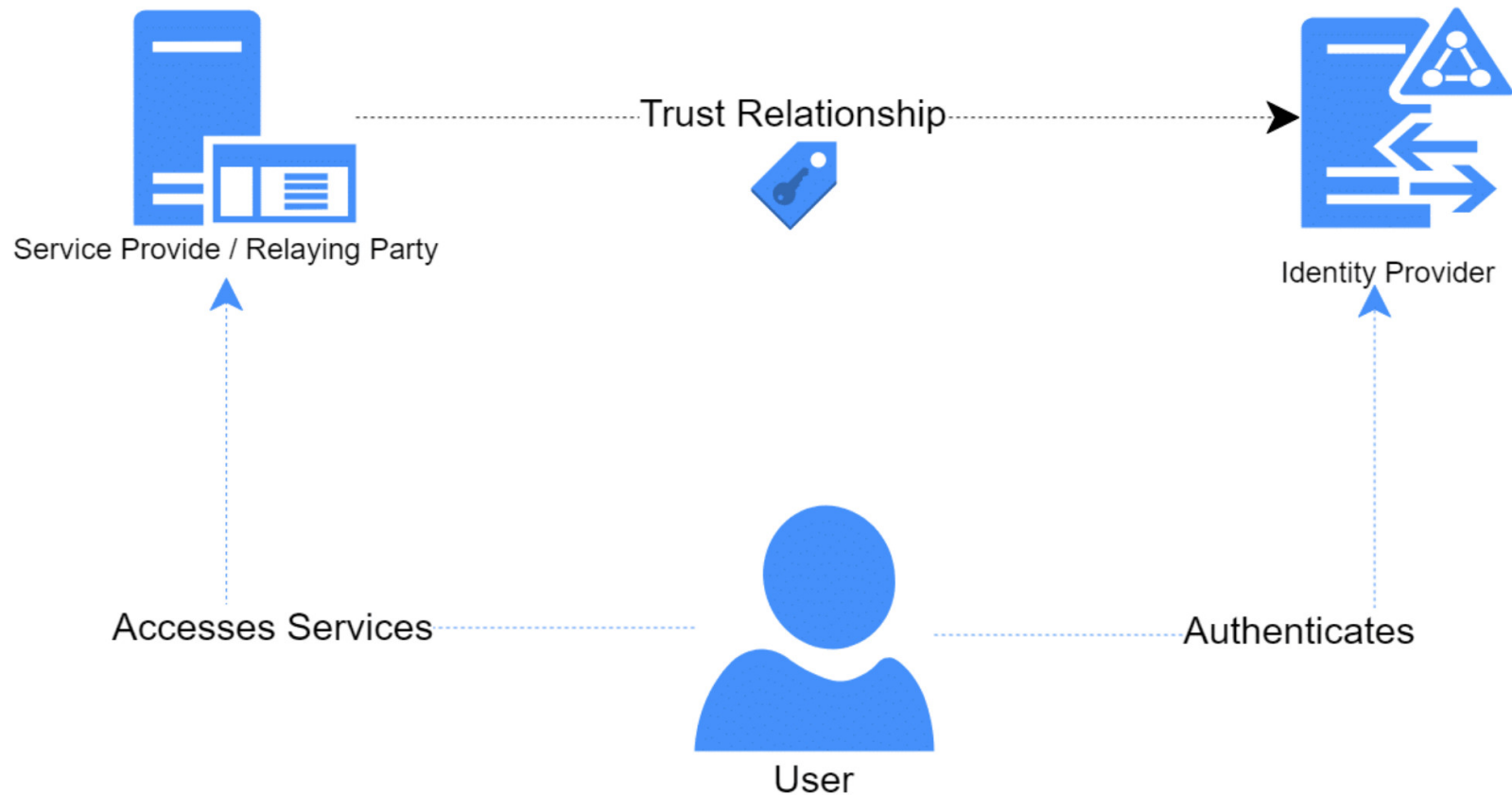
- Physical Sessions
 - Setting up Satorosa proxy for Zoom
 - <https://github.com/LEARN-LK/IAM/blob/master/Satorosa-Proxy-to-Zoom.md>
 - Zoom SSO configuration
 - Live demonstration

Identity Federation

- Three Components
 - 1. Federation Registry
 - *Jagger*
 - 2. IDB and IDP – Identity provider service along with identity database
 - *LDAP and Shibboleth*
 - 3. Service Providers
 - *In our case, it is Zoom*

Identity Federation

- Trust Relationship



Prerequisite

- Basic Linux administration experience
 - Installing Linux OS (with partitioning disk, network configuration)
 - Ubuntu 18.04 LTS (support until April 2023)
 - OS package management (installation and upgrading)
 - General shell commands
 - Editing text files (configuration file) using VIM or NANO editor

Prerequisite

- Hardware
 - For NREN
 - Federation registry and Discovery Service
 - Intel/AMD Server (PC) or VM with 8GB RAM, 100GB disk
 - Satsosa proxy
 - Intel/AMD Server (PC) or VM with 8GB RAM, 50GB disk
 - For NREN office IDP
 - Intel/AMD Server (PC) or VM with 8 GB RAM, 100GB disk
 - For Institutional side (LDAP and Shibboleth)
 - Intel/AMD Server (PC) or VM with 8 GB RAM, 200GB disk

Lanka Education and Research Network

Thank You

Q & A

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