**A**

A DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

AAAA DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

access control lists (ACLs), [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)

accounts, creating, [4](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_4)–8

ACFS (ASM File System), [242](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_242)

ACTION commands in instance power management, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

Active Data Guard (ADG) option, [293](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_293), [355](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_355)

Active Directory in federated OCI, [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)

AD attribute in block volumes, [189](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_189)

ADB. *See* autonomous database (ADB) systems

Add SSH Key screen, [158](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_158)

add-vnic command, [175](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_175)

administration in autonomous database systems, [302](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_302)–303

ADs. *See* availability domains (ADs)

ADW (Autonomous Data Warehouse) services, [239](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_239)–240

vs. ATP, [294](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_294)

resources, [53](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_53)

ALIAS DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

Amazon Web Services (AWS), [11](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_11)

AMD processors for compute shapes, [143](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_143)

API keys

OCI CLI, [327](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_327)

Terraform, [334](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_334)

APIs

federated OCI, [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)–66

IAM resources, [40](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_40)

OCIDs for, [47](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_47)

permissions, [36](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_36)–38

apply command in HCL, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337)–338

archive storage, [21](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_21)–22

archive tier buckets, [215](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_215)–217

ASM (Automatic Storage Management), [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)–243

ASM File System (ACFS), [242](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_242)

asynchronous replication, [350](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_350)

ATP (Autonomous Transaction Processing) services, [239](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_239)

vs. ADW, [294](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_294)

description, [293](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_293)

resources, [53](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_53)

Attach Dynamic Routing Gateway screen, [113](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_113)

attaching block volumes, [192](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_192)–195

authentication

Auth tokens, [32](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_32)

autonomous database systems, [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)

database backups, [275](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_275)

federated OCI, [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)–66

IAM. *See* Identity and Access Management (IAM)

OCI CLI, [325](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_325)

automatic backups, [277](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_277), [279](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_279)–281

Automatic Storage Management (ASM), [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)–243

automation tools, [321](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_321)

OCI CLI, [321](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_321)–333

questions, [340](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_340)–342

review, [340](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_340)

Terraform, [333](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_333)–339

Autonomous Data Warehouse (ADW) services, [239](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_239)–240

vs. ATP, [294](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_294)

resources, [53](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_53)

autonomous database (ADB) systems

backups and recovery, [300](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_300)–301

connecting, [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)–300

creating, [294](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_294)–297

HADR architecture, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)

operating, [301](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_301)–303

variants, [293](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_293)–294

Autonomous Transaction Processing (ATP) services, [239](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_239)

vs. ADW, [294](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_294)

description, [293](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_293)

resources, [53](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_53)

autoscaling

custom images, [147](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_147)

instance pools, [178](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_178)–179

availability

Data Guard, [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

database migration, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308)

HADR architecture. *See* HADR architecture

availability domains (ADs)

compute instances, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)

description, [2](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_2)–3

HADR architecture, [345](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_345)–346

overview, [11](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_11)–15

resources, [43](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_43)–47

AVAILABLE attribute in block volume lifecycle-state, [190](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_190)

AWS (Amazon Web Services), [11](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_11)

**B**

backend sets, [19](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_19), [130](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_130)–132

backups

autonomous database systems, [300](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_300)–301

block volumes, [189](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_189), [204](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_204)–213

console, [277](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_277)–281

copying, [212](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_212)–213

Database Cloud Services, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267)–282

dbcli utility, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267)–273

Exadata, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)–282

full, [207](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_207)

manual, [205](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_205)–206

policies, [205](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_205)

RMAN, [273](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_273)–277

volume groups, [208](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_208)–210

bandwidth of networks, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

Bare Metal Cloud Services (BMCS), [240](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_240)

bare-metal machines and database systems

block volume connections, [192](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_192)

compute instances, [15](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_15), [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20), [22](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_22), [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)–143

Database Cloud Services, [242](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_242)–246

Exadata, [247](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_247)–248

hypervisors, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142), [152](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_152)

IP address space and DNS requirements, [256](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_256)

network requirements, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)

servers, [3](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_3)

virtual machines, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250), [257](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_257)

Berkeley Internet Name Domain (BIND), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)

best practice architectures. *See* HADR architecture

BGP (Border Gateway Protocol), [90](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_90), [349](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_349)

bi-directional topology in GoldenGate, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)

BIND (Berkeley Internet Name Domain), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)

blkid command, [200](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_200)

block size in database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

block storage, [21](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_21)

attaching, [192](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_192)–195

backups, [204](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_204)–213

connecting, [195](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_195)–198

creating, [189](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_189)–192

deleting, [210](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_210)

file systems, [198](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_198)–199

formatting, [198](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_198)–200

groups, [207](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_207)–210

mounting, [199](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_199)–200

overview, [188](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_188)–189

presenting, [200](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_200)–204

recovery, [210](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_210)–213

Block Volume service

boot volumes, [150](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_150)

OCI CLI, [330](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_330)

BMCS (Bare Metal Cloud Services), [240](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_240)

boot volumes

compute instances, [149](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_149)–151

description, [189](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_189)

Border Gateway Protocol (BGP), [90](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_90), [349](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_349)

Bring Your Own Hypervisor (BYOH), [151](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_151)–152

bring your own license (BYOL), [23](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_23), [257](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_257)–258, [286](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_286)–287

broadcast addresses in CIDR, [76](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_76)

broadcast topology in GoldenGate, [355](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_355)

Bucket Resource-Type for permissions, [36](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_36)–38

buckets

archive tier, [215](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_215)–217

backups, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267)–268, [270](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_270)–271, [273](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_273)–277

credentials, [32](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_32)

multipart uploads, [219](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_219)–220

object storage, [21](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_21)–22, [188](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_188), [213](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_213)–215

permissions, [36](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_36)–38

pre-authenticated requests, [220](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_220)–221

standard tier, [217](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_217)–219

bulk loader in database migration, [310](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_310)–311

business units in IAM, [31](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_31)

bv backup command, [330](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_330)

BYOH (Bring Your Own Hypervisor), [151](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_151)–152

BYOL (bring your own license), [23](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_23), [257](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_257)–258, [286](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_286)–287

**C**

cascading topology in GoldenGate, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)

CDBs (container databases)

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)

database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

certificate-based authentication, [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)

Challenge Handshake Authentication Protocol (CHAP), [193](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_193), [195](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_195)–198

character sets

Database Cloud Services, [261](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_261)

database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

child compartments, [35](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_35)

Choose Instance Type screen, [157](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_157)

Classless Inter-Domain Routing (CIDR)

OCI CLI, [332](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_332)

overview, [75](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_75)–79

VNC design, [18](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_18), [136](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_136)

cloud computing models, [9](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_9)–11

clusters. *See* Real Application Clusters (RACs)

CNAME DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

colocation model in FastConnect, [89](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_89)

command-line interface. *See* OCI command line interface (CLI)

compartments

block volumes, [189](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_189)

creating, [44](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_44)–47

IAM, [29](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_29)–31

policies, [35](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_35)

resources, [57](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_57)–60

complexity in database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

compute instances, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)

autoscaling, [178](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_178)–179

boot volumes, [149](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_149)–151

compute images, [144](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_144)–152, [162](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_162)–167

compute service components, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)–152

compute shapes, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)–144

configurations, [176](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_176)–179

console connections, [179](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_179)–182

creating, [152](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_152)–162

dynamic groups, [67](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_67), [69](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_69)

HADR architecture, [346](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_346)–348, [350](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_350)–351, [358](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_358)

introduction, [141](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_141)

managing, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)–175

metadata, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

multiple vNICs, [175](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_175)

pools, [176](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_176)–178

power management, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

questions, [183](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_183)–185

review, [182](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_182)

virtual cloud networks, [84](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_84)

Windows, [170](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_170)–173

conditions in policies, [54](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_54)–56

connections

autonomous database systems, [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)–300

block volumes, [195](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_195)–198

compute instances, [179](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_179)–182

database migration, [304](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_304)

console

autonomous database systems, [294](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_294)–297

backups, [277](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_277)–281

compute instances connections, [179](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_179)–182

launching, [8](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_8)

consolidation topology in GoldenGate, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)

container databases (CDBs)

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)

database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

Copy Block Volume Backup screen, [212](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_212)

copying backups, [212](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_212)–213

cores in processor-based licensing, [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

costs

database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

IAM, [31](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_31)

CPE (Customer Premises Equipment), [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)

CPUs

autonomous database systems, [301](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_301)

description, [2](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_2)

Create Autonomous Database screen, [295](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_295)

Create Backup screen, [278](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_278)

create-backupconfig command, [271](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_271)–272

Create Block Volume screen, [190](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_190)–191

Create Compute Instance screen, [157](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_157), [164](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_164), [170](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_170)–171

Create Custom Image screen, [163](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_163)

Create Dynamic Routing Gateway screen, [112](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_112)

Create File System screen, [226](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_226)

Create Internet Gateway screen, [254](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_254)

Create Load Balancer screen, [167](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_167)–168

Create Local Peering Gateway screen, [107](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_107)–108

Create Namespace Definition screen, [50](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_50)–51, [58](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_58)

Create NAT Gateway screen, [100](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_100)–101

create-objectstoreswift command, [271](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_271)

Create Pre-Authenticated Request screen, [220](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_220)–221

Create Remote Peering Connection screen, [113](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_113)

create-rmanbackupreport command, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)

Create Route Table screen, [101](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_101)–102, [105](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_105)

Create Service Gateway screen, [104](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_104), [253](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_253)

Create Subnet screen, [97](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_97)–98

Create Virtual Cloud Network screen, [96](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_96)–97, [252](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_252)

Create Volume Group screen, [208](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_208), [211](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_211)

credentials for accounts, [32](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_32)–33

cross-platform transportable tablespaces in abase migration, [313](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_313)

CSI (Customer Support Identifier) numbers, [7](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_7)

custom images

compute instances, [146](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_146)–149

creating, [162](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_162)–167

Custom Resolver, [118](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_118)

Customer Premises Equipment (CPE), [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)

Customer secret keys in federated OCI, [65](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_65)

Customer Support Identifier (CSI) numbers, [7](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_7)

**D**

data center failures, [288](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_288)

DATA disk group

bare metal database systems, [245](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_245)

database files, [243](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_243)

description, [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)

Exadata, [248](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_248)–249

Data Guard

database migration, [312](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_312)

HADR architecture, [343](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_343), [353](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_353)–355

high availability, [290](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_290)–293

Data Pump, [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309)–310, [313](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_313)–314

data residency regulations in GoldenGate, [28](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_28)

Data Transfer Appliances, [305](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_305)

data transfer service for base migration, [304](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_304)–306, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308)

Data Transfer Utility (DTU)

database migration, [305](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_305)

resource locations, [39](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_39)

Database as a Service (DBaaS)

description, [9](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_9)–10

HADR architecture, [352](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_352)

Database Cloud Services (DBCS), [239](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_239)

backups, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267)–282

bare metal database systems, [242](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_242)–246

Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291)–292

dbcli utility, [265](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_265)–267

description, [22](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_22)–23

encryption, [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

Exadata, [247](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_247)–249

licensing, [286](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_286)–287

network requirements, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)–267

overview, [240](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_240)–242

patching, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)–283

SQL Developer, [264](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_264)–265

SQL\*Plus utility, [262](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_262)–264

VM, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250), [257](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_257)–262

Database Connection screen, [299](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_299)

database HADR, [351](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_351)–356

database resource managers, [298](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_298)

databases, [239](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_239)–240

autonomous database systems, [293](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_293)–303

bare-metal. *See* bare-metal machines and database systems

Database Cloud Services, [283](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_283)

HADR architecture, [358](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_358)

high availability, [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)–293

licensing, [283](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_283)–287

migration. *See* migration of databases

questions, [317](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_317)–319

review, [316](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_316)–317

db version list command, [331](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_331)

DBaaS (Database as a Service)

description, [9](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_9)–10

HADR architecture, [352](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_352)

dbcli utility

backups, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267)–273, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)

Database Cloud Services, [265](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_265)–267

encryption, [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

DBCS. *See* Database Cloud Services (DBCS)

DBMS\_CLOUD.CREATE\_CREDENTIAL package, [300](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_300)

DCS-10045 validation error in backups, [272](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_272)

DDoS (distributed denial of service) attacks

DNS protection for, [121](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_121)

HADR architecture, [351](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_351)

defined tags, [50](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_50)–52

deleting block volumes, [210](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_210)

DenseIO compute, [350](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_350)

describe-rmanbackupreport command, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)

destroy command in HCL, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337), [339](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_339)

DHCP

IP addresses, [84](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_84)

networks, [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74)–75

options, [81](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_81), [98](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_98)

subnets, [117](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_117)

VCNs, [97](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_97), [118](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_118)

Disaster Recovery (DR), [343](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_343)

autonomous database systems, [300](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_300)–301

availability domains, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

block volumes, [210](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_210)–213

HADR architecture. *See* HADR architecture

disk-based database backups, [268](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_268)–270

distributed denial of service (DDoS) attacks

DNS protection for, [121](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_121)

HADR architecture, [351](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_351)

DNAME DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

dnsdomain command, [118](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_118)

Domain Name System (DNS)

concepts and features, [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)–120

Database Cloud Services requirements, [256](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_256)

description, [19](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_19)

HADR architecture, [347](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_347)

in OCI, [115](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_115)–126

records, [121](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_121)–126

downloading objects, [216](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_216)–218

DRGs. *See* Dynamic Routing Gateways (DRGs)

DTU (Data Transfer Utility)

database migration, [305](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_305)

resource locations, [39](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_39)

dynamic groups

description, [38](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_38)–39

setting up, [66](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_66)–69

Dynamic Routing Gateways (DRGs)

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)–251

description, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)

overview, [88](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_88)–90

RPCs, [94](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_94)

**E**

East–West traffic, [137](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_137), [358](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_358)

edge security in networking, [137](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_137)

Edit Route Rules screen, [110](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_110), [115](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_115)

Egress Rules screen, [256](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_256)

egress security list rules, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)

emulated mode for custom images, [147](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_147)–148

encryption

block volumes, [189](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_189)

Database Cloud Services, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267), [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

SSH key pairs, [154](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_154)

wallet backups, [270](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_270)–271

end-to-end SSL, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)

ephemeral IP addresses, [85](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_85)

equality operators for dynamic groups, [67](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_67)

Establish Peering Connection screen, [109](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_109)

/etc/fstab file, [198](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_198)–199

/etc/hosts file, [119](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_119)

/etc/nsswitch.conf file, [119](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_119)

/etc/resolv.conf file, [119](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_119)–120

Exadata

backups, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)–282

Database Cloud Services, [247](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_247)–249

servers, [239](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_239)–240

Exadata Cloud at Customer (ExaCC), [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309)

Exadata on DBCS (ExaCS), [247](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_247)

Exchange Partner for FastConnect, [349](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_349)

export options and utilities

database migration, [311](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_311)–312

FSS, [224](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_224)

**F**

failover role transitions in Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

family resource-types in policies, [52](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_52)–54

Fast Application Notification (FAN) Event traffic, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

Fast Recovery Area (FRA)

backups, [273](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_273)

Database Cloud Services, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267)

Exadata backups, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)

fast-start-fail-over (FSFO) in Data Guard, [293](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_293)

FastConnect

autonomous database systems, [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)

database migration, [304](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_304)

description, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)

Dynamic Routing Gateways, [89](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_89)

HADR architecture, [348](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_348)–349

fault domains, [12](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_12)

fault-tolerant data centers, [11](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_11)

FAULTY attribute in block volume lifecycle-state, [190](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_190)

fdisk command, [197](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_197)–199

federated OCI, [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)–66

file storage service (FSS), [187](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_187)–188, [222](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_222)

concepts, [222](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_222)–224

creating, [225](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_225)–232

description, [22](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_22)

snapshots, [232](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_232)–234

file systems, creating, [198](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_198)–199

formatting block volumes, [198](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_198)–200

FQDNs (fully qualified domain names), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)–118, [256](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_256)

FRA (Fast Recovery Area)

backups, [273](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_273)

Database Cloud Services, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267)

Exadata backups, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)

free-form tags, [49](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_49)–50

FSFO (fast-start-fail-over) in Data Guard, [293](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_293)

FSS. *See* file storage service (FSS)

full backups

block volumes, [205](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_205)

creating, [207](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_207)

Exadata, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)–282

managed, [277](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_277)

RMAN, [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309)

fully qualified domain names (FQDNs), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)–118, [256](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_256)

**G**

gateways, [86](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_86)

BGP, [90](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_90), [349](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_349)

Database Cloud Services, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)–252

database migration, [304](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_304)

DRGs, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20), [88](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_88)–90, [94](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_94), [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)–251

dynamic routing, [88](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_88)–90

Internet, [87](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_87)

local peering, [93](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_93)–94

NAT, [87](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_87)–88, [100](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_100)–103

remote peering connection, [93](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_93)–95

service, [90](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_90)–93, [103](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_103)–106

get command for Internet gateways, [87](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_87)

global resources, [40](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_40)–43

gold images, [146](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_146)

GoldenGate topologies, [355](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_355)–356

graph command in HCL, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337)

Grid Infrastructure (GI)

description, [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)

HADR architecture, [352](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_352)

patches, [283](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_283)

RAC, [288](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_288)

groups

block volumes, [207](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_207)–210

creating, [60](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_60)–63

dynamic, [38](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_38)–39, [66](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_66)–69

IAM, [33](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_33)–34

Guided Journey screen, [7](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_7)–8

**H**

HADR architecture

autonomous database systems, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)

compute instances, [358](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_358)

Data Guard, [353](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_353)–355

database, [351](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_351)–356

designing, [344](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_344)–356

GoldenGate, [355](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_355)–356

IAM, [357](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_357)

networking, [357](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_357)–358

overview, [343](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_343)

performance-based, [351](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_351)

questions, [359](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_359)–361

RACs, [353](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_353)

regions and availability domains, [345](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_345)–346

review, [358](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_358)

security, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)–358

single-instance databases, [352](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_352)

storage and compute instances, [350](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_350)–351

VCNs, load balancers, and compute instances, [346](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_346)–348

VPN and FastConnect, [348](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_348)–349

hard disk drives (HDDs) in database migration, [305](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_305)

hardware-based encryption, [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

HashiCorp Configuration Language (HCL), [333](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_333), [336](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_336)–337

Health Checks for backend sets, [131](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_131)–132

high availability (HA), [343](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_343)

Data Guard, [290](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_290)–293

HADR. *See* HADR architecture

overview, [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)–288

RACs, [288](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_288)–290

HIGH priority in autonomous database systems, [298](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_298)

host address space in CIDR, [76](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_76)–78

hostname command, [118](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_118)

hostnames in load balancers, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)

Hybrid Columnar Compression, [247](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_247)

Hyper-V hypervisors, [152](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_152)

hyperthreading in processor-based licensing, [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

hypervisors, [151](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_151)–152

**I**

IaaS (Infrastructure as a Service), [2](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_2), [9](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_9)–11

IaC (Infrastructure-as-Code)

automation tools, [321](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_321)

OCI CLI, [332](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_332)

IAM. *See* Identity and Access Management (IAM)

iam region list command, [327](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_327)

IANA (Internet Assigned Numbers Authority), [80](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_80), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)

ICANN (Internet Corporation for Assigned Names and Numbers), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)

IDCS (Identity Cloud Service)

accounts, [6](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_6)–7

federated OCI, [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)

Identity and Access Management (IAM)

concepts, [27](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_27)–28

dynamic groups, [66](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_66)–69

federated OCI, [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)–66

FSS, [224](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_224)

groups, [33](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_33)–34, [38](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_38)–39

HADR architecture, [351](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_351), [357](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_357)

introduction, [27](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_27)

overview, [16](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_16)–18

policies, [34](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_34)–38, [52](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_52)–56

questions, [70](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_70)–72

resource creation, [56](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_56)–63

resource identifiers, [47](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_47)–48

resource locations, [39](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_39)–47

resource overview, [28](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_28)–29

review, [69](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_69)

tags, [49](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_49)–52

tenancy and compartments, [29](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_29)–31

users, [31](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_31)–33

Identity Cloud Service (IDCS)

accounts, [6](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_6)–7

federated OCI, [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)

identity providers (IdPs) in federated OCI, [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)–66

images, compute, [144](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_144)–152, [162](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_162)–167

import utilities in database migration, [311](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_311)–312

incremental backups

block volumes, [205](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_205)

console, [277](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_277), [279](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_279)–281

indexing in autonomous database systems, [302](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_302)

inequality operators for dynamic groups, [67](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_67)

Infrastructure as a Service (IaaS), [2](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_2), [9](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_9)–11

Infrastructure-as-Code (IaC)

automation tools, [321](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_321)

OCI CLI, [332](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_332)

Ingress Rules screen, [255](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_255)

init command in HCL, [336](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_336)

inspect verb for permissions, [36](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_36)–38

installing

OCI CLI, [322](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_322)–325

Terraform, [334](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_334)–335

Internet and VCN Resolver, [118](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_118)

Internet Assigned Numbers Authority (IANA), [80](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_80), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)

Internet Corporation for Assigned Names and Numbers (ICANN), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)

Internet gateways

Database Cloud Services, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

database migration, [304](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_304)

overview, [87](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_87)

Internet service providers (ISPs), [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74)

IP addresses

CIDR, [76](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_76)–77

Database Cloud Services, [256](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_256)

DNS. *See* Domain Name System (DNS)

gateways, [86](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_86)–95

load balancers, [347](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_347)

networks, [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74)–75

private, [83](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_83)–84

public, [85](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_85)–86

virtual cloud networks, [80](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_80), [83](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_83)–86

IP hash policy for load balancers, [132](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_132)

IPSec VPN

database migration, [304](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_304)

Dynamic Routing Gateways, [89](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_89)

iSCSI attachments, [192](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_192)–198

iSCSI Commands & Information screen, [202](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_202)

iscsiadm command, [197](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_197)–198

isolation in availability domains, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

ISPs (Internet service providers), [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74)

**J**

JSON files

free-form tags, [49](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_49)

OCI CLI, [328](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_328), [330](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_330), [332](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_332)–333

Terraform, [333](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_333), [336](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_336)

**K**

Keep Policy Current option, [38](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_38)

kernel-based VM (KVM), [152](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_152)

key management system (KMS), [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

Key Vault for encryption, [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

keys

credentials, [32](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_32)–33

federated OCI, [65](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_65)

OCI CLI, [327](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_327)–328

SSH, [154](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_154)–156

tags, [50](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_50)

Terraform, [334](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_334)

KMS (key management system), [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

KVM (kernel-based VM), [152](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_152)

**L**

labels in DNS, [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)

large objects in multipart uploads, [219](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_219)–220

latency in networks, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

Launch DB System screen

bare metal systems, [244](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_244)

DB systems on VMs, [257](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_257)

high availability, [289](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_289)

least connections policy for load balancers, [132](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_132)

licensing databases, [283](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_283)–287

list-backupconfigs command, [272](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_272)

list-vnics command, [175](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_175)

Listener Information screen, [133](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_133)

listeners in load balancers, [19](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_19), [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)–130

load balancers (LBs)

backend sets, [130](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_130)–132

HADR architecture, [346](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_346)–348

instance pools, [177](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_177)

listeners, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)–130

networking, [19](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_19)

in OCI, [126](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_126)–135

private, [127](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_127)

public, [127](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_127)–129

routing traffic to web servers, [167](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_167)–170

setting up, [132](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_132)–135

terminology and concepts, [126](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_126)–135

local peering gateways (LPGs), [93](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_93)–94

local peering setup, [106](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_106)–111

logical standby in Data Guard, [290](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_290)–291

LOW priority in autonomous database systems, [298](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_298)

LPGs (local peering gateways), [93](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_93)–94

**M**

MAA (Maximum Availability Architecture) in database migration, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308), [310](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_310), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

manage verb in policies, [34](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_34)–38

managed recovery in Data Guard, [290](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_290)

manual backups, [205](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_205)–206

master images, [146](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_146)

matching rules in dynamic groups, [67](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_67)

Maximum Availability Architecture (MAA) in database migration, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308), [310](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_310), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

Maximum Availability mode in Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

Maximum Performance mode in Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

Maximum Protection mode in Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291)

MEDIUM priority in autonomous database systems, [298](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_298)

metadata in compute instances, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

metrics

named user plus licensing, [286](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_286)–287

processor-based licensing, [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

migration of databases, [303](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_303)–304

approaches, [306](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_306)–310

connectivity, [304](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_304)

Data Guard, [312](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_312)

Data Pump, [313](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_313)–314

data transfer service, [304](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_304)–306

export and import utilities, [311](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_311)–312

multitenant approaches, [314](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_314)–315

RMAN, [313](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_313)

SQL Developer, [315](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_315)–316

SQL\*Loader, [310](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_310)–311

monitoring autonomous database systems, [302](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_302)–303

mount targets in FSS, [225](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_225)–232

mounting block volumes, [199](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_199)–200

multipart uploads for large objects, [219](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_219)–220

multiple vNICs, [175](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_175)

multitenancy

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)

database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307), [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309), [314](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_314)–315

MX DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

**N**

NAME component in DNS resource record, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

named user plus (NUP) licensing, [283](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_283), [286](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_286)–287

names

block volumes, [189](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_189)

buckets, [214](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_214)–215

DNS. *See* Domain Name System (DNS)

shapes, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20), [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)

tags, [49](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_49)–52

usernames, [32](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_32)

native mode for custom images, [147](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_147)–148

netmasks in CIDR, [77](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_77)–78

network address translation (NAT) gateways

Database Cloud Services, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

deploying, [100](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_100)–103

overview, [87](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_87)–88

network file system (NFS), [22](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_22), [222](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_222)

network identifiers in CIDR, [76](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_76)

Network Information screen, [133](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_133)

network vcn command, [330](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_330), [332](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_332)

network virtualization, off-box, [15](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_15)–16

networks and networking, [2](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_2)

CIDR, [75](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_75)–79

concepts and terminology, [73](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_73)–75

Database Cloud Services requirements, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)–267

DNS, [19](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_19), [115](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_115)–126

Dynamic Routing Gateway, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)

edge security, [137](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_137)

FastConnect, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)

HADR architecture, [357](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_357)–358

introduction, [73](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_73)

load balancers, [19](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_19), [126](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_126)–135

performance, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

questions, [138](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_138)–140

review, [137](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_137)–138

virtual cloud networks, [18](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_18)–19

VNC design, [135](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_135)–136

NFS (network file system), [22](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_22), [222](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_222)

NFSv3 Unix security, [224](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_224)

Nimbula Director, [4](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_4)

node failures in high availability, [288](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_288)

noisy neighbor situations, [15](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_15)

non-volatile storage components, [1](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_1)

North–South traffic, [137](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_137), [358](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_358)

NS DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

nslookup command, [120](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_120)

NUP (named user plus) licensing, [283](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_283), [286](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_286)–287

NVIDIA processors for compute shapes, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)–143

NVMe disks in HADR architecture, [350](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_350)

**O**

OAM (Oracle Access Manager), [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)

object storage, [213](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_213)

buckets, [213](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_213)–219

Exadata backups, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)

multipart uploads, [219](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_219)–220

overview, [21](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_21)–22

pre-authenticated requests, [220](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_220)–221

pseudo-hierarchies, [218](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_218)–219

RMAN backups, [275](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_275)–277

objectstoreswift resources for backups, [271](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_271)

OCI command line interface (CLI)

buckets, [215](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_215)

configuring, [325](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_325)–328

installing, [322](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_322)–325

overview, [321](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_321)–322

resource locations, [39](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_39)

supported database lists, [331](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_331)–333

working with, [328](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_328)–330

OCI console for buckets, [215](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_215)

OCI users for Exadata backups, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)

OCIDs. *See* Oracle Cloud IDs (OCIDs)

OCPUs (Oracle Compute Processing Units), [3](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_3)

compute shapes, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)

processor-based licensing, [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

OEM (Oracle Enterprise Manager), [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)

off-box network virtualization, [15](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_15)–16

olsnodes command, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)

OLTP-specific services, [298](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_298)

on-premises networks, [73](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_73)–74

one-off patches in database migration, [306](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_306)

ONS (Oracle Notification Services), [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

OPC (Oracle Public Cloud), [4](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_4)

optimizing autonomous database systems, [302](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_302)

Oracle Access Manager (OAM), [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)

Oracle Call Interface, [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)

Oracle Cloud IDs (OCIDs), [35](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_35)

Dynamic Routing Gateways, [90](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_90)

FSS, [233](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_233)

images, [151](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_151)

policies, [35](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_35)

remote peering connection, [94](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_94)

resource identifiers, [47](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_47)–48

Terraform, [334](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_334)

Oracle Cloud Infrastructure Classic, [1](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_1)

Oracle Cloud Infrastructure (OCI) overview, [1](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_1)

accounts, [4](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_4)–8

cloud computing models, [9](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_9)–11

compute instances, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)

Database Cloud Service, [22](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_22)–23

features and components overview, [11](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_11)

Identity and Access Management, [16](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_16)–18

introduction, [1](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_1)–8

load balancers, [126](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_126)–135

networking, [18](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_18)–20

off-box network virtualization, [15](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_15)–16

questions, [24](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_24)–26

regions and availability domains, [11](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_11)–15

review, [24](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_24)

storage, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)–22

Oracle Compute Processing Units (OCPUs), [3](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_3)

compute shapes, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)

processor-based licensing, [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

Oracle Enterprise Manager (OEM), [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)

ORACLE HOME location, [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)

Oracle images, [145](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_145)

Oracle Network Provider for FastConnect, [349](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_349)

Oracle Notification Services (ONS), [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

Oracle Public Cloud (OPC), [4](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_4)

Oracle Virtual Machine (OVM)

description, [2](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_2)

hypervisors, [152](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_152)

**P**

PaaS, [9](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_9)–11

paravirtualized attachments in block volumes, [192](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_192)

paravirtualized mode for custom images, [147](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_147)–148

PARs (pre-authenticated requests) for object storage, [220](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_220)–221

partitions for block volumes, [198](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_198)–200

partner images, [145](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_145)

passwords in federated OCI, [65](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_65)

patching

autonomous database systems, [302](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_302)

Database Cloud Services, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)–283

database migration, [306](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_306)

path route rules for load balancers, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)

Path Route Sets for load balancers, [19](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_19)

PDBs (pluggable databases)

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)

database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

peer-to-peer topology in GoldenGate, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)

PEM key pairs in Terraform, [334](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_334)

performance

Data Guard, [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

networks, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

performance-based HADR, [351](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_351)

permissions

overview, [35](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_35)–38

tags, [51](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_51)

physical standby mode in Data Guard, [290](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_290)

PITR (point-in-time recovery)

backups, [280](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_280)

Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

plan command in HCL, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337)–338

platform images, [144](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_144)–145

pluggable databases (PDBs)

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)

database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

point-in-time recovery (PITR)

backups, [280](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_280)

Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

policies

backups, [205](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_205)

conditions, [54](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_54)–56

creating, [60](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_60)–63

family resource-types, [52](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_52)–54

IAM, [34](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_34)–38

locations, [54](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_54)–55

Policies Resource-Type for permissions, [37](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_37)

pools in compute instances, [176](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_176)–178

power management in compute instances, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

pre-authenticated requests (PARs) for object storage, [220](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_220)–221

presenting block volumes, [200](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_200)–204

private IP addresses, [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74), [83](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_83)–84

private load balancers

compartments, [127](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_127)

HADR architecture, [347](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_347)

private peering in FastConnect, [89](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_89), [348](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_348)

private subnets with dynamic routing gateways, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

processor-based licensing, [283](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_283)–285

protection

Data Guard, [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

HADR architecture, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)–358

providers in HCL, [336](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_336)

PROVISIONING attribute in block volume lifecycle-state, [190](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_190)

provisioning state in instance pools, [177](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_177)

pseudo-hierarchies in object storage, [218](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_218)–219

PTR DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

public IP addresses, [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74), [85](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_85)–86

public load balancers

HADR architecture, [347](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_347)

overview, [127](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_127)–129

public peering in FastConnect, [89](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_89), [348](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_348)

public subnets with Internet gateways, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)–257

PuTTY Key Generator, [154](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_154)–155

**Q**

QuickStart installation, [323](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_323)–324

**R**

racks

Exadata Cloud Service, [247](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_247)

failures, [288](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_288)

RACs. *See* Real Application Clusters (RACs)

RCs (root compartments) in IAM, [30](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_30)

RDATA component in DNS resource record, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

RDLENGTH component in DNS resource record, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

read verb for permissions, [36](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_36)–38

Real Application Clusters (RACs)

description, [240](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_240)–242

Exadata, [247](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_247)

HADR architecture, [353](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_353)

high availability, [288](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_288)–290

RECO disk group

bare metal database systems, [245](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_245)

description, [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)

Exadata, [248](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_248)–249

recovery-related files, [243](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_243)

records, DNS, [121](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_121)–126

recovery

autonomous database systems, [300](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_300)–301

availability domains, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

block volumes, [210](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_210)–213

HADR architecture. *See* HADR architecture

Recovery Manager (RMAN)

backup reports, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)

database migration, [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309)–310, [313](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_313)

unmanaged database backups, [273](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_273)–277

Recovery Point Objective (RPO), [344](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_344)

Recovery Time Objective (RTO), [344](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_344)

redundancy

ASM, [242](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_242)

HADR architecture, [343](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_343)

refresh command in HCL, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337)

regions

HADR architecture, [345](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_345)–346

overview, [11](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_11)–15

resources, [43](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_43)–47

subscribing to, [41](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_41)–43

volume backups, [212](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_212)

reliability in database migration, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308)

remote cloning in database migration, [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309)–310

remote peering connection (RPC), [93](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_93)–95

remote VCN peering, [111](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_111)–115

replication in HADR architecture, [350](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_350)

reserved IP addresses, [85](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_85)

RESET command in instance power management, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

resolution, DNS, [117](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_117)–118

resource identifiers, [47](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_47)–48

resource locations, [39](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_39)–40

global resources, [40](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_40)–43

regional and availability domain–level resources, [43](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_43)–47

resource records (RRs) in DNS, [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116), [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)–126

resources

compartments, [57](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_57)–60

creating, [56](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_56)–63

family resource-types, [52](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_52)–54

HCL, [336](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_336)

IAM, [28](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_28)–29

regions and availability domains, [43](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_43)–47

REST APIs for buckets, [215](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_215)

restoring

block volumes, [210](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_210)–212

objects, [216](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_216)–218

RESTORING attribute in block volume lifecycle-state, [190](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_190)

RMAN (Recovery Manager)

backup reports, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)

database migration, [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309)–310, [313](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_313)

unmanaged database backups, [273](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_273)–277

roles in Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

root compartments (RCs) in IAM, [30](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_30)

Round Trip Time (RTT) in networks, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

route tables

creating, [101](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_101)–103

Database Cloud Services, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

description, [80](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_80)

routers, [75](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_75)

routers in networks, [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74)–75

routing algorithms for load balancers, [19](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_19)

routing traffic to web servers, [167](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_167)–170

RPC (remote peering connection), [93](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_93)–95

RPO (Recovery Point Objective), [344](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_344)

RRs (resource records) in DNS, [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116), [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)–126

RSA key pairs in OCI CLI, [328](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_328)

RTO (Recovery Time Objective), [344](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_344)

RTT (Round Trip Time) in networks, [13](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_13)

rules

load balancers, [130](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_130)

routers, [75](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_75)

running state in instance pools, [177](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_177)

**S**

SaaS, [9](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_9)–11

scaling

autonomous database systems storage, [301](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_301)

custom images, [147](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_147)

instance pools, [178](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_178)–179

schemas

autonomous database systems, [302](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_302)

database migration, [314](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_314)

tags, [50](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_50)–52

SCIM (System for Cross-domain Identity Management), [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)

SD-WAN (software-defined wide area networking) solutions, [349](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_349)

SDKs (Software Development Kits)

buckets, [215](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_215)

resource locations, [39](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_39)

secure shell (SSH)

compute instances, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20), [180](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_180)–182

Database Cloud Services, [263](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_263)

key pairs, [154](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_154)–156

Secure Sockets Layer (SSL)

autonomous database systems, [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)

listeners, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)

security

autonomous database systems, [302](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_302)

FSS, [224](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_224)

HADR architecture, [356](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_356)–358

networking, [137](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_137)

security lists

Database Cloud Services, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

edge security, [137](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_137)

Exadata backups, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)

FSS, [224](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_224)

VCNs, [81](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_81)

service gateways

Database Cloud Services, [251](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_251)

deploying, [103](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_103)–106

Exadata backups, [281](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_281)

overview, [90](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_90)–93

setup config command, [326](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_326)

shapes, compute, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)–144

single-instance (SI) databases, [352](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_352)

single sign-on (SSO), [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)–66

size

boot volumes, [149](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_149)

source databases in database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

SMTP credentials, [32](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_32)

snapshots in FSS, [232](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_232)–234

SOA DNS record type, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

sockets in processor-based licensing, [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

SOFTRESET command in instance power management, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

SOFTSTOP command in instance power management, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

software-defined wide area networking (SD-WAN) solutions, [349](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_349)

Software Development Kits (SDKs)

buckets, [215](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_215)

resource locations, [39](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_39)

source databases in database migration

platforms, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

size, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307)

version, [306](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_306)

SPARSE disk group

description, [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)

Exadata, [248](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_248)–249

speed in database migration, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308)

SQL Apply in Data Guard, [290](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_290)

SQL Developer

autonomous database system connections, [298](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_298)–300

Database Cloud Services, [264](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_264)–265

database migration, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308)–309, [315](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_315)–316

SQL\*Loader in database migration, [310](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_310)–311

SQL\*Plus utility, [262](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_262)–264

ssh-keygen command, [155](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_155)

SSH (secure shell)

compute instances, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20), [180](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_180)–182

Database Cloud Services, [263](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_263)

key pairs, [154](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_154)–156

SSL (Secure Sockets Layer)

autonomous database systems, [297](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_297)

listeners, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)

SSO (single sign-on), [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)–66

standalone managed backups, [277](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_277)–278

Standard Edition for databases, [241](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_241)

standard tier for buckets, [214](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_214), [217](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_217)–219

START command in instance power management, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

starting state in instance pools, [177](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_177)

static routes in Exadata backups, [282](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_282)

STOP command in instance power management, [174](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_174)

stopped state for instance pools, [178](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_178)

stopping state for instance pools, [178](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_178)

storage, [20](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_20)–21, [187](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_187)–188

archive, [21](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_21)–22

block. *See* block storage

file service, [22](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_22)

file storage service. *See* file storage service (FSS)

HADR architecture, [350](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_350)–351, [358](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_358)

object. *See* object storage

questions, [235](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_235)–237

review, [234](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_234)

scaling in autonomous database systems, [301](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_301)

subnets

CIDR, [76](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_76)

creating, [96](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_96)–100

DNS, [117](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_117)

edge security, [137](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_137)

VCNs, [81](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_81)–82

subscribing to regions, [41](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_41)–43

switchover role transitions in Data Guard, [291](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_291), [354](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_354)

synchronous replication, [350](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_350)

System for Cross-domain Identity Management (SCIM), [64](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_64)

**T**

tags

defined, [50](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_50)–52

dynamic groups, [67](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_67)

free-form, [49](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_49)–50

taint command in HCL, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337)

TCP/IP (Transmission Control Protocol/ Internet Protocol), [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74)–75

TDE (Transparent Data Encryption)

Database Cloud Services, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267), [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

description, [242](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_242)

wallet backups, [270](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_270)–271

tenancy

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250)

database migration, [307](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_307), [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309), [314](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_314)–315

federated OCI, [66](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_66)

IAM, [29](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_29)–31

TERMINATED attribute in block volume lifecycle-state, [190](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_190)

terminated state in instance pools, [178](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_178)

TERMINATING attribute in block volume lifecycle-state, [190](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_190)

terminating state in instance pools, [178](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_178)

termination of SSL traffic, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)

Terraform tool

installing and configuring, [334](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_334)–335

overview, [333](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_333)

VCNs, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337)–338

working with, [336](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_336)–337

threads in processor-based licensing, [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

tiers in buckets, [214](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_214)–217

top-level domains (TLDs), [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116)

TP service in autonomous database systems, [298](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_298)

TPURGENT service in autonomous database systems, [298](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_298)

Transmission Control Protocol/ Internet Protocol (TCP/IP), [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74)–75

Transparent Data Encryption (TDE)

Database Cloud Services, [267](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_267), [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

description, [242](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_242)

wallet backups, [270](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_270)–271

transportable tablespaces in database migration, [313](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_313)–314

TTL component in DNS resource record, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

tuning autonomous database systems, [302](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_302)

tunneling SSL traffic, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)

TYPE component in DNS resource record, [122](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_122)

**U**

unidirectional topology in GoldenGate, [355](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_355)

unique identifiers (UUIDs) for partitions, [200](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_200)

unmanaged database backups, [273](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_273)–275

Unplug/Plug in database migration, [309](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_309)–310, [314](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_314)

untaint command in HCL, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337)

update-database command, [272](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_272)

update-tdekey command, [287](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_287)

uploading

large objects, [219](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_219)–220

objects, [216](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_216)–218

use verb for permissions, [37](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_37)–38

Use Version Date option, [38](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_38)

users

creating, [60](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_60)–63

credentials, [32](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_32)–33

IAM, [31](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_31)–33

UUIDs (unique identifiers) for partitions, [200](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_200)

**V**

variables

HCL, [335](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_335)–336

policy conditions, [56](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_56)

VCNs. *See* virtual cloud networks (VCNs)

vCPUs (virtual CPUs), [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

verbs for permissions, [35](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_35)–38

virtual cloud networks (VCNs), [18](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_18)–19

creating, [44](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_44)–47, [96](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_96)–100

design, [135](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_135)–137

DHCP options, [81](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_81)

gateways, [86](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_86)–95

HADR architecture, [346](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_346)–348

IAM, [28](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch2.xhtml#page_28)–29

local peering, [106](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_106)–111

NAT gateways, [100](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_100)–103

networks, [74](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_74)

OCI CLI, [329](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_329), [332](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_332)

overview, [79](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_79)–80

peering, [80](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_80)

private IP addresses, [83](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_83)–84

public IP addresses, [85](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_85)–86

remote peering, [111](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_111)–115

route tables, [80](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_80)

security lists, [81](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_81)

service gateways, [103](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_103)–106

subnets, [81](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_81)–82

Terraform, [337](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch7.xhtml#page_337)–338

virtual NICs, [83](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_83)–84

virtual CPUs (vCPUs), [284](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_284)–285

virtual hostnames for load balancers, [129](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_129)

virtual machines (VMs)

compute instances, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)–143

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250), [257](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_257)–262

virtual network interface cards (vNICs)

multiple, [175](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_175)

networks, [75](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_75)

overview, [83](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_83)–84

virtualization, off-box network, [15](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_15)–16

VMs (virtual machines)

compute instances, [142](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_142)–143

Database Cloud Services, [250](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_250), [257](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_257)–262

VNC connections for compute instances, [180](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_180)

vNICs (virtual network interface cards)

multiple, [175](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_175)

networks, [75](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_75)

overview, [83](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_83)–84

volatile storage components, [2](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch1.xhtml#page_2)

VPNs in HADR architecture, [348](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch8.xhtml#page_348)–349

**W**

web servers

compute instances as, [156](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_156)–162

routing traffic to, [167](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_167)–170

weighted round robin policy for load balancers, [131](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_131)

Windows

block volume instances, [200](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch5.xhtml#page_200)–204

compute instances, [170](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch4.xhtml#page_170)–173

**Z**

Zero Data Loss Recovery Appliance (ZDLRA) for database migration, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308), [310](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_310)

Zero Downtime Migration (ZDM) for database migration, [308](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_308), [310](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch6.xhtml#page_310)

zones, DNS, [116](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_116), [121](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_121), [123](https://learning.oreilly.com/library/view/oracle-cloud-infrastructure/9781260452600/ch3.xhtml#page_123)–126