

ABSTRAK

Badan Keuangan Daerah sebagai unsur penunjang Pemerintah Daerah yang dipimpin oleh seorang Kepala Badan dan bertanggung jawab kepada Bupati Bandung melalui Sekretaris Daerah Kabupaten Bandung yang didalamnya terdapat fungsi Pengelolaan Barang Milik Daerah dan Tahun 2016 merupakan tahun pertama dari pelaksanaan Rencana Strategis BKD Kabupaten Bandung Tahun 2016 – 2021 yang berpedoman pada Rencana Pembangunan Jangka Menengah Daerah (RPJMD) Kabupaten Bandung Tahun 2016 - 2021.

Dalam tugasnya mengelola keuangan tentu di dalamnya terdapat penggunaan teknologi informasi guna menunjang pertanggungjawaban terhadap Bupati. Di samping manfaatnya, penerapan teknologi informasi juga mengandung kekurangan dalam penerapan tersebut yang dapat mengganggu proses bisnis itu sendiri sehingga menyebabkan terganggunya keamanan sehingga tidak terealisasinya target yang di canangkan oleh Pemerintah Kabupaten Bandung.

Untuk mencegah hal-hal tersebut terjadi maka perlu di ketahui sejauh mana tata kelola sistem keamanan teknologi informasi dengan cara melakukan evaluasi, karena dengan adanya evaluasi dapat dihasilkan rekomendasi berupa tindakan-tindakan apa yang harus dilakukan agar hal-hal tersebut tidak terjadi. Sehingga penelitian dilakukan untuk mengetahui *Capability level* pada tata kelola sistem keamanan teknologi informasi di BKD dengan menggunakan *framework* COBIT 5 domain proses DSS05, data penelitian didapatkan dari wawancara, dan observasi. BKD telah menerapkan penerapan *manage security*, hanya saja masih berada pada level 1 sehingga ada beberapa hal yang harus ditingkatkan.

Kata kunci: Keamanan teknologi informasi, sistem keamanan, *framework* COBIT 5, *Capability level*.

ABSTRACT

Badan Keuangan Daerah as elements supporting the local government headed by a head of the Agency and is responsible to the Regent of Bandung, Bandung Regency Secretary through which there is a function of the management of Goods belonging to the area and the year 2016 the first year of implementation of the Strategic Plan of BKD, Bandung Regency Years 2016 – 2021 which are based on medium-term Regional development plan Bandung Regency Years 2016-2021.

In it's task of managing their finances certainly inside are the use of information technology to support liability against Regent. In addition to its benefits, the application of information technology also contains deficiencies in the application of which can interfere with the business process it self causing disruption of security so that not realized a planned target by Bandung Regency Government.

To prevent such things happening in it is necessary to know the extent to which the governance of information technology security systems by way of doing evaluation, because the existence of evaluation recommendations can be generated in the form of what actions should be done so that such things don't happen. So the research is carrie out to know the Capability level on corporate governance of information technology security systems at BKD using framework COBIT 5 domain DSS05 processes, research data obtained from interviews and observations. BKD have implemented the application manage security, just that are still at level 1 so there are some things that should be improved.

Keywords: *information technology, security, security system, framework COBIT 5, capability level*

DAFTAR ISI

LEMBAR PENGESAHAN	i
PERNYATAAN ORISINALITAS LAPORAN PENELITIAN	ii
PERNYATAAN PUBLIKASI LAPORAN PENELITIAN	iii
PRAKATA	iv
ABSTRAK	vi
DAFTAR ISI	viii
DAFTAR GAMBAR	xii
DAFTAR TABEL	xiii
DAFTAR SINGKATAN	xiv
DAFTAR ISTILAH	xv
BAB I PENDAHULUAN	1
1.1 Latar Belakang	1
1.2 Rumusan Masalah	3
1.3 Tujuan Pembahasan	3
1.4 Ruang Lingkup	3
1.5 Sumber Data	4
1.6 Sistematika Penyajian	5
BAB 2 KAJIAN TEORI	6
2.1 Pengertian Kontrol	6
2.2 Pengertian Audit	8
2.3 Macam-macam Framework	16
BAB 3 Analisis	35
3.1 Visi dan Misi Instansi	35
3.2 Struktur Organisasi	36

3.2.1 Deskripsi Pekerjaan.....	38
3.3 Proses Bisnis	49
3.3.1 Proses Bisnis Layanan Penitipan Server Perangkat Daerah	49
3.3.2 Proses Bisnis Layanan Hak Akses Remote Jaringan	52
3.4 Assurance Program	54
3.4.1 Phase A	54
3.4.1.1 Determine The Stakeholder of The Assurance	54
3.4.1.2 Determine The Assurance Objectives Based On Assesment Of The External And Internal Context	54
3.4.1.2.1 Understand The Enterprise Strategy And Priorities	55
3.4.1.2.2 Understand The Internal Context Of The Enterprise	55
3.4.1.2.3 Understand The External Context Of The Enterprise	56
3.4.1.2.4 Identified Strategic Priorities Into Concrete Objectives For The Assurance Enagement	56
3.4.1.2.5 Define The Organizational Boundaries Of The Assurance Initiative	57
3.4.1.3 Determine The Enablers In Scope And The Instance Of The Enablers In Scope	57
3.4.1.3.1 Define The Process In Scope Review	57
3.4.1.3.2 Define The Related Enablers	58
3.4.2 Phase B – Memahami Enablers, Set Kriteria Penilaian, Dan Assesment	67
3.4.2.1 Assess Enterprise Goals and IT-Related Goals.....	67
3.4.2.1.1 Assess Enterprise Goals	67
3.4.2.1.2 Asses IT Related Goals	69
3.4.2.2 Obtain Understanding Of The Process In Scope And Set Suitable Assesment Criteria	71
3.4.2.2.1 Understand The Process Purpose	71

3.4.2.2.2 Assess Process Goals.....	71
3.4.2.2.3 RACI Chart.....	75
3.4.2.2.4 Work Product.....	77
3.4.2.2.5 Capability Level	83
3.4.2.2.5.1 DSS05-Manage Security Service.....	84
3.4.2.3 Understand and Asses the Principles, Policies and Framework	100
3.4.2.3.1 Understand the Principles, Polices, and Framework.....	100
3.4.2.3.2 Understand the Stakeholders Principles, Policies, and Frameworks.....	106
3.4.2.3.3 Asses The Goals For The Principles And Policies.....	106
3.4.2.4 Understand And Asses The Organisational Structure.....	109
3.4.2.4.1 Understand The Organisational Structure Context.....	109
3.4.2.4.2 Understand All Stakeholders Of The Organisational Structure/Function.....	111
3.4.2.4.3 Understand The Goals Of The Organisational Structure	119
3.4.2.4.4 Good Practice For The Organisational Structure Against Which It Will Be Assesed.....	121
3.4.2.5 Obtain Understanding Of The Culture, Ethnics and Behaviour In Scope	124
3.4.2.5.1 Understand The Culture, Ethnics, and Behaviour Context	124
3.4.2.5.2 Understand The Major Stakeholders of The Culture, Ethnics, and Behaviour	125
3.4.2.5.3 Understand The Goals For The Culture, Ethnics, and Behaviour...	125
3.4.2.6 Understand And Assess Information Item	126
3.4.2.6.1 Understand The Information Item Context	126
3.4.2.6.2 Understand The Major Stakeholders Of The Information Item	127

3.4.2.6.3	Understand The Major Quality Criteria For The Information Item	129
3.4.2.6.4	<i>Lifecycle Information Item</i> Manajemen Informasi	129
3.4.2.6.5	<i>Good Practice Information Item</i> Manajemen Layanan Keamanan.....	131
3.4.2.7	Obtain Understanding of the Service, Infrastructure, and Application in Scope	131
3.4.2.7.1	Understanding of the Service, Infrastructure, and Application.....	131
3.4.2.7.2	Understand the major goals for the Services	132
3.4.2.7.3	Understand good practice related to the Services, Infrastructure and Application	133
3.4.2.8	Obtain Understanding of The People, Skills, and Competencies In Scope	134
3.4.2.8.1	Understand The People, Skills, and Competencies Context	134
3.4.2.8.2	Understand The Major Stakeholders For People, Skills, and Competencies	134
3.4.2.8.3	Understand The Major Goals For People, Skills, and Competencies	134
3.4.2.8.4	Understand Lifecycle Stage Of The People, Skills, And Competencies	136
3.4.2.8.5	Understand Good Practice Related to The People, Skills, and Competencies and Expected Value	138
3.4.3	Analisis GAP Manage Security DSS05	139
3.4.3.1	Level PA 1.1.	139
BAB 4 SIMPULAN DAN SARAN		141
4.1	Simpulan	141
4.2	Saran.....	142
DAFTAR PUSTAKA		143

DAFTAR GAMBAR

Gambar 2.1 Flowchart langkah utama dalam mengaudit.....	15
Gambar 2.2 Pengembangan COBIT sampai dengan COBIT 5.....	18
Gambar 2.3 Prinsip COBIT 5.....	19
Gambar 2.4 Proses Goal Cascade	20
Gambar 2.5 Proses cover end to end.....	21
Gambar 2.6 Enablers COBIT 5.....	22
Gambar 2.7 Pembagian fungsi Governance dan Managemet	23
Gambar 2.8 Contoh RACI Chart.....	24
Gambar 2.9 Capability Level	25
Gambar 2.10 Maturity level dan atributnya	27
Gambar 2.11 Diagram Raci	29
Gambar 3.1 Struktur Organisasi Badan Keuangan Daerah.....	37
Gambar 3.2 Proses bisnis layanan penitipan server perangkat daerah.....	51
Gambar 3.3 Proses bisnis layanan Hak Akses Remote Jaringan	53

DAFTAR TABEL

Tabel 3.1 Enterprise Goals EG15 Compliance With Internal Policies	68
Tabel 3. 2 ITG 10 Security of Information and Processing Infrastructure	69
Tabel 3. 3 Penilaian Terhadap Tujuan Proses	72
Tabel 3. 4 RACI Chart BKD	76
Tabel 3. 5 Work Product yang teridentifikasi	78
Tabel 3. 6 Rincian DSS05 Manage Security Service	84
Tabel 3. 7 Level Manage Security Service	94
Tabel 3. 8 <i>Principles, Policies, And Framework Goals</i>	106
Tabel 3. 9 <i>Good Practice of the Principles, Policies, And Framework Goals</i>	108
Tabel 3. 10 <i>Good Practice Organisational Structure</i>	121
Tabel 3. 11 <i>Lifecycle Struktur Organisasi</i>	123
Tabel 3. 12 Hasil penilaian culture, ethnics, and behaviour	125
Tabel 3. 13 <i>Information Item Work Product</i>	127
Tabel 3. 14 <i>Information Item Quality Criteria</i>	129
Tabel 3. 15 <i>Lifecycle Information Item</i>	130
Tabel 3. 16 <i>Good Practice Information Item</i>	131
Tabel 3. 17 <i>Major Goals for the Services</i>	132
Tabel 3. 18 <i>Good Practice Related to the Services, Infrastructure and Application</i>	133
Tabel 3. 19 <i>Major goals for people, skills, and competencies</i>	134
Tabel 3. 20 <i>Lifecycle Stage of The People, Skills, and, Competencies</i>	136
Tabel 3. 21 <i>Good practice related to The People, Skills, and Competencies</i>	138

DAFTAR SINGKATAN

RACI	R (<i>Responsible</i>), A (<i>Accountable</i>), C (<i>Consulted</i>), dan I (<i>Informed</i>)
RAM	<i>Responsibility Assigment Matrix</i>
ISACA	<i>Information System Audit and Control Assosiation</i>
SI	<i>Sistem Informasi</i>
IT	<i>Information Technology</i>
SOP	<i>Standar Operasional Perusahaan</i>
DSS	<i>Decision Support System</i>

DAFTAR ISTILAH

Audit	Pemeriksaan dengan seksama pada sebuah organisasi dengan pencarian bukti nyata berupa dokumen fisik atau elektronik untuk pembuktiannya.
Kontrol	Pengawasan, pemeriksaan dan pengendalian

