



Client₁

{ chrome, ssh, mysql }

Encrypt

{ chrome, ssh, mysql }



Client₂

{ chrome, firefox, ssh, mysql }

Encrypt

{ chrome, firefox, ssh, mysql }

$\mathcal{P}_{\text{global}}$

{ chrome, ssh, mysql, firefox }

$\psi(p)$

Categorization

K_1 : {chrome, mysql}

K_2 : {ssh, firefox}

Utility Server



Client₁

Decrypt

Provenance Subgraphs
{PGClient₁,...,PGClient₂}



Client₂

Decrypt

Provenance Subgraphs
{PGClient₁,...,PGClient₂}