

Component-based system for management of multilevel virtualization of networking resources

System komponentowy wspomagający wielopoziomą
wirtualizację zasobów sieciowych

Robert Boczek Dawid Ciepliński

prof. dr hab. inż Krzysztof Zieliński

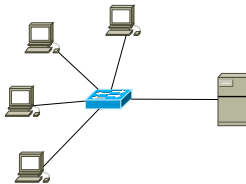
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The environment

1. „Physical”

5 Logical Domains connected with a vswitch:

- ▶ dedicated NFS server node (virtual appliance snapshot storage)
- ▶ 4 worker nodes



2. Software = JMX-enabled Monitoring System (JIMS)

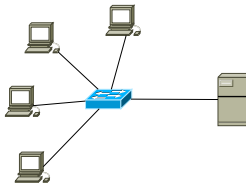
- ▶ Solaris resource monitoring & management (containers)
- ▶ peer discovery
- ▶ shared codebase

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Native libraries

`libdladm-` and `libflowadm-`based native libraries.

- ▶ `lib-link`
- ▶ `lib-etherstub`
- ▶ `lib-flow`
- ▶ `lib-vlan`

Allow for higher-level operations (CRUD) for etherstubs, (V)NICs, VLANs and flows. Still native, with minimum external dependencies.

MBeans

Two kinds:

1. managers: entity discovery & general management
2. entities: fine-grained control (properties, statistics)

Bidirectional operations.

Components (simplified)

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Remaining work

1. statistics, charts (ongoing)
2. parallelization
3. usability improvements
4. bug fixing