

DAFTAR GAMBAR

Gambar 3. 1 Desain sistem NDN	24
Gambar 3. 2 Penempatan node router NDN	24
Gambar 3. 3 Desain sistem IP	25
Gambar 3. 4 Desain <i>Flowchart</i> Sistem NDN	25
Gambar 3. 5 <i>Gantt Chart</i> Jadwal Pengerjaan.....	28
Gambar 4. 1 Topologi <i>Smart grid</i>	29
Gambar 4. 2 Proses Alur Kerja Simulasi Subsistem.....	30
Gambar 4. 3 Sintaks Topologi <i>Reader</i> Sistem <i>Best-route</i> dan LRU	31
Gambar 4. 4 Sintaks <i>Install</i> NDN <i>Stack</i> Sistem <i>Best-route</i> dan LRU	31
Gambar 4. 5 <i>Choosing Forwarding Strategy</i> Sistem <i>Best-route</i> dan LRU	32
Gambar 4. 6 <i>Installing Global Routing</i> Sistem <i>Best-route</i> dan LRU	32
Gambar 4. 7 <i>Getting Node Consumer</i> Sistem <i>Best-route</i> dan LRU.....	32
Gambar 4. 8 <i>Getting Node Producer</i> Sistem <i>Best-route</i> dan LRU	33
Gambar 4. 9 <i>Interest Packet</i> Sistem <i>Best-route</i> dan LRU	33
Gambar 4. 10 <i>Set Prefix Consumer</i> Sistem <i>Best-route</i> dan LRU	33
Gambar 4. 11 <i>Calculate & Install</i> FIB Sistem <i>Best-route</i> dan LRU	33
Gambar 4. 12 Sintaks <i>Start/Stop Simulation</i> Sistem <i>Best-route</i> dan LRU	33
Gambar 4. 13 Keluaran Simulasi Sistem <i>Best-route</i> dan LRU.....	34
Gambar 4. 14 Sintaks Topologi <i>Reader</i> <i>Best-route</i> dan FIFO.....	35
Gambar 4. 15 Sintaks <i>Install</i> NDN <i>Stack</i> Sistem <i>Best-route</i> dan FIFO	36
Gambar 4. 16 <i>Choosing Forwarding Strategy</i> Sistem <i>Best-route</i> dan FIFO.....	36
Gambar 4. 17 <i>Installing Global Routing</i> Sistem <i>Best-route</i> dan FIFO.....	36
Gambar 4. 18 <i>Getting Node Consumer</i> Sistem <i>Best-route</i> dan FIFO	37
Gambar 4. 19 <i>Getting Node Producer</i> Sistem <i>Best-route</i> dan FIFO	37
Gambar 4. 20 <i>Interest Packet</i> Sistem <i>Best-route</i> dan FIFO.....	37
Gambar 4. 21 <i>Set Prefix Consumer</i> Sistem <i>Best-route</i> dan FIFO.....	37
Gambar 4. 22 <i>Calculate & Install</i> FIB <i>Best-route</i> dan FIFO.....	38
Gambar 4. 23 Sintaks <i>Start/Stop Simulation</i> Sistem <i>Best-route</i> dan FIFO.....	38
Gambar 4. 24 Keluaran Simulasi <i>Best-route</i> dan FIFO	38
Gambar 4. 25 Sintaks Topologi <i>Reader</i> Sistem <i>Client-control</i> dan LRU	40
Gambar 4. 26 Sintaks <i>Install</i> NDN <i>Stack</i> Sistem <i>Client-control</i> dan LRU	40

Gambar 4. 27	<i>Choosing Forwarding Strategy</i> Sistem <i>Client-control</i> dan LRU ...	40
Gambar 4. 28	<i>Installing Global Routing</i> Sistem <i>Client-control</i> dan LRU	41
Gambar 4. 29	<i>Getting Node Consumer</i> Sistem <i>Client-control</i> dan LRU.....	41
Gambar 4. 30	<i>Getting Node Producer</i> Sistem Sistem <i>Client-control</i> dan LRU	41
Gambar 4. 31	<i>Interest Packet</i> Sistem <i>Client-control</i> dan LRU	41
Gambar 4. 32	<i>Set Prefix Consumer</i> Sistem <i>Client-control</i> dan LRU	42
Gambar 4. 33	<i>Calculate & Install FIB</i> Sistem <i>Client-Control</i> dan LRU	42
Gambar 4. 34	Sintaks <i>Start/Stop Simulation</i> Sistem <i>Client-control</i> dan LRU	42
Gambar 4. 35	Keluaran Simulasi Sistem Sistem <i>Client-control</i> dan LRU	43
Gambar 4. 36	Sintaks Topologi <i>Reader Client-control</i> dan FIFO.....	44
Gambar 4. 37	Sintaks <i>Install NDN Stack Client-control</i> dan FIFO	44
Gambar 4. 38	<i>Choosing Forwarding Strategy Client-control</i> dan FIFO.....	45
Gambar 4. 39	<i>Installing Global Routing</i> Sistem <i>Client-control</i> dan FIFO	45
Gambar 4. 40	<i>Getting Node Consumer</i> Sistem <i>Client-control</i> dan FIFO	46
Gambar 4. 41	<i>Getting Node Producer</i> Sistem <i>Client-control</i> dan FIFO	46
Gambar 4. 42	<i>Interest Packet</i> Sistem <i>Client-control</i> dan FIFO.....	46
Gambar 4. 43	<i>Set Prefix Consumer</i> Sistem <i>Client-Control</i> dan FIFO.....	46
Gambar 4. 44	<i>Calculate & Install FIB Client-control</i> dan FIFO.....	47
Gambar 4. 45	Sintaks <i>Start/Stop Simulation</i> Sistem <i>Client-control</i> dan LRU	47
Gambar 4. 46	Keluaran Simulasi Sistem <i>Client-control</i> dan FIFO	47
Gambar 4. 47	<i>File Delay</i> Sistem <i>Best-route</i> dan LRU.....	53
Gambar 4. 48	Isi <i>File Delay</i> Sistem <i>Best-route</i> dan LRU.....	54
Gambar 4. 49	<i>File L2</i> Sistem <i>Best-route</i> dan LRU.....	54
Gambar 4. 50	Isi <i>File L2</i> Sistem <i>Best-route</i> dan LRU.....	55
Gambar 4. 51	<i>File L3</i> Sistem <i>Best-route</i> dan LRU.....	55
Gambar 4. 52	Isi <i>File L3</i> Sistem <i>Best-route</i> dan LRU.....	56
Gambar 4. 53	<i>File Perutean</i> Sistem <i>Best-route</i> dan LRU	56
Gambar 4. 54	Isi <i>File Perutean</i> Sistem <i>Best-route</i> dan LRU	56
Gambar 4. 55	<i>File Netanim</i> Sistem <i>Best-route</i> dan LRU	57
Gambar 4. 56	Isi <i>File Netanim</i> Sistem <i>Best-route</i> dan LRU	57
Gambar 4. 57	<i>File Delay</i> Sistem <i>Best-route</i> dan FIFO.....	57
Gambar 4. 58	Isi <i>File Delay</i> Sistem <i>Best-route</i> dan FIFO.....	58

Gambar 4. 59	<i>File L2 Sistem Best-route dan FIFO</i>	58
Gambar 4. 60	<i>Isi File L2 Sistem Best-route dan FIFO</i>	58
Gambar 4. 61	<i>File L3 Sistem Best-route dan FIFO</i>	59
Gambar 4. 62	<i>Isi File L3 Sistem Best-route dan FIFO</i>	59
Gambar 4. 63	<i>File Perutean Sistem Best-route dan FIFO</i>	59
Gambar 4. 64	<i>Isi File Perutean Sistem Best-route dan FIFO</i>	60
Gambar 4. 65	<i>File Netanim Sistem Best-route dan FIFO</i>	60
Gambar 4. 66	<i>Isi File Netanim Sistem Best-route dan FIFO</i>	61
Gambar 4. 67	<i>File Delay Sistem Client-control dan LRU</i>	61
Gambar 4. 68	<i>Isi File Delay Sistem Client-control dan LRU</i>	62
Gambar 4. 69	<i>File L2 Sistem Client-control dan LRU</i>	62
Gambar 4. 70	<i>Isi File L2 Sistem Client-control dan LRU</i>	62
Gambar 4. 71	<i>File L3 Sistem Client-control dan LRU</i>	63
Gambar 4. 72	<i>Isi File L3 Sistem Client-control dan LRU</i>	63
Gambar 4. 73	<i>File Perutean Sistem Client-control dan LRU</i>	63
Gambar 4. 74	<i>Isi File Perutean Sistem Client-control dan LRU</i>	64
Gambar 4. 75	<i>File Netanim Sistem Client-control dan LRU</i>	64
Gambar 4. 76	<i>Isi File Netanim Sistem Client-control dan LRU</i>	65
Gambar 4. 77	<i>File Delay Sistem Client-control dan FIFO</i>	65
Gambar 4. 78	<i>Isi File Delay Sistem Client-control dan FIFO</i>	65
Gambar 4. 79	<i>File L2 Sistem Client-control dan FIFO</i>	66
Gambar 4. 80	<i>Isi File L2 Sistem Client-control dan FIFO</i>	66
Gambar 4. 81	<i>File L3 Sistem Client-control dan FIFO</i>	66
Gambar 4. 82	<i>Isi File L3 Sistem Client-control dan FIFO</i>	67
Gambar 4. 83	<i>File Perutean Sistem Client-control dan FIFO</i>	67
Gambar 4. 84	<i>Isi File Perutean Sistem Client-control dan FIFO</i>	67
Gambar 4. 85	<i>File Netanim Sistem Client-control dan FIFO</i>	68
Gambar 4. 86	<i>Isi File Netanim Sistem Client-control dan FIFO</i>	68
Gambar 5. 1	<i>Grafik Perubahan Ukuran CS Terhadap Delay</i>	70
Gambar 5. 2	<i>Grafik Perubahan Frekuensi Interest Terhadap Delay</i>	71
Gambar 5. 3	<i>Grafik Perubahan Ukuran CS Terhadap Hit Ratio</i>	72
Gambar 5. 4	<i>Grafik Perubahan Frekuensi Interest Terhadap Hit Ratio</i>	72

Gambar 5. 5 Grafik Perubahan Ukuran CS Terhadap Paket <i>Drop</i>	73
Gambar 5. 6 Grafik Perubahan Frekuensi <i>Interest</i> Terhadap Paket <i>Drop</i>	74
Gambar 5. 7 Grafik Perubahan Ukuran CS Terhadap <i>Satisfied Interest Ratio</i>	75
Gambar 5. 8 Grafik Perubahan Frekuensi <i>Interest</i> Terhadap <i>Satisfied Interest Ratio</i>	75