

# MASTERING ZABBIX SECOND EDITION

MASTERING ZABBIX - SECOND EDITION ZABBIX 6 IT INFRASTRUCTURE MONITORING COOKBOOK MASTERING pfSense, AWS ADMINISTRATION - THE DEFINITIVE GUIDE ZABBIX 6 IT INFRASTRUCTURE MONITORING COOKBOOK MASTERING ANSIBLE HANDS-ON INFRASTRUCTURE MONITORING WITH PROMETHEUS ZABBIX 1.8 NETWORK MONITORING APPLIED COMPUTER SCIENCE FOR GGOS OBSERVATORIES MASTERING OPENSTACK ZABBIX: ENTERPRISE NETWORK MONITORING MADE EASY CLOUD COMPUTING SECURITY ZABBIX PERFORMANCE TUNING COMP TIA NETWORK+ CERTIFICATION ALL-IN-ONE EXAM GUIDE, EIGHTH EDITION (EXAM N10-008) LEARN ZABBIX MONITORING MIT ZABBIX INFORMATION SECURITY MANAGEMENT ANDREA DALLE VACCHE NATHAN LIEFTING DAVID ZIENTARA YOHAN WADIA NATHAN LIEFTING JESSE KEATING JOEL BASTOS RIHARDS OLUPS ALEXANDER N.J. NEIDHARDT OMAR KHEDHER RIHARDS OLUPS JOHN R. VACCA LUCIANO ALVES MIKE MEYERS DIEGO RODRIGUES THORSTEN KRAMM MICHAEL WORKMAN

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LEARN HOW TO MONITOR YOUR LARGE IT ENVIRONMENTS USING ZABBIX WITH THIS ONE STOP COMPREHENSIVE GUIDE TO THE ZABBIX WORLDABOUT THIS BOOK CREATE A TAILOR MADE MONITORING SOLUTION BASED ON YOUR SPECIFIC NEEDS LEARN ADVANCED TECHNIQUES OF ZABBIX TO MONITOR NETWORKS PERFORMANCES AND OTHER CRITICAL FEATURES IN LARGE ENVIRONMENTS INTEGRATE CUSTOMIZE AND EXTEND YOUR MONITORING SOLUTIONS WITH EXTERNAL COMPONENTS AND SOFTWAREWHO THIS BOOK IS FORTHIS BOOK IS INTENDED FOR SYSTEM ADMINISTRATORS AND IT ARCHITECTS WHO NEED TO BETTER INTEGRATE THEIR ZABBIX INSTALLATION WITH THEIR SURROUNDING ENVIRONMENT A BASIC WORKING KNOWLEDGE OF ZABBIX AND LINUX IS ASSUMED SO THAT THE BOOK CAN FOCUS ON HOW TO USE EVERY COMPONENT TO ITS FULL ADVANTAGE IT WILL ALSO BE HELPFUL TO BE FAMILIAR WITH PROGRAMMING CONCEPTS AND LANGUAGES BUT IF NOT ALL THE CONTENT IN THE BOOK IS THOROUGH AND WELL DOCUMENTED WHAT YOU WILL LEARN EFFICIENTLY COLLECT DATA FROM A LARGE VARIETY OF MONITORING OBJECTS ORGANIZE YOUR DATA IN GRAPHS CHARTS MAPS AND SLIDE SHOWS BUILD INTELLIGENT TRIGGERS AND ALARMS TO MONITOR YOUR NETWORK PROACTIVELY WRITE YOUR OWN CUSTOM PROBES AND MONITORING SCRIPTS TO EXTEND ZABBIX CONFIGURE ZABBIX AND ITS DATABASE TO BE HIGH AVAILABLE AND FAULT TOLERANT AUTOMATE REPETITIVE PROCEDURES USING ZABBIX S API INTEGRATE ZABBIX WITH EXTERNAL SYSTEMS UNDERSTAND THE PROTOCOL AND HOW TO INTERACT WITH IT BY WRITING YOUR OWN CUSTOM AGENTIN DETAILNOWADAYS MONITORING SYSTEMS PLAY A CRUCIAL ROLE IN ANY IT ENVIRONMENT THEY ARE EXTENSIVELY USED TO NOT ONLY MEASURE YOUR SYSTEM S PERFORMANCE BUT ALSO TO FORECAST CAPACITY ISSUES THIS IS WHERE ZABBIX ONE OF THE MOST POPULAR MONITORING SOLUTIONS FOR NETWORKS AND APPLICATIONS COMES INTO THE PICTURE WITH AN EFFICIENT MONITORING SYSTEM IN PLACE YOU LL BE ABLE TO FORESEE WHEN YOUR INFRASTRUCTURE RUNS UNDER CAPACITY AND REACT ACCORDINGLY DUE TO THE CRITICAL ROLE A MONITORING SYSTEM PLAYS IT IS FUNDAMENTAL TO IMPLEMENT IT IN THE BEST WAY FROM ITS INITIAL SETUP THIS AVOIDS MISLEADING CONFUSING OR EVEN WORSE FALSE ALARMS WHICH CAN DISRUPT AN EFFICIENT AND HEALTHY IT DEPARTMENT THIS NEW EDITION WILL PROVIDE YOU WITH ALL THE KNOWLEDGE YOU NEED TO MAKE STRATEGIC AND PRACTICAL DECISIONS ABOUT THE ZABBIX MONITORING SYSTEM THE SETUP YOU LL DO WITH THIS BOOK WILL FIT YOUR ENVIRONMENT AND MONITORING NEEDS LIKE A

GLOVE YOU WILL BE GUIDED THROUGH THE INITIAL STEPS OF CHOOSING THE CORRECT SIZE AND CONFIGURATION FOR YOUR SYSTEM TO WHAT TO MONITOR AND HOW TO IMPLEMENT YOUR OWN CUSTOM MONITORING COMPONENT EXPORTING AND INTEGRATING YOUR DATA WITH OTHER SYSTEMS IS ALSO COVERED BY THE END OF THIS BOOK YOU WILL HAVE A TAILOR MADE AND WELL CONFIGURED MONITORING SYSTEM AND WILL UNDERSTAND WITH ABSOLUTE CLARITY HOW CRUCIAL IT IS TO YOUR IT ENVIRONMENT STYLE AND APPROACHTHIS BOOK IS AN EASY TO FOLLOW STEP BY STEP GUIDE TO MONITORING NETWORK AND PERFORMANCE IN LARGE ENVIRONMENTS WITH ZABBIX IT IS DESIGNED FOR REAL WORLD ZABBIX ADMINISTRATORS AND IS COMPRISED OF A PERFECT MIX OF THEORETICAL EXPLANATIONS AND PRACTICAL APPLICATIONS MAKING IT YOUR PERFECT COMPANION

DISCOVER PRACTICAL RECIPES TO HELP YOU EFFICIENTLY MONITOR ENTERPRISE IT INFRASTRUCTURE FOR MICROSOFT WINDOWS LINUX NETWORKING AND MORE THIS UPDATED SECOND EDITION OF THE ZABBIX 6 IT INFRASTRUCTURE MONITORING COOKBOOK BRINGS YOU NEW RECIPES UPDATED WITH ZABBIX 6 FUNCTIONALITY YOU LL LEARN HOW TO SET UP ZABBIX WITH BUILT IN HIGH AVAILABILITY USE THE IMPROVED BUSINESS SERVICE MONITORING SET UP AUTOMATIC REPORTING AND CREATE ADVANCED TRIGGERS ZABBIX OFFERS USEFUL INSIGHTS INTO YOUR INFRASTRUCTURE PERFORMANCE AND ISSUES AND ENABLES YOU TO ENHANCE YOUR MONITORING SETUP WITH ITS POWERFUL FEATURES THIS BOOK COVERS HANDS ON EASY TO FOLLOW RECIPES FOR USING ZABBIX 6 TO MONITOR EFFECTIVELY THE PERFORMANCE OF DEVICES AND APPLICATIONS OVER THE NETWORK YOU LL START BY WORKING YOUR WAY THROUGH THE INSTALLATION AND MOST PROMINENT FEATURES OF ZABBIX AND MAKE THE RIGHT DESIGN CHOICES FOR BUILDING A SCALABLE AND EASILY MANAGEABLE ENVIRONMENT THIS ZABBIX BOOK CONTAINS RECIPES FOR BUILDING ITEMS AND TRIGGERS FOR DIFFERENT TYPES OF MONITORING BUILDING TEMPLATES AND USING ZABBIX PROXIES NEXT YOU LL USE THE ZABBIX API FOR CUSTOMIZATION AND MANAGE YOUR ZABBIX SERVER AND DATABASE EFFICIENTLY FINALLY YOU LL FIND QUICK SOLUTIONS TO THE COMMON AND NOT SO COMMON PROBLEMS THAT YOU MAY ENCOUNTER IN YOUR ZABBIX MONITORING WORK BY THE END OF THIS BOOK YOU LL BE ABLE TO USE ZABBIX FOR ALL YOUR MONITORING NEEDS AND BUILD A SOLID ZABBIX SETUP BY LEVERAGING ITS KEY FUNCTIONALITIES

INSTALL AND CONFIGURE A PFSENSE ROUTER FIREWALL AND BECOME A PFSENSE EXPERT IN THE PROCESS KEY FEATURES YOU CAN ALWAYS DO MORE TO SECURE YOUR SOFTWARE SO EXTEND AND CUSTOMIZE YOUR PFSENSE FIREWALL BUILD A HIGH AVAILABILITY SECURITY SYSTEM THAT S FAULT TOLERANT AND CAPABLE OF BLOCKING POTENTIAL THREATS PUT THE PRINCIPLES OF BETTER SECURITY INTO PRACTICE BY IMPLEMENTING EXAMPLES PROVIDED IN THE TEXT BOOK DESCRIPTION PFSENSE HAS THE SAME RELIABILITY AND STABILITY AS EVEN THE MOST POPULAR COMMERCIAL FIREWALL OFFERINGS ON THE MARKET BUT LIKE THE VERY BEST OPEN SOURCE SOFTWARE IT DOESN T LIMIT YOU YOU RE IN CONTROL YOU CAN EXPLOIT AND CUSTOMIZE PFSENSE AROUND YOUR SECURITY NEEDS MASTERING PFSENSE SECOND EDITION COVERS FEATURES THAT HAVE LONG BEEN PART OF PFSENSE SUCH AS CAPTIVE PORTAL VLANS TRAFFIC SHAPING VPNS LOAD BALANCING COMMON ADDRESS REDUNDANCY PROTOCOL CARP MULTI WAN AND ROUTING IT ALSO COVERS FEATURES THAT HAVE BEEN ADDED WITH THE RELEASE OF 2.4 SUCH AS SUPPORT FOR ZFS PARTITIONS AND OPENVPN 2.4 THIS BOOK TAKES INTO ACCOUNT THE FACT THAT IN ORDER TO SUPPORT INCREASED CRYPTOGRAPHIC LOADS PFSENSE VERSION 2.5 WILL REQUIRE A CPU THAT SUPPORTS AES NI THE SECOND EDITION OF THIS BOOK PLACES MORE OF AN EMPHASIS ON THE PRACTICAL SIDE OF UTILIZING PFSENSE THAN THE PREVIOUS EDITION AND AS A RESULT MORE EXAMPLES ARE PROVIDED WHICH SHOW IN STEP BY STEP FASHION HOW TO IMPLEMENT MANY FEATURES WHAT YOU WILL LEARN CONFIGURE PFSENSE SERVICES SUCH AS DHCP DYNAMIC DNS CAPTIVE PORTAL DNS NTP AND SNMP SET UP A MANAGED SWITCH TO WORK WITH VLANS USE PFSENSE TO ALLOW BLOCK AND DENY TRAFFIC AND TO IMPLEMENT NETWORK ADDRESS TRANSLATION NAT MAKE USE OF THE TRAFFIC SHAPER TO LOWER AND RAISE THE PRIORITY OF CERTAIN TYPES OF TRAFFIC SET UP AND CONNECT TO A VPN TUNNEL WITH PFSENSE INCORPORATE REDUNDANCY AND HIGH AVAILABILITY BY UTILIZING LOAD BALANCING AND THE COMMON ADDRESS REDUNDANCY PROTOCOL CARP EXPLORE DIAGNOSTIC TOOLS IN PFSENSE TO SOLVE NETWORK PROBLEMS WHO THIS BOOK IS FOR THIS BOOK IS FOR THOSE WITH AT LEAST AN INTERMEDIATE UNDERSTANDING OF NETWORKING PRIOR KNOWLEDGE OF PFSENSE WOULD BE HELPFUL BUT IS NOT REQUIRED THOSE WHO HAVE THE RESOURCES TO SET UP A PFSENSE FIREWALL EITHER IN A REAL OR VIRTUAL ENVIRONMENT WILL ESPECIALLY BENEFIT AS THEY WILL BE ABLE TO FOLLOW ALONG WITH THE EXAMPLES IN THE BOOK

LEVERAGE THIS STEP BY STEP GUIDE TO BUILD A HIGHLY SECURE FAULT TOLERANT AND SCALABLE CLOUD ENVIRONMENT KEY FEATURES LEARN HOW TO LEVERAGE VARIOUS AMAZON SERVICES AWS COMPONENTS AND SERVICES TO BUILD A SECURE RELIABLE AND ROBUST ENVIRONMENT TO HOST YOUR APPLICATIONS ON DELVE INTO CORE AWS SERVICE OFFERINGS WITH HANDS ON TUTORIALS REAL WORLD USE CASE SCENARIOS AND BEST PRACTICES A SELF PACED SYSTEMATIC AND STEP BY STEP GUIDE TO LEARNING AND IMPLEMENTING AWS IN YOUR OWN ENVIRONMENT BOOK DESCRIPTION MANY BUSINESSES ARE MOVING FROM TRADITIONAL DATA CENTERS TO AWS BECAUSE OF ITS RELIABILITY VAST SERVICE OFFERINGS LOWER COSTS AND HIGH RATE OF INNOVATION AWS CAN BE USED TO ACCOMPLISH A VARIETY OF BOTH SIMPLE AND TEDIOUS TASKS WHETHER YOU ARE A SEASONED SYSTEM ADMIN OR A ROOKIE THIS BOOK WILL HELP YOU TO LEARN ALL THE SKILLS YOU NEED TO WORK WITH THE AWS CLOUD THIS BOOK GUIDES YOU THROUGH SOME OF THE MOST POPULAR AWS SERVICES SUCH AS EC<sup>2</sup> ELASTIC BEANSTALK EFS CLOUDTRAIL REDSHIFT EMR DATA PIPELINE AND IOT USING A SIMPLE REAL WORLD APPLICATION HOSTING EXAMPLE THIS BOOK WILL ALSO ENHANCE YOUR APPLICATION DELIVERY SKILLS WITH THE LATEST AWS SERVICES SUCH AS CODECOMMIT CODEDEPLOY AND CODEPIPELINE TO PROVIDE CONTINUOUS DELIVERY AND DEPLOYMENT WHILE ALSO SECURING AND MONITORING YOUR ENVIRONMENT S WORKFLOW EACH CHAPTER IS DESIGNED TO PROVIDE YOU WITH MAXIMAL INFORMATION ABOUT EACH AWS SERVICE COUPLED WITH EASY TO FOLLOW HANDS ON STEPS BEST PRACTICES TIPS AND RECOMMENDATIONS BY THE END OF THE BOOK YOU WILL BE ABLE TO CREATE A HIGHLY SECURE FAULT TOLERANT AND SCALABLE ENVIRONMENT FOR YOUR APPLICATIONS TO RUN ON WHAT YOU WILL LEARN TAKE AN IN DEPTH LOOK AT WHAT S NEW WITH AWS ALONG WITH HOW TO EFFECTIVELY MANAGE AND AUTOMATE YOUR EC<sup>2</sup> INFRASTRUCTURE WITH AWS SYSTEMS MANAGER DEPLOY AND SCALE YOUR APPLICATIONS WITH EASE USING AWS ELASTIC BEANSTALK AND AMAZON ELASTIC FILE SYSTEM SECURE AND GOVERN YOUR ENVIRONMENTS USING AWS CLOUDTRAIL AWS CONFIG AND AWS SHIELD LEARN THE DEVOPS WAY USING A COMBINATION OF AWS CODECOMMIT AWS CODEDEPLOY AND AWS CODEPIPELINE RUN BIG DATA ANALYTICS AND WORKLOADS USING AMAZON EMR AND AMAZON REDSHIFT LEARN TO BACK UP AND SAFEGUARD YOUR DATA USING AWS DATA PIPELINE GET STARTED WITH THE INTERNET OF THINGS USING AWS IOT AND AWS GREENGRASS WHO THIS BOOK IS FOR THIS BOOK IS FOR

THOSE WHO WANT TO LEARN AND LEVERAGE THE RICH PLETHORA OF SERVICES PROVIDED BY AWS ALTHOUGH NO PRIOR EXPERIENCE WITH AWS IS REQUIRED IT IS RECOMMENDED THAT YOU HAVE SOME HANDS ON EXPERIENCE OF LINUX SERVICES AND BASIC NETWORKING

DISCOVER PRACTICAL RECIPES TO HELP YOU EFFICIENTLY MONITOR ENTERPRISE IT INFRASTRUCTURE FOR MICROSOFT WINDOWS LINUX NETWORKING AND MORE KEY FEATURES FIND OUT HOW YOU CAN LEVERAGE SOME OF THE MOST EXCITING FEATURES OF ZABBIX 6 PERFORM PROFESSIONAL IT INFRASTRUCTURE AND APPLICATION MONITORING ON MULTIPLE PLATFORMS DISCOVER EASY TO FOLLOW PRACTICAL SOLUTIONS TO PROBLEMS IN NETWORK MONITORING WITH ZABBIX BOOK DESCRIPTIONTHIS UPDATED SECOND EDITION OF THE ZABBIX 6 IT INFRASTRUCTURE MONITORING COOKBOOK BRINGS YOU NEW RECIPES UPDATED WITH ZABBIX 6 FUNCTIONALITY YOU LL LEARN HOW TO SET UP ZABBIX WITH BUILT IN HIGH AVAILABILITY USE THE IMPROVED BUSINESS SERVICE MONITORING SET UP AUTOMATIC REPORTING AND CREATE ADVANCED TRIGGERS ZABBIX OFFERS USEFUL INSIGHTS INTO YOUR INFRASTRUCTURE PERFORMANCE AND ISSUES AND ENABLES YOU TO ENHANCE YOUR MONITORING SETUP WITH ITS POWERFUL FEATURES THIS BOOK COVERS HANDS ON EASY TO FOLLOW RECIPES FOR USING ZABBIX 6 TO MONITOR EFFECTIVELY THE PERFORMANCE OF DEVICES AND APPLICATIONS OVER THE NETWORK YOU LL START BY WORKING YOUR WAY THROUGH THE INSTALLATION AND MOST PROMINENT FEATURES OF ZABBIX AND MAKE THE RIGHT DESIGN CHOICES FOR BUILDING A SCALABLE AND EASILY MANAGEABLE ENVIRONMENT THIS ZABBIX BOOK CONTAINS RECIPES FOR BUILDING ITEMS AND TRIGGERS FOR DIFFERENT TYPES OF MONITORING BUILDING TEMPLATES AND USING ZABBIX PROXIES NEXT YOU LL USE THE ZABBIX API FOR CUSTOMIZATION AND MANAGE YOUR ZABBIX SERVER AND DATABASE EFFICIENTLY FINALLY YOU LL FIND QUICK SOLUTIONS TO THE COMMON AND NOT SO COMMON PROBLEMS THAT YOU MAY ENCOUNTER IN YOUR ZABBIX MONITORING WORK BY THE END OF THIS BOOK YOU LL BE ABLE TO USE ZABBIX FOR ALL YOUR MONITORING NEEDS AND BUILD A SOLID ZABBIX SETUP BY LEVERAGING ITS KEY FUNCTIONALITIES WHAT YOU WILL LEARN IMPLEMENT YOUR HIGH AVAILABILITY ZABBIX SETUP BUILD TEMPLATES AND EXPLORE THE DIFFERENT TYPES OF MONITORING AVAILABLE IN ZABBIX 6 USE ZABBIX PROXIES TO SCALE YOUR ENVIRONMENT EFFECTIVELY WORK WITH CUSTOM INTEGRATIONS AND THE ZABBIX API SET UP ADVANCED TRIGGERS AND EFFECTIVE ALERTING MAINTAIN YOUR ZABBIX SETUP FOR SCALING BACKUPS AND

UPGRADES DISCOVER HOW TO PERFORM ADVANCED ZABBIX DATABASE MANAGEMENT MONITOR CLOUD BASED PRODUCTS SUCH AS AMAZON SERVICES AWS AZURE AND DOCKER WHO THIS BOOK IS FOR THIS BOOK IS FOR IT ENGINEERS WHO WANT TO GET STARTED WITH ZABBIX AND ANYONE WITH AN INTERMEDIATE LEVEL UNDERSTANDING OF ZABBIX LOOKING TO EXTEND THEIR KNOWLEDGE ALTHOUGH NOT NECESSARY PRIOR EXPERIENCE WITH ZABBIX WILL HELP YOU TO MAKE THE MOST OF THIS BOOK

DESIGN DEVELOP AND SOLVE REAL WORLD AUTOMATION AND ORCHESTRATION NEEDS BY UNLOCKING THE AUTOMATION CAPABILITIES OF ANSIBLE ABOUT THIS BOOK DISCOVER HOW ANSIBLE WORKS IN DETAIL EXPLORE USE CASES FOR ANSIBLE S ADVANCED FEATURES INCLUDING TASK DELEGATION FAST FAILURES AND SERIAL TASK EXECUTION EXTEND ANSIBLE WITH CUSTOM MODULES PLUGINS AND INVENTORY SOURCES WHO THIS BOOK IS FOR THIS BOOK IS INTENDED FOR ANSIBLE DEVELOPERS AND OPERATORS WHO HAVE AN UNDERSTANDING OF THE CORE ELEMENTS AND APPLICATIONS BUT ARE NOW LOOKING TO ENHANCE THEIR SKILLS IN APPLYING AUTOMATION USING ANSIBLE WHAT YOU WILL LEARN UNDERSTAND ANSIBLE S CODE AND LOGIC FLOW SAFEGUARD SENSITIVE DATA WITHIN ANSIBLE ACCESS AND MANIPULATE COMPLEX VARIABLE DATA WITHIN ANSIBLE PLAYBOOKS HANDLE TASK RESULTS TO MANIPULATE CHANGE AND FAILURE DEFINITIONS ORGANIZE ANSIBLE CONTENT INTO A SIMPLE STRUCTURE CRAFT A MULTI TIER ROLLOUT PLAYBOOK UTILIZING LOAD BALANCERS AND MANIPULATING YOUR MONITORING SYSTEM UTILIZE ADVANCED ANSIBLE FEATURES TO ORCHESTRATE ROLLING UPDATES WITH ALMOST NO SERVICE DISRUPTIONS TROUBLESHOOT ANSIBLE FAILURES TO UNDERSTAND AND RESOLVE ISSUES EXTEND ANSIBLE WITH CUSTOM MODULES PLUGINS OR INVENTORY SOURCES IN DETAIL AUTOMATION IS CRITICAL TO SUCCESS IN THE WORLD OF DEVOPS HOW QUICKLY AND EFFICIENTLY AN APPLICATION DEPLOYMENT CAN BE AUTOMATED OR A NEW INFRASTRUCTURE CAN BE BUILT UP CAN BE THE DIFFERENCE BETWEEN A SUCCESSFUL PRODUCT OR A FAILURE ANSIBLE PROVIDES A SIMPLE YET POWERFUL AUTOMATION ENGINE BEYOND THE BASICS OF ANSIBLE LIE A HOST OF ADVANCED FEATURES WHICH ARE AVAILABLE TO HELP YOU INCREASE EFFICIENCY AND ACCOMPLISH COMPLEX ORCHESTRATIONS WITH EASE THIS BOOK PROVIDES YOU WITH THE KNOWLEDGE YOU NEED TO UNDERSTAND HOW ANSIBLE WORKS AT A FUNDAMENTAL LEVEL AND LEVERAGE ITS ADVANCED CAPABILITIES YOU LL LEARN HOW TO ENCRYPT ANSIBLE CONTENT AT REST

AND DECRYPT DATA AT RUNTIME YOU WILL MASTER THE ADVANCED FEATURES AND CAPABILITIES REQUIRED TO TACKLE THE COMPLEX AUTOMATION CHALLENGES OF TODAY AND BEYOND YOU WILL GAIN DETAILED KNOWLEDGE OF ANSIBLE WORKFLOWS EXPLORE USE CASES FOR ADVANCED FEATURES CRAFT WELL THOUGHT OUT ORCHESTRATIONS TROUBLESHOOT UNEXPECTED BEHAVIOUR AND EXTEND ANSIBLE THROUGH CUSTOMIZATIONS FINALLY YOU WILL DISCOVER THE METHODS USED TO EXAMINE AND DEBUG ANSIBLE OPERATIONS HELPING YOU TO UNDERSTAND AND RESOLVE ISSUES STYLE AND APPROACH A CLEAR PRACTICAL GUIDE THAT COVERS BEST PRACTISE SYSTEM ARCHITECTURE AND DESIGN ASPECTS THAT WILL HELP YOU MASTER ANSIBLE WITH EASE

BUILD PROMETHEUS ECOSYSTEMS WITH METRIC CENTRIC VISUALIZATION ALERTING AND QUERYING KEY FEATURESINTEGRATE PROMETHEUS WITH ALERTMANAGER AND GRAFANA FOR BUILDING A COMPLETE MONITORING SYSTEMEXPLORE PROMQL PROMETHEUS FUNCTIONAL QUERY LANGUAGE WITH EASY TO FOLLOW EXAMPLESLEARN HOW TO DEPLOY PROMETHEUS COMPONENTS USING KUBERNETES AND TRADITIONAL INSTANCESBOOK DESCRIPTION PROMETHEUS IS AN OPEN SOURCE MONITORING SYSTEM IT PROVIDES A MODERN TIME SERIES DATABASE A ROBUST QUERY LANGUAGE SEVERAL METRIC VISUALIZATION POSSIBILITIES AND A RELIABLE ALERTING SOLUTION FOR TRADITIONAL AND CLOUD NATIVE INFRASTRUCTURE THIS BOOK COVERS THE FUNDAMENTAL CONCEPTS OF MONITORING AND EXPLORES PROMETHEUS ARCHITECTURE ITS DATA MODEL AND HOW METRIC AGGREGATION WORKS MULTIPLE TEST ENVIRONMENTS ARE INCLUDED TO HELP EXPLORE DIFFERENT CONFIGURATION SCENARIOS SUCH AS THE USE OF VARIOUS EXPORTERS AND INTEGRATIONS YOU LL DELVE INTO PROMQL SUPPORTED BY SEVERAL EXAMPLES AND THEN APPLY THAT KNOWLEDGE TO ALERTING AND RECORDING RULES AS WELL AS HOW TO TEST THEM AFTER THAT ALERT ROUTING WITH ALERTMANAGER AND CREATING VISUALIZATIONS WITH GRAFANA IS THOROUGHLY COVERED IN ADDITION THIS BOOK COVERS SEVERAL SERVICE DISCOVERY MECHANISMS AND EVEN PROVIDES AN EXAMPLE OF HOW TO CREATE YOUR OWN FINALLY YOU LL LEARN ABOUT PROMETHEUS FEDERATION CROSS SHARDING AGGREGATION AND ALSO LONG TERM STORAGE WITH THE HELP OF THANOS BY THE END OF THIS BOOK YOU LL BE ABLE TO IMPLEMENT AND SCALE PROMETHEUS AS A FULL MONITORING SYSTEM ON PREMISES IN CLOUD ENVIRONMENTS IN STANDALONE INSTANCES OR USING CONTAINER ORCHESTRATION WITH KUBERNETES WHAT YOU WILL LEARNGRASP MONITORING FUNDAMENTALS AND IMPLEMENT THEM USING PROMETHEUSDISCOVER HOW TO EXTRACT METRICS FROM



COMMON INFRASTRUCTURE SERVICES  
 FIND OUT HOW TO TAKE FULL ADVANTAGE OF PROMQL  
 DESIGN A HIGHLY AVAILABLE RESILIENT AND SCALABLE PROMETHEUS  
 STACK  
 EXPLORE THE POWER OF KUBERNETES PROMETHEUS OPERATOR  
 UNDERSTAND CONCEPTS SUCH AS FEDERATION AND CROSS SHARD AGGREGATION  
 UNLOCK SEAMLESS GLOBAL VIEWS AND LONG TERM RETENTION IN CLOUD NATIVE APPS WITH THANOS  
 WHO THIS BOOK IS FOR  
 IF YOU'RE A SOFTWARE DEVELOPER  
 CLOUD ADMINISTRATOR  
 SITE RELIABILITY ENGINEER  
 DEVOPS ENTHUSIAST OR SYSTEM ADMIN  
 LOOKING TO SET UP A FAIL-SAFE MONITORING AND ALERTING  
 SYSTEM FOR SUSTAINING INFRASTRUCTURE SECURITY AND PERFORMANCE  
 THIS BOOK IS FOR YOU  
 BASIC NETWORKING AND INFRASTRUCTURE MONITORING  
 KNOWLEDGE WILL HELP YOU UNDERSTAND THE CONCEPTS COVERED IN THIS BOOK

MONITOR YOUR NETWORK HARDWARE SERVERS AND WEB PERFORMANCE EFFECTIVELY AND EFFICIENTLY

THIS BOOK COMBINES ELEMENTARY THEORY FROM COMPUTER SCIENCE WITH REAL-WORLD CHALLENGES IN GLOBAL GEODETIC OBSERVATION BASED ON EXAMPLES FROM THE GEODETIC OBSERVATORY WETTZELL GERMANY IT STARTS WITH A STEP-BY-STEP INTRODUCTION TO DEVELOPING STABLE AND SAFE SCIENTIFIC SOFTWARE TO RUN SUCCESSFUL SOFTWARE PROJECTS THE USE OF SOFTWARE TOOLBOXES IS ANOTHER ESSENTIAL ASPECT THAT LEADS TO THE APPLICATION OF GENERATIVE PROGRAMMING AN EXAMPLE IS A GENERATIVE NETWORK MIDDLEWARE THAT SIMPLIFIES COMMUNICATION ONE OF THE BOOK'S MAIN FOCUSES IS ON EXPLAINING A POTENTIAL STRATEGY INVOLVING AUTONOMOUS PRODUCTION CELLS FOR SPACE GEODETIC TECHNIQUES THE COMPLETE SOFTWARE DESIGN OF A SATELLITE LASER RANGING SYSTEM IS TAKEN AS AN EXAMPLE SUCH AUTOMATED SYSTEMS ARE THEN COMBINED FOR GLOBAL INTERACTION USING SECURE COMMUNICATION TUNNELS FOR REMOTE ACCESS THE NETWORK OF RADIO TELESCOPES IS USED AS A REFERENCE COMBINED OBSERVATORIES FORM COORDINATED MULTI-AGENT SYSTEMS AND OFFER SOLUTIONS FOR OPERATIONAL ASPECTS OF THE GLOBAL GEODETIC OBSERVING SYSTEM GGOS WITH REGARD TO INDUSTRY 4.0

THIS COMPREHENSIVE GUIDE WILL HELP YOU TO CHOOSE THE RIGHT PRACTICAL OPTION AND MAKE STRATEGIC DECISIONS ABOUT THE OPENSTACK CLOUD ENVIRONMENT TO FIT YOUR INFRASTRUCTURE IN PRODUCTION AT THE START THIS BOOK WILL EXPLAIN THE OPENSTACK CORE ARCHITECTURE YOU WILL SOON BE SHOWN HOW TO CREATE YOUR OWN OPENSTACK PRIVATE CLOUD NEXT YOU WILL MOVE ON TO COVER THE KEY SECURITY LAYER AND NETWORK TROUBLESHOOTING SKILLS ALONG WITH SOME ADVANCED NETWORKING FEATURES FINALLY YOU WILL GAIN EXPERIENCE OF CENTRALIZING AND LOGGING OPENSTACK THE BOOK WILL SHOW YOU HOW TO CARRY OUT PERFORMANCE TUNING BASED ON OPENSTACK SERVICE LOGS BY THE END OF THIS BOOK YOU WILL BE READY TO TAKE STEPS TO DEPLOY AND MANAGE AN OPENSTACK CLOUD WITH THE LATEST OPEN SOURCE TECHNOLOGIES

LEARN HOW TO GATHER DETAILED STATISTICS AND DATA WITH THIS ONE STOP COMPREHENSIVE COURSE ALONG WITH HANDS ON RECIPES TO GET YOUR INFRASTRUCTURE UP AND RUNNING WITH ZABBIX ABOUT THIS BOOK MONITOR YOUR NETWORK AND DEPLOY IMPRESSIVE BUSINESS SOLUTIONS WITH ZABBIX GET PRACTICAL RECIPES TO AUTOMATE YOUR ZABBIX INFRASTRUCTURE AND CREATE IMPRESSIVE GRAPHS INTEGRATE CUSTOMIZE AND EXTEND YOUR MONITORING SOLUTIONS WITH EXTERNAL COMPONENTS AND SOFTWARE WHO THIS BOOK IS FOR THIS COURSE IS FOR SYSTEM ADMINISTRATORS WHO HAVE BEEN MANAGING AND MONITORING INFRASTRUCTURE YOU DO NOT NEED ANY KNOWLEDGE ABOUT ZABBIX WHAT YOU WILL LEARN EFFICIENTLY COLLECT DATA FROM A LARGE VARIETY OF MONITORING OBJECTS ORGANIZE YOUR DATA IN GRAPHS CHARTS MAPS AND SLIDE SHOWS WRITE YOUR OWN CUSTOM PROBES AND MONITORING SCRIPTS TO EXTEND ZABBIX CONFIGURE ZABBIX AND ITS DATABASE TO BE HIGH AVAILABLE AND FAULT TOLERANT AUTOMATE REPETITIVE PROCEDURES USING ZABBIX S API FIND OUT HOW TO MONITOR SNMP DEVICES MANAGE HOSTS USERS AND PERMISSIONS WHILE ACTING UPON MONITORED CONDITIONS SET UP YOUR ZABBIX INFRASTRUCTURE EFFICIENTLY CUSTOMIZE THE ZABBIX INTERFACE TO SUIT YOUR SYSTEM NEEDS MONITOR YOUR VMWARE INFRASTRUCTURE IN A QUICK AND EASY WAY WITH ZABBIX IN DETAIL NOWADAYS MONITORING SYSTEMS PLAY A CRUCIAL ROLE IN ANY IT ENVIRONMENT THEY ARE EXTENSIVELY USED TO NOT ONLY MEASURE YOUR SYSTEM S PERFORMANCE BUT ALSO TO FORECAST CAPACITY ISSUES THIS IS WHERE ZABBIX ONE OF THE MOST POPULAR MONITORING SOLUTIONS FOR NETWORKS AND APPLICATIONS COMES INTO THE PICTURE WITH AN EFFICIENT MONITORING SYSTEM IN

PLACE YOU WILL BE ABLE TO FORESEE WHEN YOUR INFRASTRUCTURE RUNS UNDER CAPACITY AND REACT ACCORDINGLY DUE TO THE CRITICAL ROLE A MONITORING SYSTEM PLAYS IT IS FUNDAMENTAL TO IMPLEMENT IT IN THE BEST WAY FROM ITS INITIAL SETUP THIS AVOIDS MISLEADING CONFUSING OR EVEN WORSE FALSE ALARMS THAT CAN DISRUPT AN EFFICIENT AND HEALTHY IT DEPARTMENT THIS COURSE IS FOR ADMINISTRATORS WHO ARE LOOKING FOR AN END TO END MONITORING SOLUTION IT WILL GET YOU ACCUSTOMED WITH THE POWERFUL MONITORING SOLUTION STARTING WITH INSTALLATION AND EXPLAINING THE FUNDAMENTALS OF ZABBIX MOVING ON WE EXPLORE THE COMPLEX FUNCTIONALITIES OF ZABBIX IN THE FORM OF ENTICING RECIPES THESE RECIPES WILL HELP YOU TO GAIN CONTROL OF YOUR INFRASTRUCTURE YOU WILL BE ABLE TO ORGANIZE YOUR DATA IN THE FORM OF GRAPHS AND CHARTS ALONG WITH BUILDING INTELLIGENT TRIGGERS FOR MONITORING YOUR NETWORK PROACTIVELY TOWARD THE END YOU WILL GAIN EXPERTISE IN MONITORING YOUR NETWORKS AND APPLICATIONS USING ZABBIX THIS LEARNING PATH COMBINES SOME OF THE BEST THAT PACKT HAS TO OFFER IN ONE COMPLETE CURATED PACKAGE IT INCLUDES CONTENT FROM THE FOLLOWING PACKT PRODUCTS ZABBIX NETWORK MONITORING SECOND EDITION ZABBIX COOKBOOK MASTERING ZABBIX SECOND EDITION STYLE AND APPROACH THIS COURSE IS A COMPACT PRACTICAL GUIDE THAT STARTS FROM THE FUNDAMENTALS OF ZABBIX AND TAKES YOU ALL THE WAY TO BUILDING A MONITORING SOLUTION THAT GATHERS DATA FROM A LARGE VARIETY OF SYSTEMS ALONG THE WAY WE WILL DISCUSS THE LOW LEVEL OPERATIONAL DETAILS THAT SHOULD BENEFIT YOU EVEN IF YOU HAVE USED ZABBIX FOR A WHILE IT ALSO FOLLOWS A STEP BY STEP APPROACH THAT IS EASY TO FOLLOW FULL OF ENGAGING EXAMPLES AND WILL HELP YOU APPLY THE THEORY TO PRACTICE

THIS HANDBOOK OFFERS A COMPREHENSIVE OVERVIEW OF CLOUD COMPUTING SECURITY TECHNOLOGY AND IMPLEMENTATION WHILE EXPLORING PRACTICAL SOLUTIONS TO A WIDE RANGE OF CLOUD COMPUTING SECURITY ISSUES WITH MORE ORGANIZATIONS USING CLOUD COMPUTING AND CLOUD PROVIDERS FOR DATA OPERATIONS PROPER SECURITY IN THESE AND OTHER POTENTIALLY VULNERABLE AREAS HAVE BECOME A PRIORITY FOR ORGANIZATIONS OF ALL SIZES ACROSS THE GLOBE RESEARCH EFFORTS FROM BOTH ACADEMIA AND INDUSTRY IN ALL SECURITY ASPECTS RELATED TO CLOUD COMPUTING ARE GATHERED WITHIN ONE REFERENCE GUIDE

PERFORMANCE IS ONE OF THE MAIN ISSUES THAT EVERY ADMINISTRATOR FACES AT ONE POINT OR ANOTHER THIS BOOK WILL HELP YOU TO IDENTIFY AND MITIGATE IT THE BOOK STARTS WITH AN INTRODUCTION TO ZABBIX AND THE MOST COMMON MISTAKES THAT ARE USUALLY OVERLOOKED WHILE DEPLOYING IT YOU WILL DISCOVER THE IMPORTANCE OF AN IMPRESSIVE AND EASY TO USE FRONT END AND HOW TO DEVELOP ONE ALONG WITH COMPARISONS BETWEEN APACHE NGINX AND LIGHT HTTPD WEB SERVERS STORAGE AS AN IMPORTANT ASPECT OF EVERY DEPLOYMENT IS COVERED AND YOU WILL BE SHOWN HOW TO CHOOSE THE RIGHT STORAGE SYSTEM FOR YOU AND CONFIGURE IT TO SUIT YOUR DEPLOYMENT TOWARDS THE END OF THE BOOK YOU WILL WALK THROUGH THE INTRICACIES OF THE OPERATING SYSTEM THE FINAL PIECE OF THE PUZZLE THAT HOLDS ALL THE COMPONENTS TOGETHER YOU WILL THEN DIVE INTO ADVANCED TOPICS INCLUDING USING A SPECIFIC PIECE OF HARDWARE FOR EACH OF THE COMPONENTS THE ZABBIX PROXY AND FIREWALL SETTINGS BY THE END OF THE BOOK YOU WILL BE ABLE TO TUNE YOUR ZABBIX IMPLEMENTATION TO ACHIEVE MAXIMUM PERFORMANCE

THIS UP TO DATE MIKE MEYERS EXAM GUIDE DELIVERS COMPLETE COVERAGE OF EVERY TOPIC ON THE N10-008 VERSION OF THE COMPTIA NETWORK CERTIFICATION EXAM GET COMPLETE COVERAGE OF ALL THE COMPTIA NETWORK EXAM OBJECTIVES INSIDE THIS COMPREHENSIVE RESOURCE CREATED AND EDITED BY MIKE MEYERS THE LEADING EXPERT ON COMPTIA CERTIFICATION AND TRAINING COMPTIA NETWORK CERTIFICATION ALL IN ONE EXAM GUIDE EIGHTH EDITION COVERS EXAM N10-008 IN FULL DETAIL YOU WILL FIND LEARNING OBJECTIVES AT THE BEGINNING OF EACH CHAPTER EXAM TIPS SCENARIOS PRACTICE EXAM QUESTIONS AND IN DEPTH EXPLANATIONS DESIGNED TO HELP YOU PASS THE EXAM WITH EASE THIS AUTHORITATIVE GUIDE ALSO SERVES AS AN ESSENTIAL ON THE JOB REFERENCE COVERS ALL EXAM TOPICS INCLUDING NETWORK ARCHITECTURES CABLING AND TOPOLOGY ETHERNET BASICS NETWORK INSTALLATION TCP/IP APPLICATIONS AND NETWORK PROTOCOLS ROUTING NETWORK NAMING ADVANCED NETWORKING DEVICES IPV6 REMOTE CONNECTIVITY WIRELESS NETWORKING VIRTUALIZATION AND CLOUD COMPUTING MOBILE NETWORKING NETWORK OPERATIONS MANAGING RISK NETWORK SECURITY NETWORK MONITORING AND TROUBLESHOOTING ONLINE CONTENT INCLUDES 100 PRACTICE EXAM QUESTIONS IN A CUSTOMIZABLE TEST ENGINE 20 LAB SIMULATIONS TO HELP YOU PREPARE FOR THE PERFORMANCE BASED QUESTIONS ONE HOUR OF VIDEO TRAINING FROM MIKE MEYERS MIKE MEYERS FAVORITE SHAREWARE AND FREeware

## NETWORKING TOOLS AND UTILITIES

LEARN ZABBIX MONITOR CORPORATE ENVIRONMENTS NETWORKS AND APPLICATIONS WITH AUTOMATION AND INTEGRATED ALERTS THIS BOOK IS IDEAL FOR PROFESSIONALS AND STUDENTS WHO WANT TO MASTER ZABBIX WITH TECHNICAL DEPTH APPLYING SCALABLE MONITORING SOLUTIONS IN HYBRID MULTI CLOUD AND HIGHLY REGULATED ENVIRONMENTS WITH A FOCUS ON AUTOMATION INTEGRATION AND VISUALIZATION THE BOOK COVERS THE USE OF ZABBIX IN CRITICAL OPERATIONS WITH SUPPORT FOR LEADING MARKET TOOLS YOU WILL LEARN HOW TO STRUCTURE THE COMPLETE ZABBIX ARCHITECTURE CONFIGURE AGENTS PROXIES AND SERVERS ORCHESTRATE ENVIRONMENTS USING ANSIBLE TERRAFORM AND DOCKER INTEGRATE WITH GRAFANA PROMETHEUS VMWARE SNMP IPMI AND REST APIS AND DEPLOY SECURE AND AUDITABLE SOLUTIONS ACROSS MAJOR CLOUD PLATFORMS AWS GOOGLE CLOUD MICROSOFT AZURE AND ORACLE CLOUD INCLUDES ADVANCED ZABBIX INSTALLATION WITH POSTGRESQL NGINX AND TLS INTEGRATION WITH GRAFANA PROMETHEUS SNMP IPMI VMWARE DOCKER AND KUBERNETES ENVIRONMENT ORCHESTRATION WITH ANSIBLE TERRAFORM SHELL SCRIPTING AND CI CD MULTI CLOUD MONITORING AWS GOOGLE CLOUD AZURE AND ORACLE CLOUD DYNAMIC DASHBOARDS WIDGETS TOPOLOGY MAPS AND EXECUTIVE REPORTS SMART ALERTS AUTOMATED RESPONSES ITSM SIEM SAML RBAC AND HARDENING MASTER ZABBIX AS A REFERENCE SOLUTION FOR MODERN INFRASTRUCTURE UNIFYING VISIBILITY SECURITY AND AUTOMATION IN LARGE SCALE PROJECTS WITH CORPORATE GRADE OBSERVABILITY ZABBIX GRAFANA PROMETHEUS SNMP TERRAFORM ANSIBLE GOOGLE CLOUD AZURE AWS CLOUD MONITORING

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