

LAMPIRAN

Lampiran 1. Data penelitian

```
google_compute_firewall.default:
  id = tf-www-firewall
  allow.# = 1
  allow.272637744.ports.# = 1
  allow.272637744.ports.0 = 80
  allow.272637744.protocol = tcp
  description =
  name = tf-www-firewall
  network = default
  project = kubernetes-syaiful
  self_link = https://www.googleapis.com/compute/v1/projects/kubernetes-syaiful/global/firewalls/tf-www-firewall
  source_ranges.# = 1
  source_ranges.1080289494 = 0.0.0.0/0
  source_tags.# = 0
  target_tags.# = 1
  target_tags.365508689 = web
google_compute_forwarding_rule.default:
  id = tf-www-forwarding-rule
  backend_service =
  description =
  ip_address = 104.155.113.82
  ip_protocol = TCP
  load_balancing_scheme = EXTERNAL
  name = tf-www-forwarding-rule
  network =
  port_range = 80-80
  ports.# = 0
  project = kubernetes-syaiful
  region = europe-west1
  self_link = https://www.googleapis.com/compute/v1/projects/kubernetes-syaiful/regions/europe-west1/forwardingRules/tf-www-forwarding-rule
  subnetwork =
```

```
target = https://www.googleapis.com/compute/v1/projects/kubernet-
syaiful/regions/europe-west1/targetPools/tf-www-target-pool
google_compute_http_health_check.default:
  id = tf-www-basic-check
  check_interval_sec = 1
  description =
  healthy_threshold = 1
  host =
  name = tf-www-basic-check
  port = 80
  project = kubernet-syaiful
  request_path = /
  self_link = https://www.googleapis.com/compute/v1/projects/kubernet-
syaiful/global/httpHealthChecks/tf-www-basic-check
  timeout_sec = 1
  unhealthy_threshold = 10
google_compute_instance.app:
  id = tf-app
  can_ip_forward = false
  create_timeout = 4
  disk.# = 1
  disk.0.auto_delete = true
  disk.0.device_name =
  disk.0.disk =
  disk.0.disk_encryption_key_raw =
  disk.0.disk_encryption_key_sha256 =
  disk.0.image = ubuntu-os-cloud/ubuntu-1404-trusty-v20160314
  disk.0.scratch = false
  disk.0.size = 0
  disk.0.type =
  machine_type = f1-micro
  metadata.% = 1
  metadata.ssh-keys = root:ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDM2oIISKysPmx3zm8n/uDSLdzncRC0x9INnHuF3rS603w4JRy
nh6DCD2I3NeWHU3Bw5t+x/S+YbsT4q5FrzjLTQoZ9xjj+g065Gvte5KbdARwf3YN76LDXd+3B3PQ/D8
kj5ARaaQYBIAVztC0vnAWhCXgfBmqV5tXBMgAvhM5SIcNBXrkymyK5rLJJk/QPihg8hNA9Y/jb3In9G
kz0DcE9/2s3IvjuiH2o/43kyw5iUxm08oyubxBaf0cbhvL8taA/BIH2h0ERCYVWB5cYTW10k6QHMAfw
sYuHnLUMAN+0yW6+x0E0ocqBA5yFbS66062iGX27wTUGjz5s33L3sgnx nugroho@nugroho-X455LF

  metadata_fingerprint = c0gwtCVswtg=
```

```
name = tf-app
network.# = 0
network_interface.# = 1
network_interface.0.access_config.# = 1
network_interface.0.access_config.0.assigned_nat_ip = 104.199.29.53
network_interface.0.access_config.0.nat_ip =
network_interface.0.address = 10.132.0.2
network_interface.0.name = nic0
network_interface.0.network = default
network_interface.0.subnetwork =
network_interface.0.subnetwork_project =
self_link = https://www.googleapis.com/compute/v1/projects/kubernetsyaiful/zones/europe-west1-b/instances/tf-app
service_account.# = 1
service_account.0.email = 753580818943-compute@developer.gserviceaccount.com
service_account.0.scopes.# = 1
service_account.0.scopes.2862113455 =
https://www.googleapis.com/auth/compute.readonly
tags.# = 1
tags.3379458255 = app
tags_fingerprint = -ITvbwD_xo=
zone = europe-west1-b
google_compute_instance.www.0:
id = tf-www-0
can_ip_forward = false
create_timeout = 4
disk.# = 1
disk.0.auto_delete = true
disk.0.device_name =
disk.0.disk =
disk.0.disk_encryption_key_raw =
disk.0.disk_encryption_key_sha256 =
disk.0.image = ubuntu-os-cloud/ubuntu-1404-trusty-v20160314
disk.0.scratch = false
disk.0.size = 0
disk.0.type =
machine_type = f1-micro
metadata.% = 1
```

```
metadata.ssh-keys = root:ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDM2oIISKysPmx3zm8n/uDSLdzncRC0x9INnHuF3rS603w4JRy
nh6DCD2I3NeWHU3Bw5t+x/S+YbsT4q5FrzjLTQoZ9xjj+g065Gvte5KbdARWf3YN76LDXd+3B3PQ/D8
kj5ARaaQYBIAVztC0vnAWHCXgfBmqV5tXBMgAvhM5SIcNBXrkymyK5rLJJk/QPihg8hNA9Y/jb3In9G
kz0DcE9/2s3IvjuiH2o/43kyw5iUxm08oyubxBaf0cbhvL8taA/BIH2h0ERCYVWB5cYTW10k6QHMAfw
sYuHnLUMAN+0yW6+x0E0ocqBA5yFbS66062iGX27wTUGjz5s33L3sgnx nugroho@nugroho-X455LF

metadata_fingerprint = c0gwtCVswtg=
name = tf-www-0
network.# = 0
network_interface.# = 1
network_interface.0.access_config.# = 1
network_interface.0.access_config.0.assigned_nat_ip = 146.148.113.231
network_interface.0.access_config.0.nat_ip =
network_interface.0.address = 10.132.0.4
network_interface.0.name = nic0
network_interface.0.network = default
network_interface.0.subnetwork =
network_interface.0.subnetwork_project =
self_link = https://www.googleapis.com/compute/v1/projects/kubernetes-
syaiful/zones/europe-west1-b/instances/tf-www-0
service_account.# = 1
service_account.0.email = 753580818943-compute@developer.gserviceaccount.com
service_account.0.scopes.# = 1
service_account.0.scopes.2862113455 =
https://www.googleapis.com/auth/compute.readonly
tags.# = 1
tags.365508689 = web
tags_fingerprint = 3d9fNIIa_10=
zone = europe-west1-b
google_compute_instance.www.1:
id = tf-www-1
can_ip_forward = false
create_timeout = 4
disk.# = 1
disk.0.auto_delete = true
disk.0.device_name =
disk.0.disk =
disk.0.disk_encryption_key_raw =
disk.0.disk_encryption_key_sha256 =
```

```
disk.0.image = ubuntu-os-cloud/ubuntu-1404-trusty-v20160314
disk.0.scratch = false
disk.0.size = 0
disk.0.type =
machine_type = f1-micro
metadata.% = 1
metadata.ssh-keys = root:ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDM2oIISKysPmx3zm8n/uDSLdzncRC0x9INnHuF3rS603w4JRy
nh6DCD2I3NeWHU3Bw5t+x/S+YbsT4q5FrzjLTQoZ9xjj+g065Gvte5KbdARwf3YN76LDXd+3B3PQ/D8
kj5ARaaQYBIAVztC0vnAWhCXgfBmqV5tXBMgAvhM5SIcNBXrkymyK5rLJJK/QPihg8hNA9Y/jb3In9G
kz0DcE9/2s3IvjuIH2o/43kyw5iUxm08oyubxBaf0cbhvL8taA/BIH2h0ERCYVWB5cYTw10k6QHMAfw
sYuHnLUMAN+0yW6+x0E0ocqBA5yFbS66062iGX27wTUGjz5s33L3sgnx nugroho@nugroho-X455LF

metadata_fingerprint = c0gwtCVswtg=
name = tf-www-1
network.# = 0
network_interface.# = 1
network_interface.0.access_config.# = 1
network_interface.0.access_config.0.assigned_nat_ip = 104.199.81.233
network_interface.0.access_config.0.nat_ip =
network_interface.0.address = 10.132.0.3
network_interface.0.name = nic0
network_interface.0.network = default
network_interface.0.subnetwork =
network_interface.0.subnetwork_project =
self_link = https://www.googleapis.com/compute/v1/projects/kubernetes-
syaiful/zones/europe-west1-b/instances/tf-www-1
service_account.# = 1
service_account.0.email = 753580818943-compute@developer.gserviceaccount.com
service_account.0.scopes.# = 1
service_account.0.scopes.2862113455 =
https://www.googleapis.com/auth/compute.readonly
tags.# = 1
tags.365508689 = web
tags_fingerprint = 3d9fNIIa_10=
zone = europe-west1-b
google_compute_instance.www.2:
id = tf-www-2
can_ip_forward = false
create_timeout = 4
```

```
disk.# = 1
disk.0.auto_delete = true
disk.0.device_name =
disk.0.disk =
disk.0.disk_encryption_key_raw =
disk.0.disk_encryption_key_sha256 =
disk.0.image = ubuntu-os-cloud/ubuntu-1404-trusty-v20160314
disk.0.scratch = false
disk.0.size = 0
disk.0.type =
machine_type = f1-micro
metadata.% = 1
metadata.ssh-keys = root:ssh-rsa
AAAAB3NzaClyc2EAAAADAQABAAQADM2oIISKysPmx3zm8n/uDSLdzncRC0x9INnHuF3rS603w4JRy
nh6DCD2I3NeWHU3Bw5t+x/S+YbsT4q5FrzjLTQoZ9xjj+g065Gvte5KbdARwf3YN76LDXd+3B3PQ/D8
kj5ARaaQYBIAVztC0vnAWhCXgfBmqV5tXBMgAvhM5SIcNBXrkymyK5rLJJk/QPihg8hNA9Y/jb3In9G
kz0DcE9/2s3IvjuiH2o/43kyw5iUxm08oyubxBaf0cbhvL8taA/BIH2h0ERCYVWB5cYTW10k6QHMAfw
sYuHnLUMAN+0yW6+x0E0ocqBA5yFbS66062iGX27wTUGjz5s33L3sgnx nugroho@nugroho-X455LF

metadata_fingerprint = c0gwtCVswtg=
name = tf-www-2
network.# = 0
network_interface.# = 1
network_interface.0.access_config.# = 1
network_interface.0.access_config.0.assigned_nat_ip = 104.155.87.185
network_interface.0.access_config.0.nat_ip =
network_interface.0.address = 10.132.0.5
network_interface.0.name = nic0
network_interface.0.network = default
network_interface.0.subnetwork =
network_interface.0.subnetwork_project =
self_link = https://www.googleapis.com/compute/v1/projects/kubernet-
syaiful/zones/europe-west1-b/instances/tf-www-2
service_account.# = 1
service_account.0.email = 753580818943-compute@developer.gserviceaccount.com
service_account.0.scopes.# = 1
service_account.0.scopes.2862113455 =
https://www.googleapis.com/auth/compute.readonly
tags.# = 1
tags.365508689 = web
```

```
tags_fingerprint = 3d9fNIIa_10=
zone = europe-west1-b
google_compute_target_pool.default:
  id = tf-www-target-pool
  backup_pool =
  description =
  failover_ratio = 0
  health_checks.# = 1
  health_checks.0 = tf-www-basic-check
  instances.# = 3
  instances.0 = europe-west1-b/tf-www-0
  instances.1 = europe-west1-b/tf-www-1
  instances.2 = europe-west1-b/tf-www-2
  name = tf-www-target-pool
  project = kubernetes-syaiful
  region = europe-west1
  self_link = https://www.googleapis.com/compute/v1/projects/kubernetes-syaiful/regions/europe-west1/targetPools/tf-www-target-pool
  session_affinity =
```

Outputs:

App IP = 104.199.29.53

NGINX Instance IPs = 146.148.113.231 104.199.81.233 104.155.87.185

Public IP (Load Balancer) = 104.155.113.82

Lampiran 2. Biodata Peneliti

A. IDENTITAS DIRI

1	Nama Lengkap (dengan gelar)	M. Agung Nugroho, S.Kom., M.Kom.
2	Jenis Kelamin	L
3	Jabatan Fungsional	-
4	NIP/NIK/Identitas lainnya	-
5	NIDN	0507078501
6	Tempat, Tanggal Lahir	Sleman, 7 Juli 1985
7	Alamat	Perum Griya Wirokerten Indah, Jalan Belimbing 95, Banguntapan, Bantul
8	E-mail	m.agung.n@akakom.ac.id
9	Nomor Telepon/HP	085643480531
10	Alamat Kantor	STMIK AKAKOM Yogyakarta Jl.Raya Janti 143, Karangjambe, Yogyakarta 55198
11	Nomor Telepon/Faks	0274486664/fax: 0274486438
12	Lulusan yang Telah Dihasilkan	-
12.Mata Kuliah yang Diampu		1. Konsep Cloud Computing
		2. Teknologi Cloud Terapan
		3. Jaringan Nirkabel
		4. Jaringan Komputer

B. RIWAYAT PENDIDIKAN

	S-1	S-2
Nama Perguruan Tinggi	STMIK AMIKOM Yogyakarta	STMIK AMIKOM Yogyakarta
Bidang Ilmu	Teknik Informatika	Teknologi Informasi
Tahun Masuk-Lulus	2003 – 2007	2009 – 2013
Judul Skripsi/Tesis/Disertasi	Case Study of WEP (Wired Equivalent Privacy) Vulnerability on Wireless Network	The Quality of Services Analysis of UGM's Hotspot at PPTiK UGM by Using End to End Monitoring Method Particular Accessed from PPTiK UGM
Nama Pembimbing/Promotor	Ir. Abbas Ali Pangera, M. T.	DR. Ema Utami, S.Si., M.Kom.

C. PENGALAMAN PENELITIAN DALAM 5 TAHUN TERAKHIR

(Bukan Skripsi, Tesis, maupun Disertasi)

No.	Tahun	Judul Penelitian	Pendanaan	
			Sumber *	Jml (Juta Rp)
1	2013	Pemetaan Kualitas Layanan Hotspot Dengan Metode Hattingh dan Servqual	DIPA Kopertis 023.04.2.18 9971/2013	2.5
2	2014	Mapping of Quality of Service Parameter with Monitoring End-to-End Method of ITU-T Y.1541 Standard in The Hotspot Area	Mandiri	-

D. PENGALAMAN PENGABDIAN KEPADA MASYARAKAT DALAM 5 TAHUN TERAKHIR

No.	Tahun	Judul Pengabdian Kepada Masyarakat	Pendanaan	
			Sumber*	Jml (Juta Rp)
1	2014	Penguatan Kelembagaan Sosial, Manajemen Organisasi dan E-Marketing untuk Mendorong Perkembangan Kelompok Desa Wisata di Kelurahan Tegaltirto	Hibah Iptek bagi Masyarakat (IbM) nomor : SP DIPA- 023.04.2.18997 1/2014	50

E. PUBLIKASI ARTIKEL ILMIAH DI JURNAL DALAM 5 TAHUN TERAKHIR

No.	Judul Artikel Ilmiah	Nama Jurnal	Volume/Nomor/Tahun
1	Mapping of Quality of Service Parameter with Monitoring End-to-End Method of ITU-T Y.1541 Standard in The Hotspot Area	Advanced Science Letters	Volume 20, Number 1, January 2014 , pp. 259-263. DOI: http://dx.doi.org/10.1166/asl.2014.5246

F. PEMAKALAH SEMINAR ILMIAH (*Oral Presentation*) DALAM 5 TAHUN TERAKHIR

No.	Nama Pertemuan Ilmiah	Judul Artikel Ilmiah	Tempat / Waktu
1	International Conference on Internet	Mapping of Quality of	Hotel Santika, Bogor /

	Services Technology and Information Engineering (ISTIE 2013)	Service Parameter with Monitoring End-to-End Method of ITU-T Y.1541 Standard in The Hotspot Area	10 – 12 Mei 2013
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Semua data yang saya isikan dan tercantum dalam biodata ini adalah benar dan dapat dipertanggungjawabkan secara hukum. Apabila di kemudian hari ternyata dijumpai ketidak-sesuaian dengan kenyataan, saya sanggup menerima sanksi.

Demikian biodata ini saya buat dengan sebenarnya untuk memenuhi salah satu persyaratan dalam pengajuan hibah penelitian.

Yogyakarta, 23 Februari 2017

M. Agung Nugroho, S.Kom, M.Kom.