

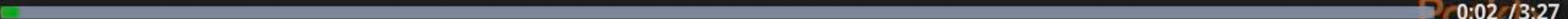


DevOps for Web Developers

Mitesh Soni

Video 5.5

Managing Containers



1x



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In this Video, we are going to take a look at...

- Ability to run the Tomcat container as a background process
- Providing a custom name to the container
- Getting access to a terminal on the container

user@localhost:/home/user

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```
[root@localhost user]# docker run -d tomcat:8.0
0b62a2962a828f621d051e107616a624cdb25768b1b35f3eb572e09264249e1d
[root@localhost user]#
```

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```
[root@localhost user]# docker run -d tomcat:8.0
```

```
0b62a2962a828f621d051e107616a624cdb25768b1b35f3eb572e09264249e1d
```

```
[root@localhost user]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			
0b62a2962a82 8080/tcp	tomcat:8.0 insane_chandrasekhar	"catalina.sh run"	15 seconds ago	Up 11 seconds
94ca589726d7 8080/tcp	tomcat pensive_bartik	"catalina.sh run"	2 minutes ago	Up 2 minutes
29be4da37146 8080/tcp	tomcat:8.0 hungry_fermi	"catalina.sh run"	25 minutes ago	Up 25 minutes

```
[root@localhost user]#
```


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```
    "MacAddress": "02:42:ac:11:00:04",
    "Networks": {
      "bridge": {
        "IPAMConfig": null,
        "Links": null,
        "Aliases": null,
        "NetworkID": "0786607b13b0bb8956f160b61cdcacd0fcc3e505bfb5b4dc397ce8b1d0dccf2
7",
        "EndpointID": "2dc13c666182c7d964cdf3e3df23979bdaacadcfd7f89563e38e3288792f0
38",

        "Gateway": "172.17.0.1",
        "IPAddress": "172.17.0.4",
        "IPPrefixLen": 16,
        "IPv6Gateway": "",
        "GlobalIPv6Address": "",
        "GlobalIPv6PrefixLen": 0,
        "MacAddress": "02:42:ac:11:00:04"
      }
    }
  }
}
]
[root@localhost user]#
```

Apache Tomcat/8.0.38

The Apache Software Foundation <http://www.apache.org/>

If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

- [Security Considerations HOW-TO](#)
- [Manager Application HOW-TO](#)
- [Clustering/Session Replication HOW-TO](#)

Server Status

Manager App

Host Manager

Developer Quick Start

Tomcat Setup	Realms & AAA	Examples	Servlet Specifications
First Web Application	JDBC DataSources		Tomcat Versions

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 8.0 access to the manager different users.

Documentation

- [Tomcat 8.0 Documentation](#)
- [Tomcat 8.0 Configuration](#)
- [Tomcat Wiki](#)

Find additional important configuration information in:

Getting Help

[FAQ](#) and [Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).

Waiting for 172.17.0.4...

user@localhost:/home/user

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38",

```
"Gateway": "172.17.0.1",
"IPAddress": "172.17.0.4",
"IPPrefixLen": 16,
"IPv6Gateway": "",
"GlobalIPv6Address": "",
"GlobalIPv6PrefixLen": 0,
"MacAddress": "02:42:ac:11:00:04"
```

}

}

}

}

]

```
[root@localhost user]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			
0b62a2962a82	tomcat:8.0	"catalina.sh run"	About a minute ago	Up About a minut
e 8080/tcp	insane_chandrasekhar			
94ca589726d7	tomcat	"catalina.sh run"	3 minutes ago	Up 3 minutes
8080/tcp	pensive_bartik			
29be4da37146	tomcat:8.0	"catalina.sh run"	26 minutes ago	Up 26 minutes
8080/tcp	hungry_fermi			

```
[root@localhost user]#
```

user@localhost:/home/user

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```
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "MacAddress": "02:42:ac:11:00:04"
  }
}
}
```

[root@localhost user]# docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			
0b62a2962a82e	tomcat:8.0	"catalina.sh run"	About a minute ago	Up About a minut
8080/tcp	insane_chandrasekhar			
94ca589726d7	tomcat	"catalina.sh run"	3 minutes ago	Up 3 minutes
8080/tcp	pensive_bartik			
29be4da37146	tomcat:8.0	"catalina.sh run"	26 minutes ago	Up 26 minutes
8080/tcp	hungry_fermi			

[root@localhost user]# docker stop insane_chandrashekhar

Failed to stop container (insane_chandrashekhar): Error response from daemon: No such container: insane_chandrashekhar

[root@localhost user]# docker run -d

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```
}  
}  
]  
[root@localhost user]# docker ps  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS  
PORTS              NAMES  
0b62a2962a82       tomcat:8.0         "catalina.sh run"   About a minute ago   Up About a minut  
e 8080/tcp          insane_chandrasekhar  
94ca589726d7       tomcat             "catalina.sh run"   3 minutes ago        Up 3 minutes  
8080/tcp          pensive_bartik  
29be4da37146       tomcat:8.0         "catalina.sh run"   26 minutes ago       Up 26 minutes  
8080/tcp          hungry_fermi  
[root@localhost user]# docker stop insane_chandrashekhar  
Failed to stop container (insane_chandrashekhar): Error response from daemon: No such container:  
insane_chandrashekhar  
[root@localhost user]# docker run -d --name devops_tomcat  
docker: "run" requires a minimum of 1 argument.  
See '/usr/bin/docker-current run --help'.  
  
Usage:  docker run [OPTIONS] IMAGE [COMMAND] [ARG...]  
  
Run a command in a new container  
[root@localhost user]#
```

user@localhost:/home/user

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```
]
[root@localhost user]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
PORTS              NAMES
0b62a2962a82       tomcat:8.0         "catalina.sh run"   About a minute ago   Up About a minut
e 8080/tcp          insane_chandrasekhar
94ca589726d7       tomcat              "catalina.sh run"   3 minutes ago        Up 3 minutes
8080/tcp          pensive_bartik
29be4da37146       tomcat:8.0         "catalina.sh run"   26 minutes ago       Up 26 minutes
8080/tcp          hungry_fermi
[root@localhost user]# docker stop insane_chandrashekhar
Failed to stop container (insane_chandrashekhar): Error response from daemon: No such container:
insane_chandrashekhar
[root@localhost user]# docker run -d --name devops_tomcat
docker: "run" requires a minimum of 1 argument.
See '/usr/bin/docker-current run --help'.

Usage:  docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container
[root@localhost user]# docker run -d --name devops_tomcat tomcat
8521c96e9813b05816bfe43367be5140bec02788ad360c3d8536b625f8dbe112
[root@localhost user]#
```


user@localhost:/home/user

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Failed to stop container (insane_chandrashekhar): Error response from daemon: No such container: insane_chandrashekhar

```
[root@localhost user]# docker run -d --name devops_tomcat
docker: "run" requires a minimum of 1 argument.
See '/usr/bin/docker-current run --help'.
```

Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container

```
[root@localhost user]# docker run -d --name devops_tomcat tomcat
8521c96e9813b05816bfe43367be5140bec02788ad360c3d8536b625f8dbe112
```

```
[root@localhost user]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			
8521c96e9813	tomcat	"catalina.sh run"	9 seconds ago	Up 5 seconds
8080/tcp	devops_tomcat			
0b62a2962a82	tomcat:8.0	"catalina.sh run"	3 minutes ago	Up 3 minutes
8080/tcp	insane_chandrashankar			
94ca589726d7	tomcat	"catalina.sh run"	5 minutes ago	Up 5 minutes
8080/tcp	pensive_bartik			
29be4da37146	tomcat:8.0	"catalina.sh run"	28 minutes ago	Up 28 minutes
8080/tcp	hungry_fermi			

```
[root@localhost user]#
```


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```

8080/tcp      insane_chandrasekhar
94ca589726d7  tomcat        "catalina.sh run"    5 minutes ago      Up 5 minutes
8080/tcp      pensive_bartik
29be4da37146  tomcat:8.0    "catalina.sh run"    28 minutes ago     Up 28 minutes
8080/tcp      hungry_fermi
[root@localhost user]# docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED            STATUS
8521c96e9813   tomcat     "catalina.sh run"       29 seconds ago    Up 26 seconds
8080/tcp      devops_tomcat
0b62a2962a82   tomcat:8.0 "catalina.sh run"       3 minutes ago     Up 3 minutes
8080/tcp      insane_chandrasekhar
94ca589726d7   tomcat     "catalina.sh run"       6 minutes ago     Up 6 minutes
8080/tcp      pensive_bartik
29be4da37146   tomcat:8.0 "catalina.sh run"       28 minutes ago    Up 28 minutes
8080/tcp      hungry_fermi
ed5db3b5e162   ubuntu     "bash"                  41 minutes ago    Exited (0) 40 min
utes ago      kickass_darwin
18213c33cb9f   hello-world "/hello"                45 minutes ago    Exited (0) 44 min
utes ago      serene_ritchie
f8aa5f452a31   hello-world "/hello"                50 minutes ago    Exited (0) 49 min
utes ago      thirsty_mcclintock
[root@localhost user]# docker ru

```

user@localhost:/home/user

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```
8080/tcp          pensive_bartik
29be4da37146      tomcat:8.0       "catalina.sh run"  28 minutes ago     Up 28 minutes
8080/tcp          hungry_fermi
[root@localhost user]# docker ps -a
CONTAINER ID      IMAGE             COMMAND             CREATED             STATUS
8521c96e9813      tomcat            "catalina.sh run"   29 seconds ago     Up 26 seconds
8080/tcp          devops_tomcat
0b62a2962a82      tomcat:8.0       "catalina.sh run"   3 minutes ago      Up 3 minutes
8080/tcp          insane_chandrasekhar
94ca589726d7      tomcat            "catalina.sh run"   6 minutes ago      Up 6 minutes
8080/tcp          pensive_bartik
29be4da37146      tomcat:8.0       "catalina.sh run"   28 minutes ago     Up 28 minutes
8080/tcp          hungry_fermi
ed5db3b5e162      ubuntu            "bash"              41 minutes ago     Exited (0) 40 min
utes ago          kickass_darwin
18213c33cb9f      hello-world       "/hello"             45 minutes ago     Exited (0) 44 min
utes ago          serene_ritchie
f8aa5f452a31      hello-world       "/hello"             50 minutes ago     Exited (0) 49 min
utes ago          thirsty_mcclintock
[root@localhost user]# docker run -p 8080:9090 -d --name devops_tomcat9 tomcat
55d3ed8936ee257f077b59dbbbbdff0596430ba890a0b4284a91d72f5e634039
[root@localhost user]# docker exec -it devops_tomcat9 bash
```


user@localhost:/home/user

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```
- ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name renameat2: could not resolve name to syscall - i
gnoring syscall.
2016/11/15 12:47:29 Error resolving syscall name sched_getattr: could not resolve name to syscall
- ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name sched_setattr: could not resolve name to syscall
- ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name seccomp: could not resolve name to syscall - ign
oring syscall.
2016/11/15 12:47:29 Error resolving syscall name breakpoint: could not resolve name to syscall -
ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name cacheflush: could not resolve name to syscall -
ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name set_tls: could not resolve name to syscall - ign
oring syscall.
root@55d3ed8936ee:/usr/local/tomcat# ip addr show eth0
20: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:ac:11:00:06 brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.6/16 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::42:acff:fe11:6/64 scope link
        valid_lft forever preferred_lft forever
root@55d3ed8936ee:/usr/local/tomcat#
```


user@localhost:/home/user

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```
2016/11/15 12:47:29 Error resolving syscall name sched_getattr: could not resolve name to syscall
- ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name sched_setattr: could not resolve name to syscall
- ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name seccomp: could not resolve name to syscall - ign
oring syscall.
2016/11/15 12:47:29 Error resolving syscall name breakpoint: could not resolve name to syscall -
ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name cacheflush: could not resolve name to syscall -
ignoring syscall.
2016/11/15 12:47:29 Error resolving syscall name set_tls: could not resolve name to syscall - ign
oring syscall.
root@55d3ed8936ee:/usr/local/tomcat# ip addr show eth0
20: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:ac:11:00:06 brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.6/16 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::42:acff:fe11:6/64 scope link
        valid_lft forever preferred_lft forever
root@55d3ed8936ee:/usr/local/tomcat# ip route
default via 172.17.0.1 dev eth0
172.17.0.0/16 dev eth0  proto kernel  scope link    src 172.17.0.6
root@55d3ed8936ee:/usr/local/tomcat# dock
```

user@localhost:/home/user

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docker.io	docker.io/charlycoste/tomcat	Debian based Tomcat (don't use it, this i
s...	0 [OK]	
docker.io	docker.io/cheewai/tomcat	Tomcat and Oracle JRE in docker
	0 [OK]	
docker.io	docker.io/davidcaste/debian-tomcat	Yet another Debian Docker image for Tomca
t...	0 [OK]	
docker.io	docker.io/elcom/tomcat	Tomcat with Java
	0 [OK]	
docker.io	docker.io/inspectit/tomcat	Tomcat with inspectIT
	0 [OK]	
docker.io	docker.io/khipu/tomcat	ansible based tomcat 8
	0 [OK]	
docker.io	docker.io/oriaks/tomcat	Tomcat
	0 [OK]	
docker.io	docker.io/phpmentors/tomcat-app	Tomcat application image using Maven
	0 [OK]	
docker.io	docker.io/ping2ravi/tomcat	Tomcat Versions 7 and 8
	0 [OK]	
docker.io	docker.io/rennergabor/virgo-tomcat-server	Docker image for Eclipse Virgo Tomcat Ser
ver	0 [OK]	
docker.io	docker.io/stakater/tomcat	Tomcat based on Ubuntu 14.04 and Oracle J
ava	0 [OK]	

[root@localhost user]#

Next Video

Creating a Docker Image from Dockerfile