

Working Group Report

Resources Working Group

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Agenda of breakouts

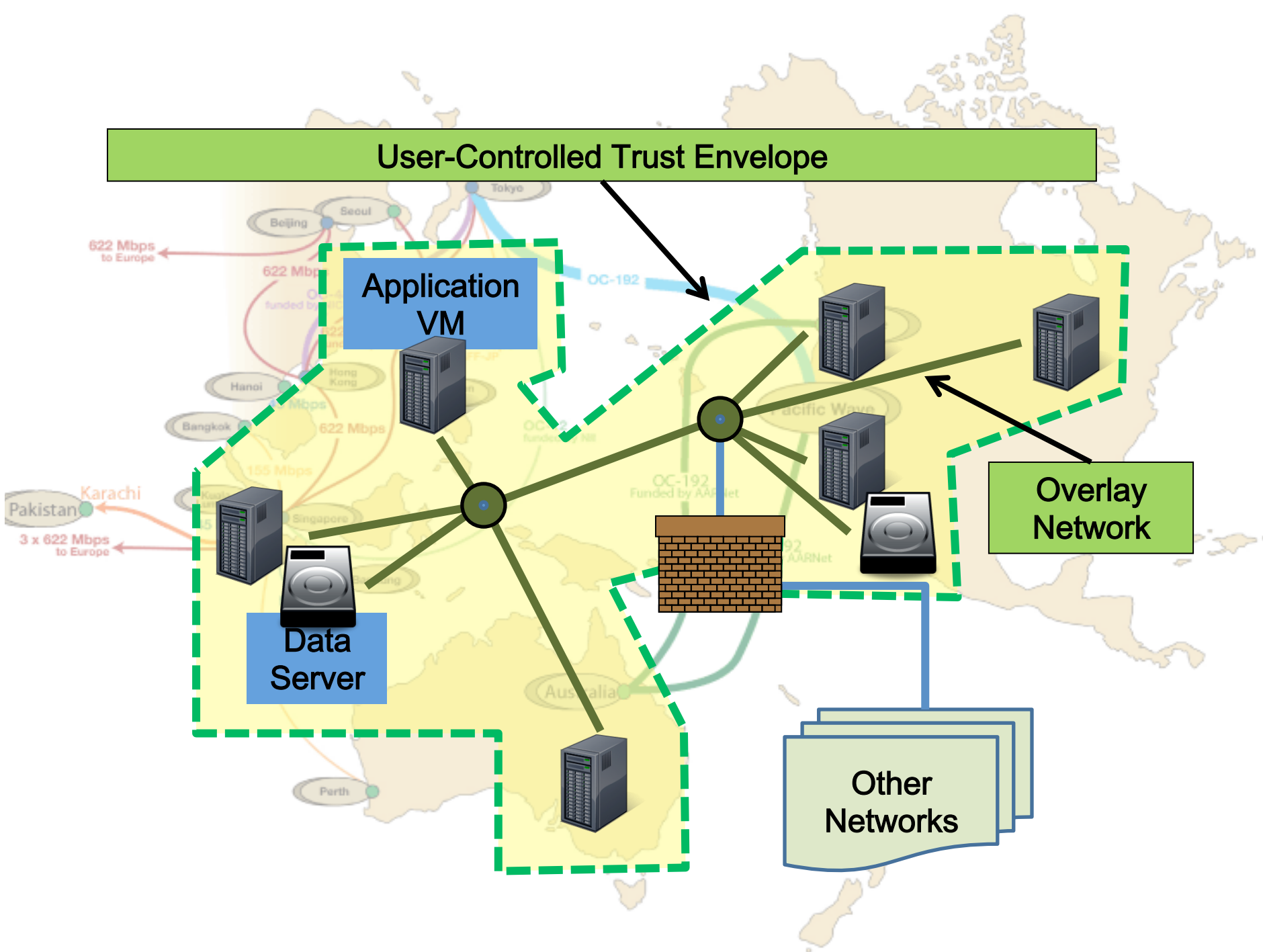
- Thursday 15:00-16:30
 - Discussion: VC sharing
 - Demo by AIST
 - Discussion for improvements and next steps
- Friday 11:30-13:00
 - Talk
 - Research activities at Anna University (Prof. S.Thamarai Selvi)
 - Discussion: Identify issues and people who will be working on
- Friday 14:40-16:00
 - Demos
 - IPOP: Self-configuring IP-over-P2P Overlay-based Virtual Private Networking (Pierre St Juste)
 - Network throughput-aware routing for Pragma Cloud (Kohei Ichikawa, et.al.)

Summary of VC Sharing Discussion

- Demonstrated booting VC images on two cloud hosting environments.
 - Rocks/KVM by SDSC
 - OpenNebula/KVM by AIST
- Next steps
 - Review the design of the scripts and re-implement by python.
 - Do this in San Diego in July (SDSC, AIST, NCHC).
 - Detailed schedule TBD.
 - Anybody interested in is welcome to join.
 - SDN integration with VC (NAIST/Osaka)

Summary of the 2nd day Discussion

- Scenario: Three different labs want to share computing and data
 - What are the resources (data, computing)
 - How do they author their software structure (VM/VC) to do what they need (e.g. LifeMapper Compute Nodes)
 - How do they provide network privacy
 - How do they control their distributed infrastructure



Let's Talk

Issue/Area	Who?	Initial Ideas/Plans
Resource Broker Identify Resources Resource Registry	Thamarai (Anna U)	
Identify Management (Incommon/CILogin, GoogleID? OpenID	Yoshio, Aimee, Weicheng	
Controlling Infrastructure	Phil, Nadya, Mauricio	
Monitoring of Infrastructure Global view	– Not yet	
Integrated Definition/ Construction	Phil, Mauricio, Nadya	
Reliability – of data Distribution Failure of remote VM/VC		
What happens if an outsourced service goes away (eg. googleID)		

Issue/	Who	Ideas/Plans
What ARE we doing about data? What level do we want to address	Reed,Yoshio, Aimee, Nadya	
Integrating public, semi-private, private data resources	Reed,Yoshio, Aimee, Nadya	
What Data/Software does PRAGMA “Publish” ? And How	Everyone	
Is there Temporary Data Storage at Remote Resource Providers?	Rajeev – Identification of Replica selection strategies (existing SW/research)	
Scaling Limits (practical) of PRAGMA cloud? What are steps to simplify expansion?		
Integrate Data Provenance into PRAGMA resources. How to utilize the Provenance info	Indiana Lab	
Hierarchical Map Reduce	Yuan	