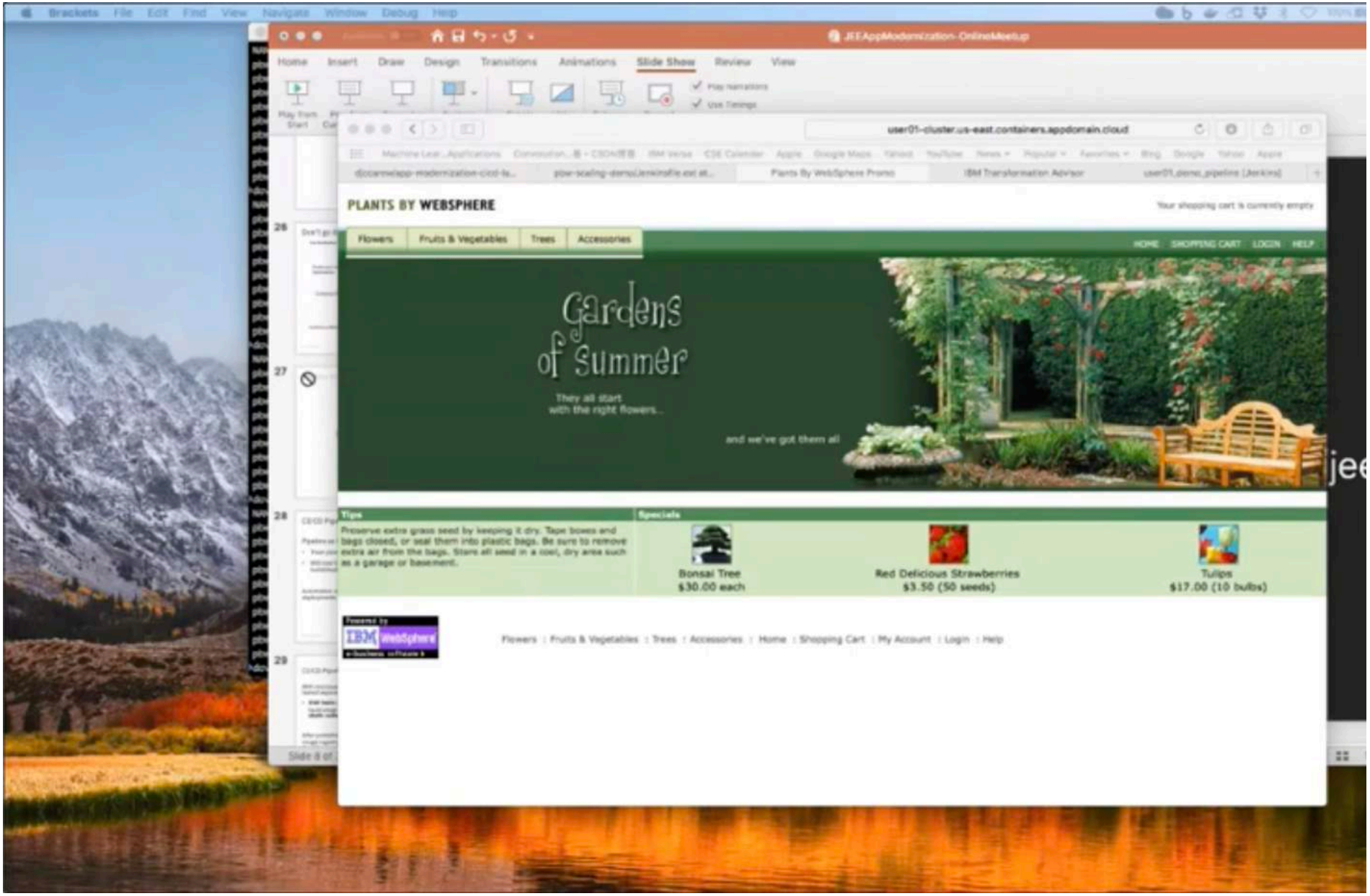
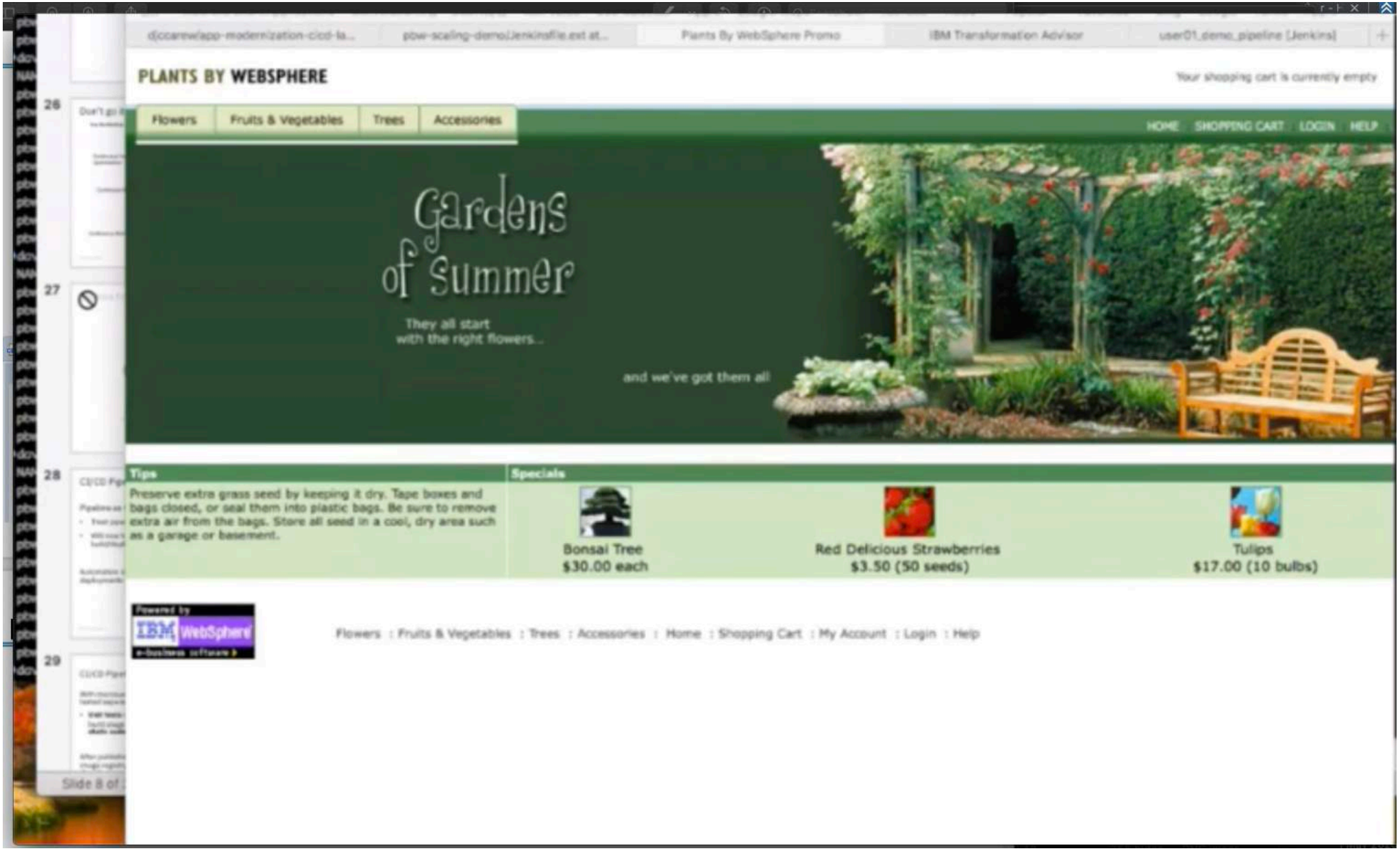
Zero-downtime deployment


Brackets File Edit Find View Navigate Window Debug Help
JEEAppModernization-OnlineMeetup
Home Insert Draw Design Transitions Animations Slide Show Review View
user01-cluster.us-east.containers.appdomain.cloud
PLANTS BY WEBSPHERE
Your shopping cart is currently empty
Flowers Fruits & Vegetables Trees Accessories
HOME SHOPPING CART LOGIN HELP
Gardens of Summer
They all start with the right flowers...
and we've got them all
Tips
Preserve extra grass seed by keeping it dry. Tape boxes and bags closed, or seal them into plastic bags. Be sure to remove extra air from the bags. Store all seed in a cool, dry area such as a garage or basement.
Specials
Bonsai Tree
$30.00 each
Red Delicious Strawberries
$3.50 (50 seeds)
Tulips
$17.00 (10 bulbs)
Powered by IBM WebSphere
Flowers | Fruits & Vegetables | Trees | Accessories | Home | Shopping Cart | My Account | Login | Help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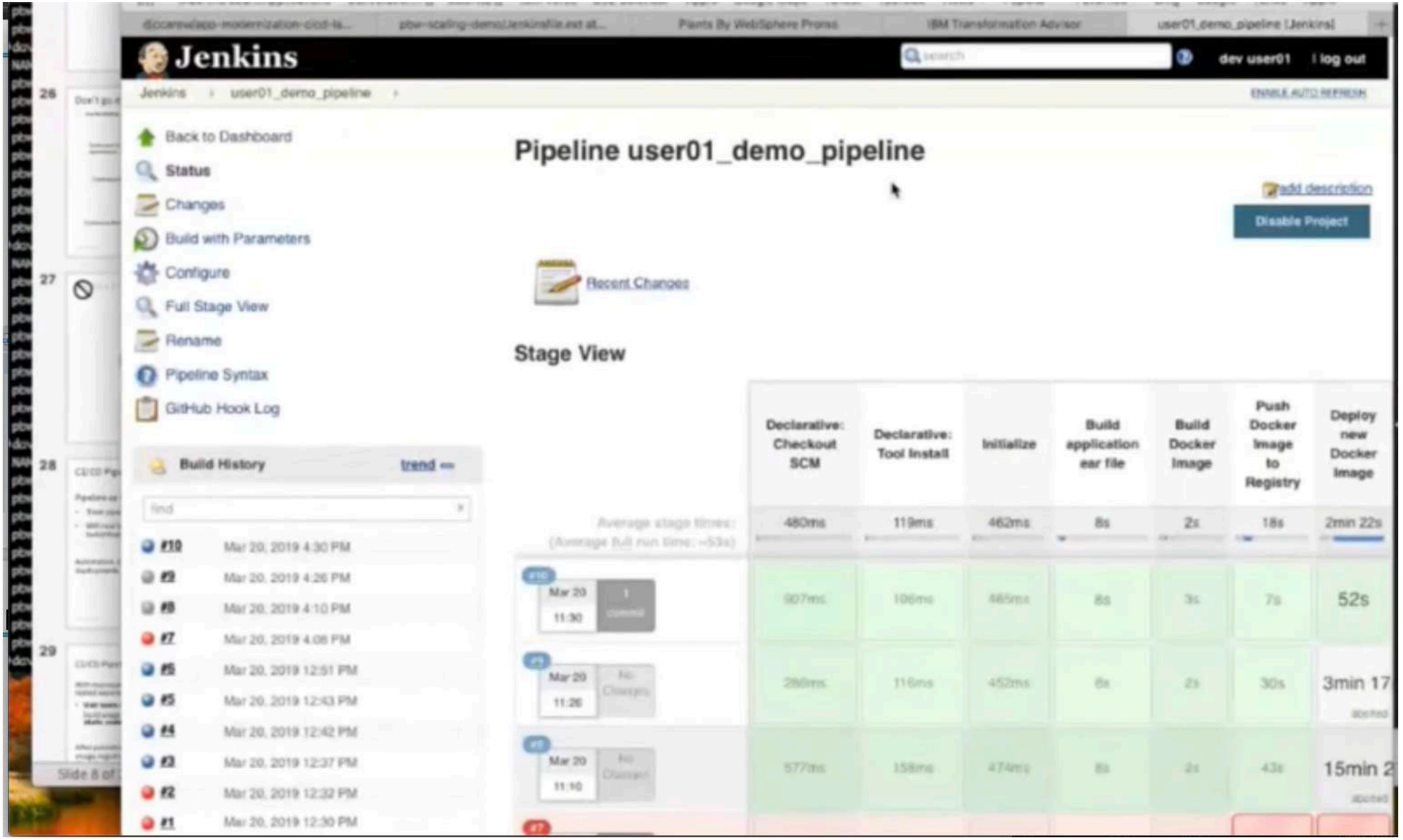
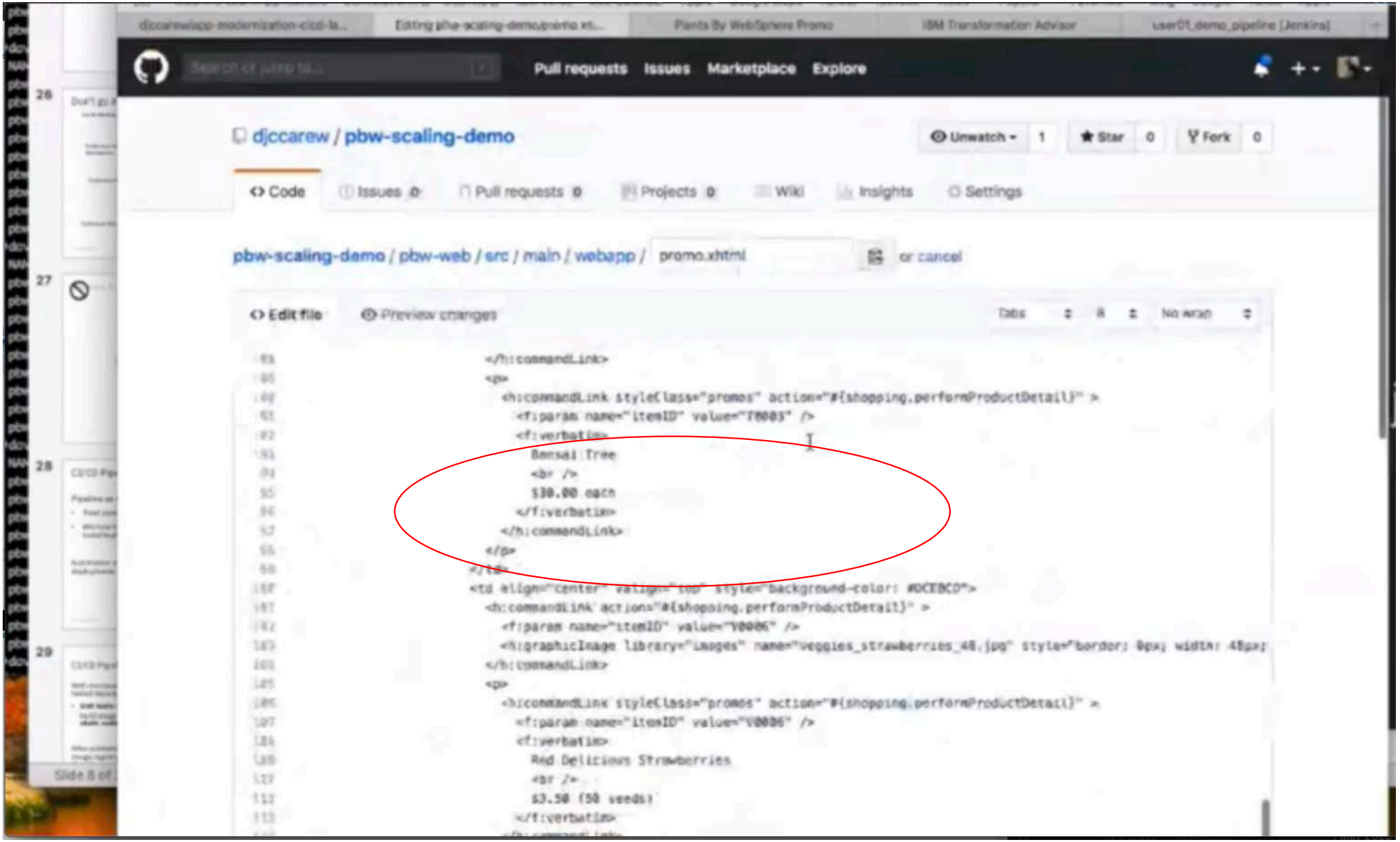
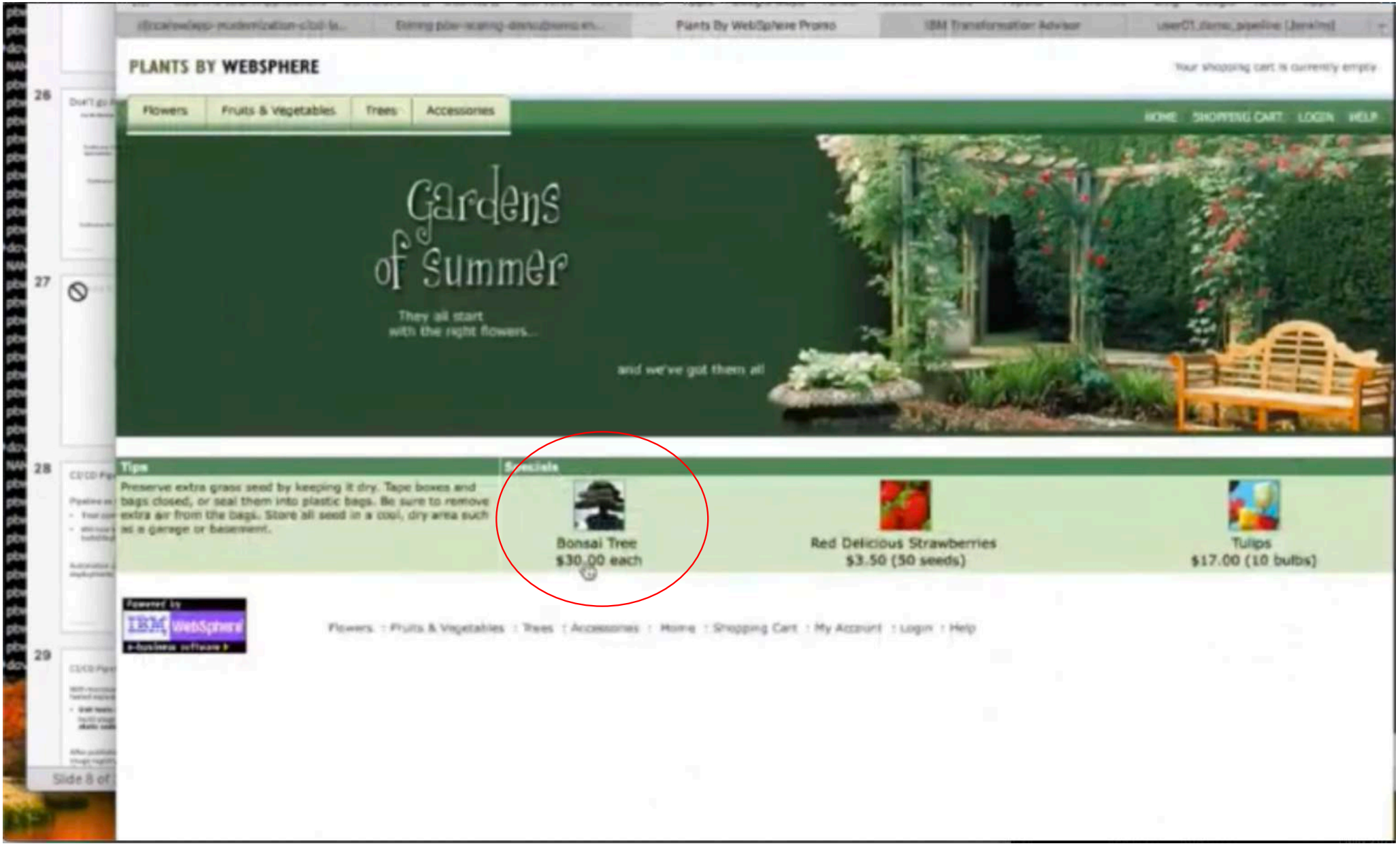

Jenkins
dev user01
log out
Jenkins › user01_demo_pipeline ›
ENABLE AUTO REFRESH
Back to Dashboard
Status
Changes
Build with Parameters
Configure
Full Stage View
Rename
Pipeline Syntax
GitHub Hook Log
Build History
trend
#10 Mar 20, 2019 4:30 PM
#9 Mar 20, 2019 4:26 PM
#8 Mar 20, 2019 4:10 PM
#7 Mar 20, 2019 4:08 PM
#6 Mar 20, 2019 12:51 PM
#5 Mar 20, 2019 12:43 PM
#4 Mar 20, 2019 12:42 PM
#3 Mar 20, 2019 12:37 PM
#2 Mar 20, 2019 12:32 PM
#1 Mar 20, 2019 12:30 PM
Pipeline user01_demo_pipeline
add description
Disable Project
Recent Changes
Stage View
Declarative: Checkout SCM
Declarative: Tool Install
Initialize
Build application ear file
Build Docker Image
Push Docker Image to Registry
Deploy new Docker Image
Average stage times:
480ms
119ms
462ms
8s
2s
18s
2min 22s
Mar 20
11:30
907ms
106ms
465ms
8s
3s
7s
52s
Mar 20
11:26
286ms
116ms
452ms
8s
2s
30s
3min 17
Mar 20
11:10
577ms
158ms
474ms
8s
2s
43s
15min 2


djccarew / pbw-scaling-demo
Unwatch 1
Star 0
Fork 0
Code
Issues 0
Pull requests 0
Projects 0
Wiki
Insights
Settings
pbw-scaling-demo / pbw-web / src / main / webapp / promo.xhtml
or cancel
Edit file
Preview changes
Bonsai Tree
$30.00 each
Red Delicious Strawberries
$3.50 (50 seeds)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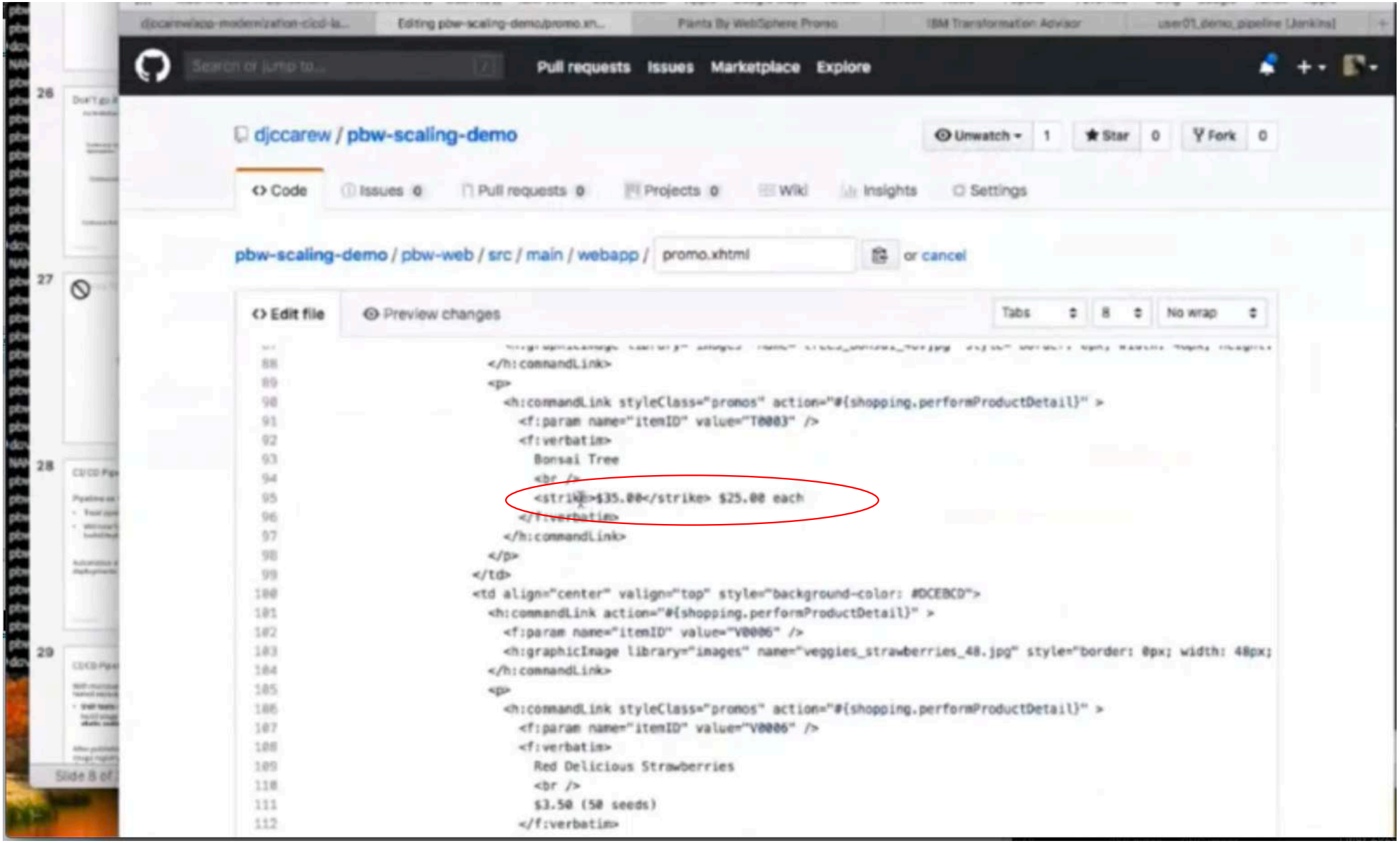
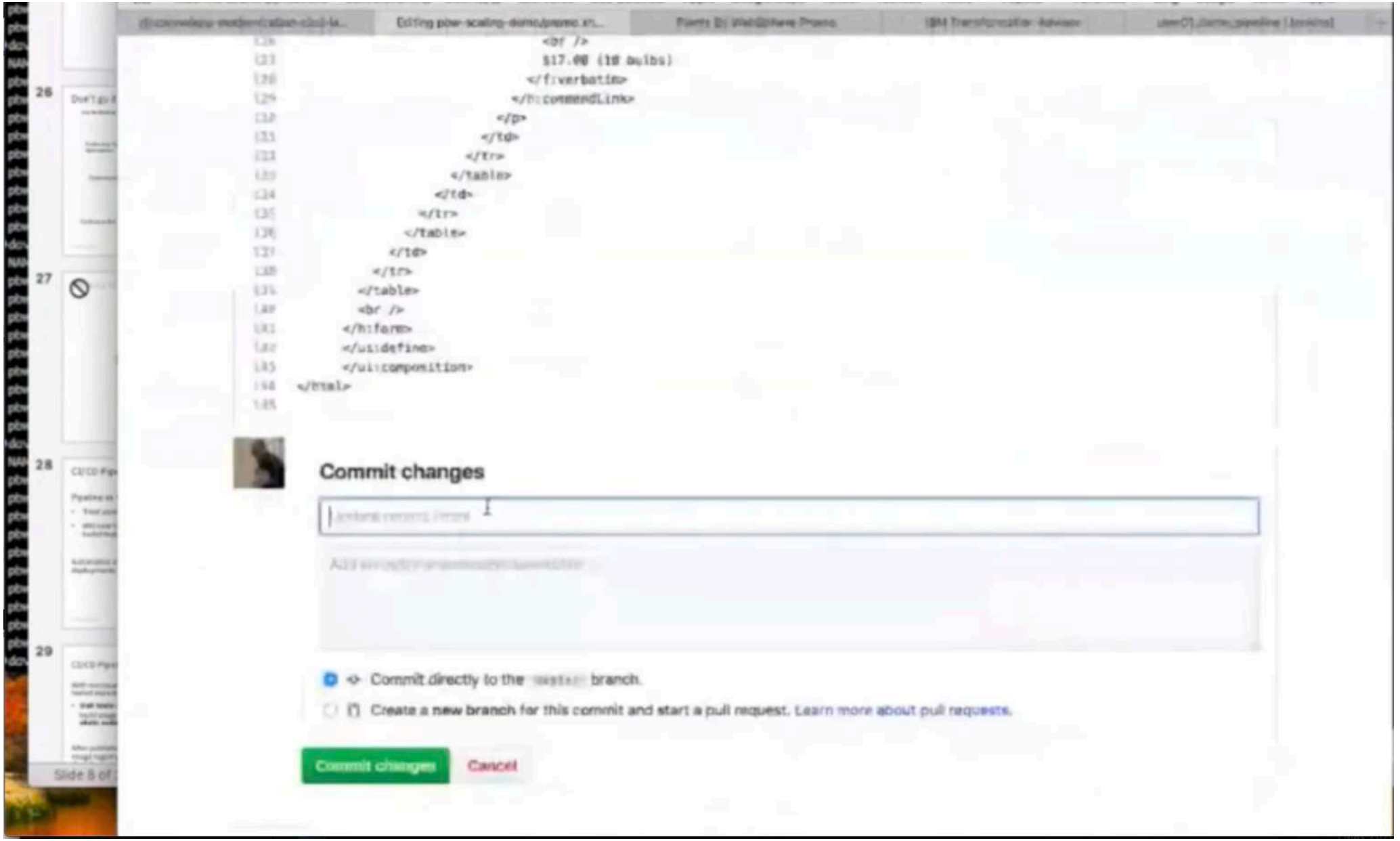
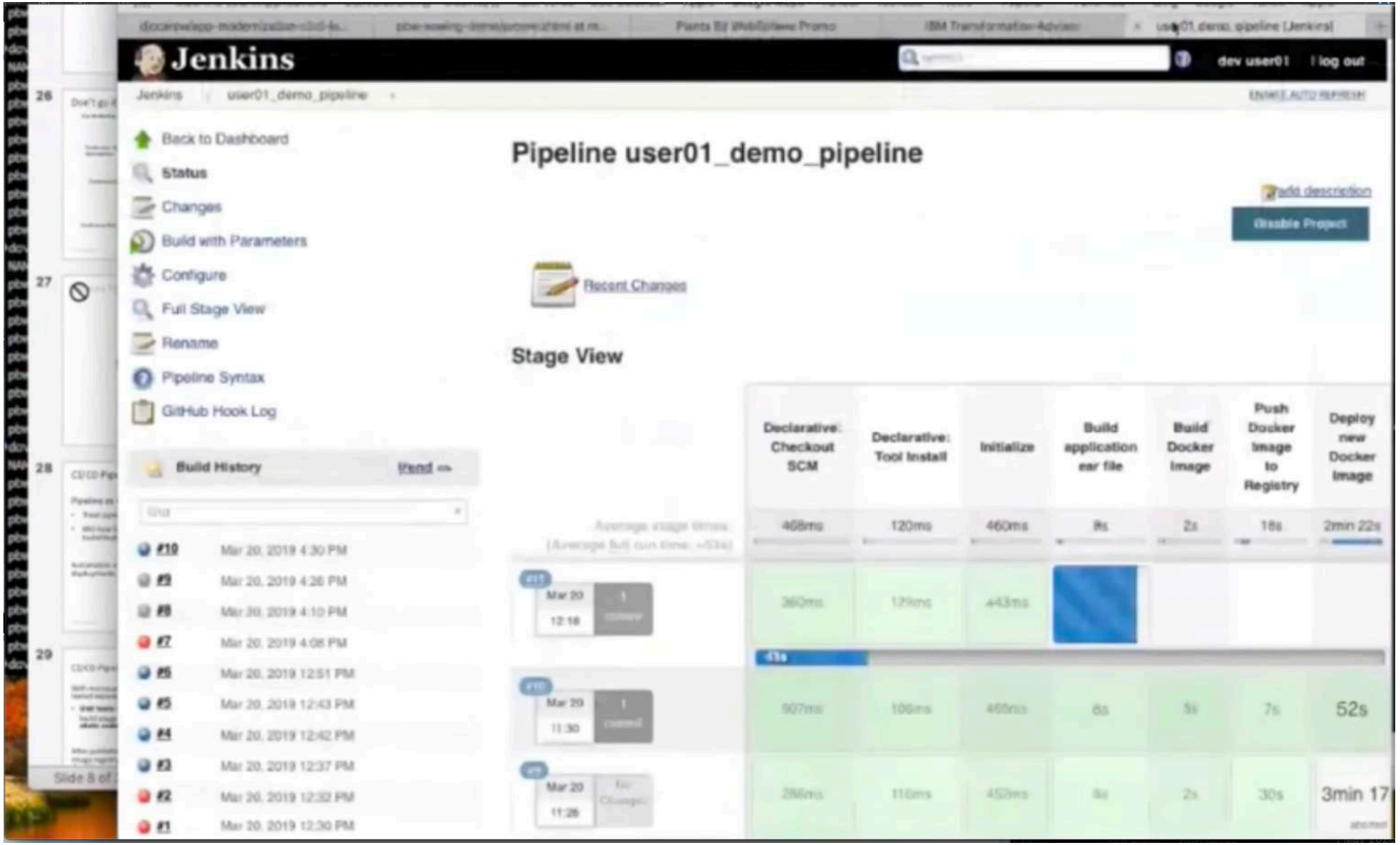

djccarew / pbw-scaling-demo
Unwatch 1
Star 0
Fork 0
Code
Issues 0
Pull requests 0
Projects 0
Wiki
Insights
Settings
pbw-scaling-demo / pbw-web / src / main / webapp / promo.xhtml
or cancel
Edit file
Preview changes
Tabs
8
No wrap
<strike>$35.00</strike> $25.00 each
Bonsai Tree
Red Delicious Strawberries
$3.50 (50 seeds)


$17.00 (10 bulbs)
Commit changes
Commit directly to the branch.
Create a new branch for this commit and start a pull request. Learn more about pull requests.
Commit changes
Cancel


Jenkins
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Jenkins
user01_demo_pipeline
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Pipeline user01_demo_pipeline
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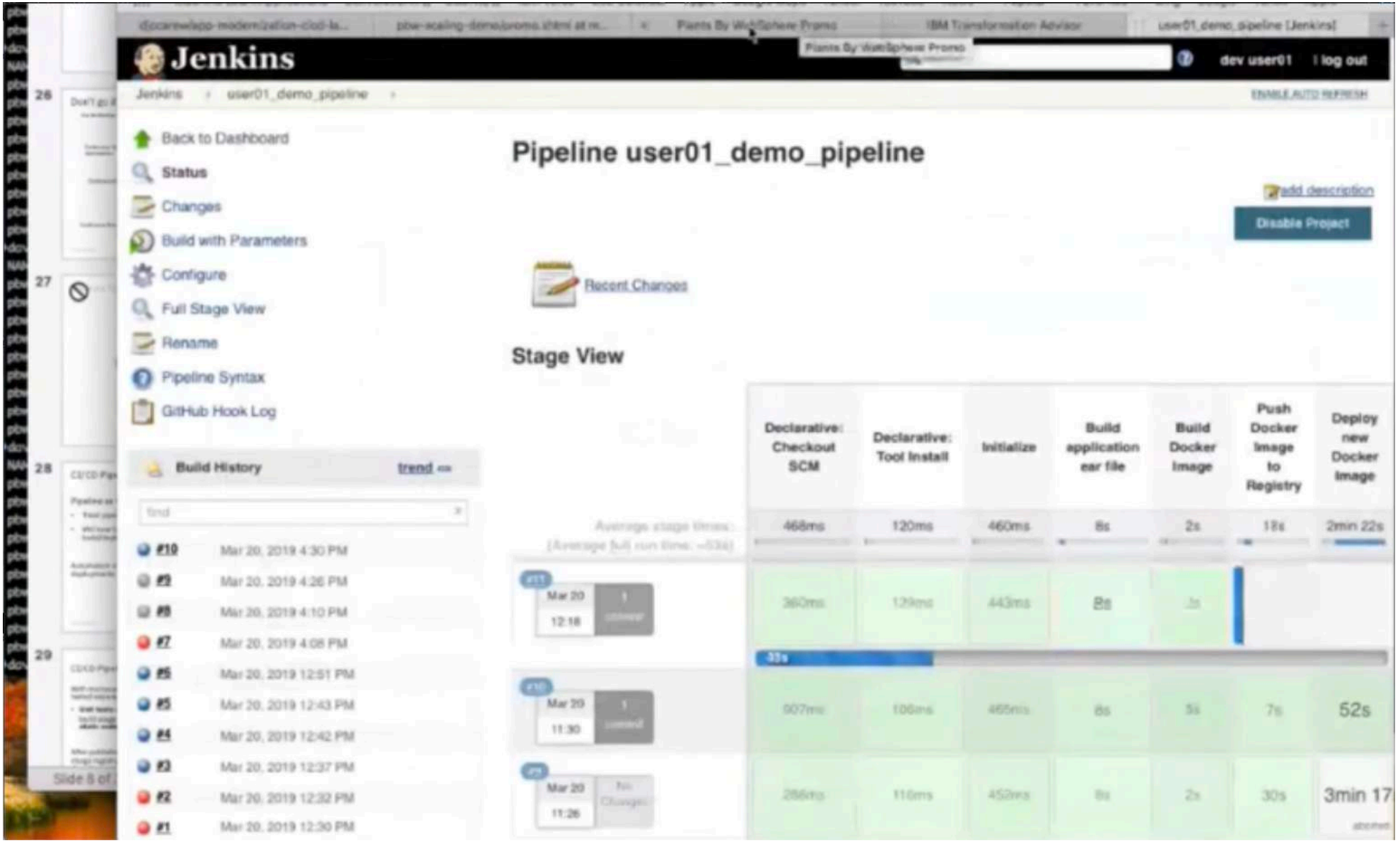
Stage View
Declarative: Checkout SCM
Declarative: Tool Install
Initialize
Build application ear file
Build Docker Image
Push Docker Image to Registry
Deploy new Docker Image
52s
3min 17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Mar 20
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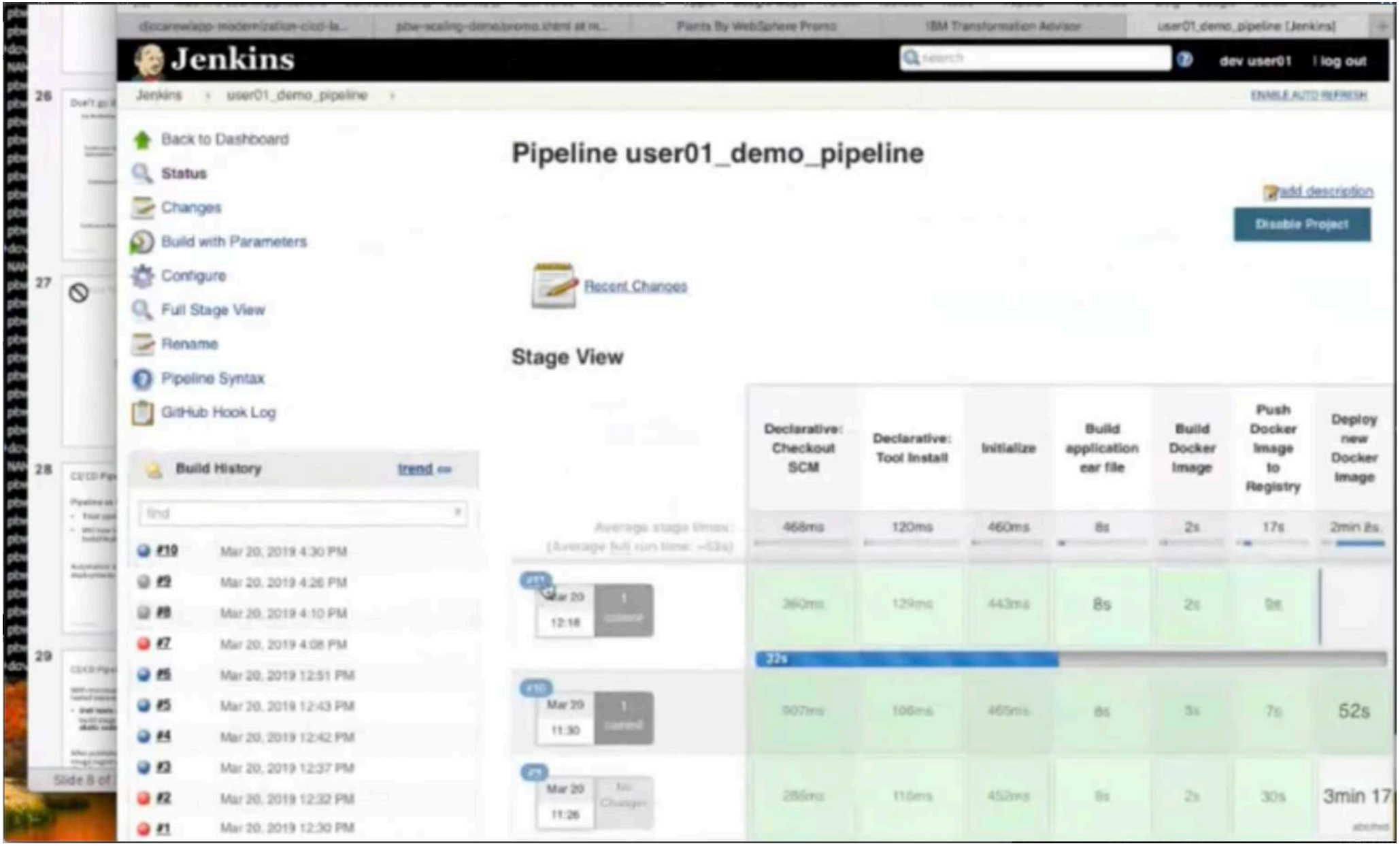
33s
52s
3min 17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Declarative: Checkout SCM
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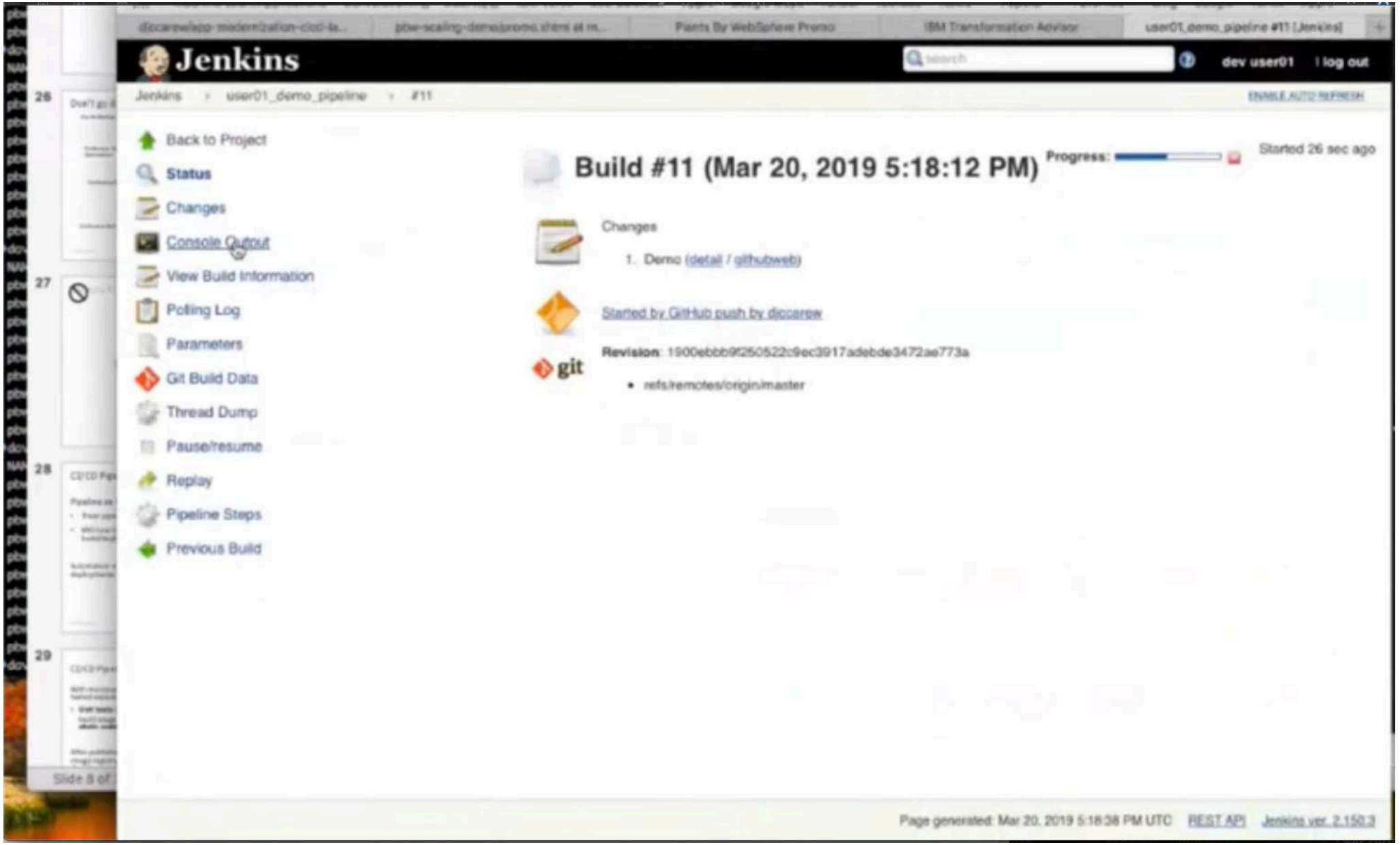
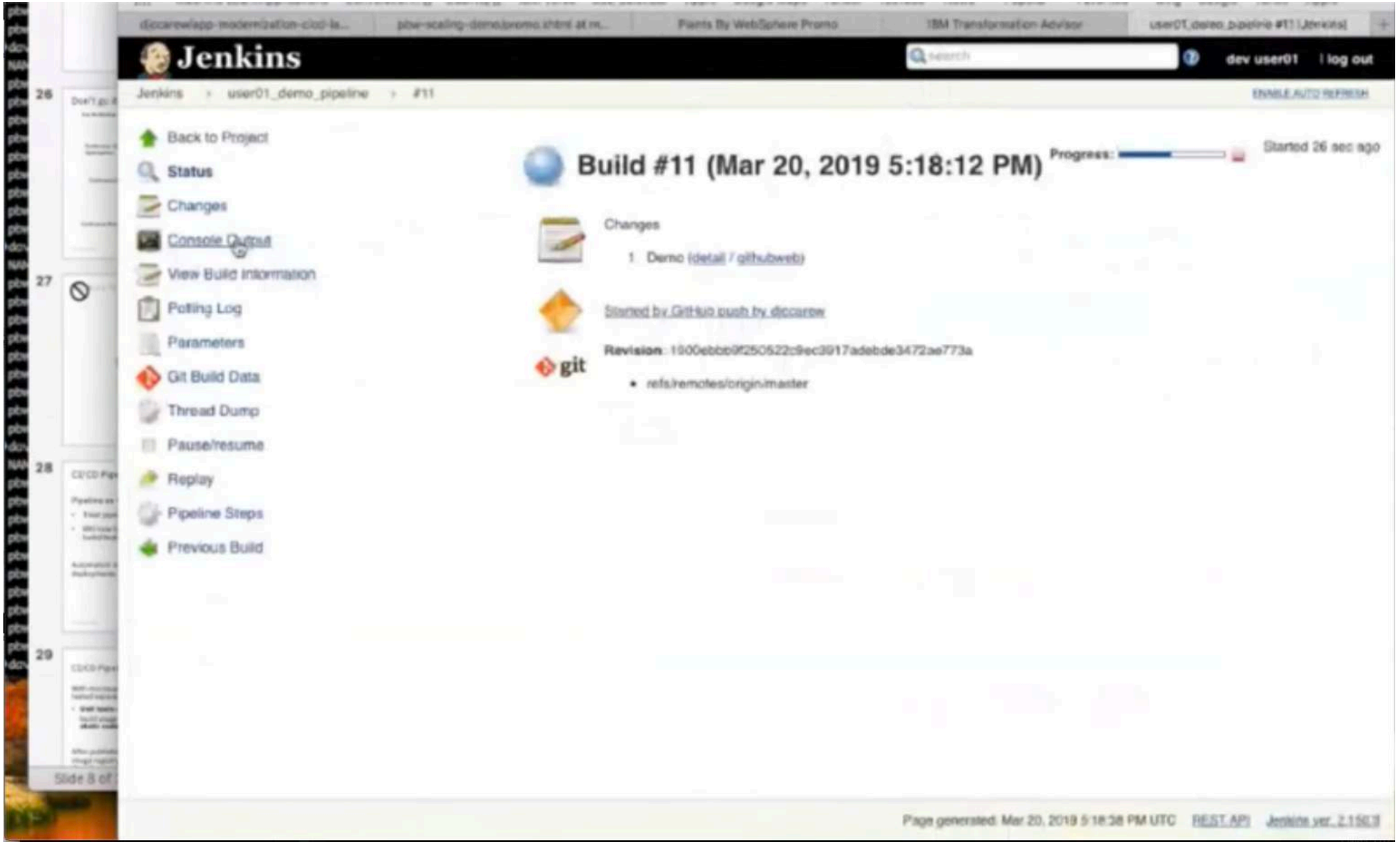
Initialize
Build application ear file
Build Docker Image
Push Docker Image to Registry
Deploy new Docker Image
Average stage times:
(Average full run time: ~53s)
468ms
120ms
460ms
8s
2s
17s
2min 8s
#11
Mar 20
12:18
260ms
129ms
443ms
8s
2s
9ll
32s
#10
Mar 20
11:30
907ms
106ms
465ms
8s
3s
7s
52s
#9
Mar 20
11:26
No Changes
286ms
116ms
452ms
8s
2s
30s
3min 17
Slide 8 of


Jenkins
dev user01
log out
Jenkins › user01_demo_pipeline › #11
Back to Project
Status
Changes
Console Output
View Build Information
Polling Log
Parameters
Git Build Data
Thread Dump
Pause/resume
Replay
Pipeline Steps
Previous Build
Build #11 (Mar 20, 2019 5:18:12 PM)
Progress:
Started 26 sec ago
Changes
1. Demo (detail / githubweb)
Started by GitHub push by diccarsw
Revision: 1900ebbb9f250522c9ec3917adebde3472ae773a
refs/remotes/origin/master
Page generated: Mar 20, 2019 5:18:38 PM UTC
REST API
Jenkins ver. 2.150.3


Jenkins
dev user01
log out
Jenkins › user01_demo_pipeline › #11
ENABLE AUTO REFRESH
Back to Project
Status
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Revision: 1900ebbb9f250522c9ec3917adebde3472ae773a
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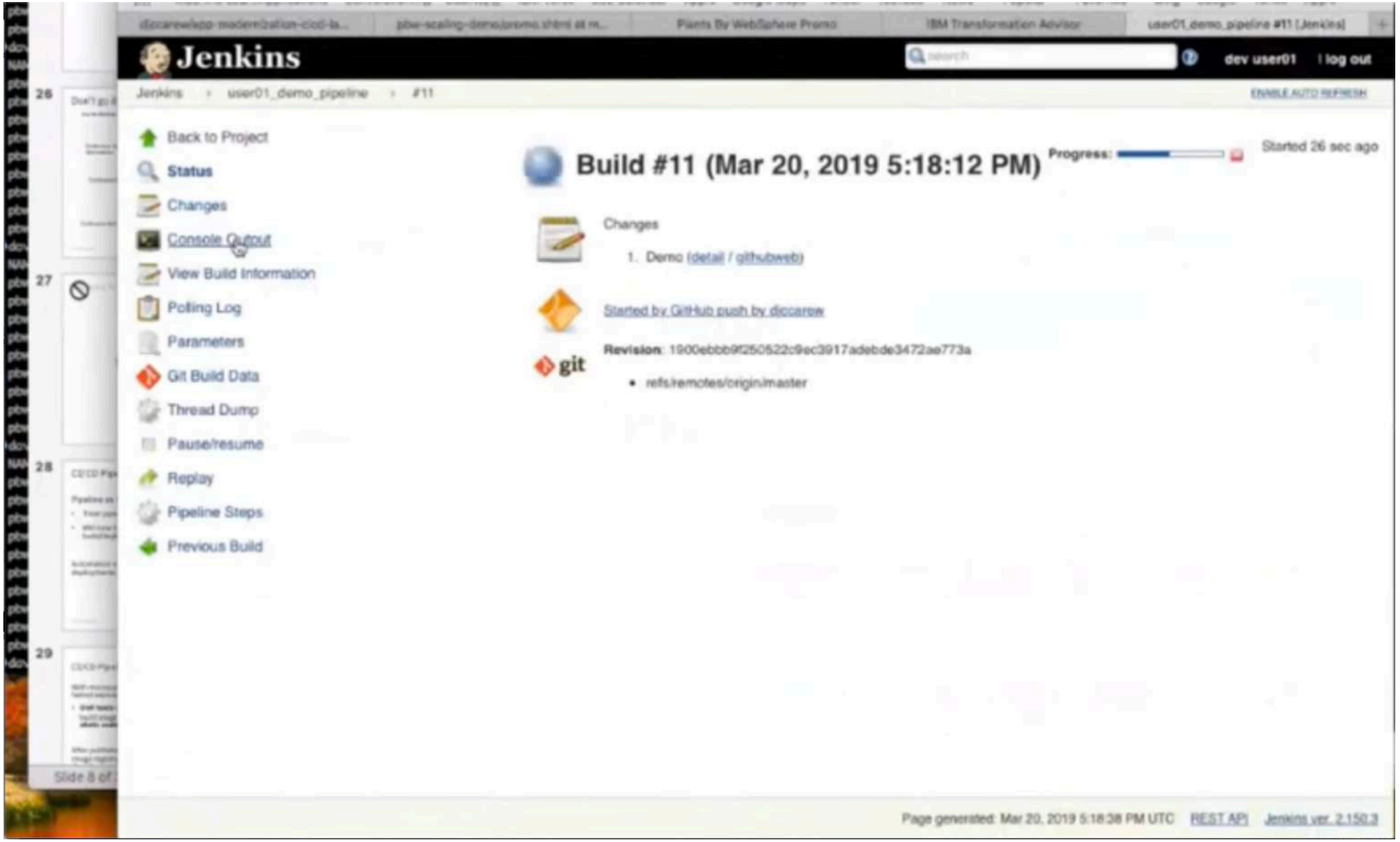
Jenkins
dev user01
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Jenkins › user01_demo_pipeline › #11
ENABLE AUTO REFRESH
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Console Output
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Started 26 sec ago
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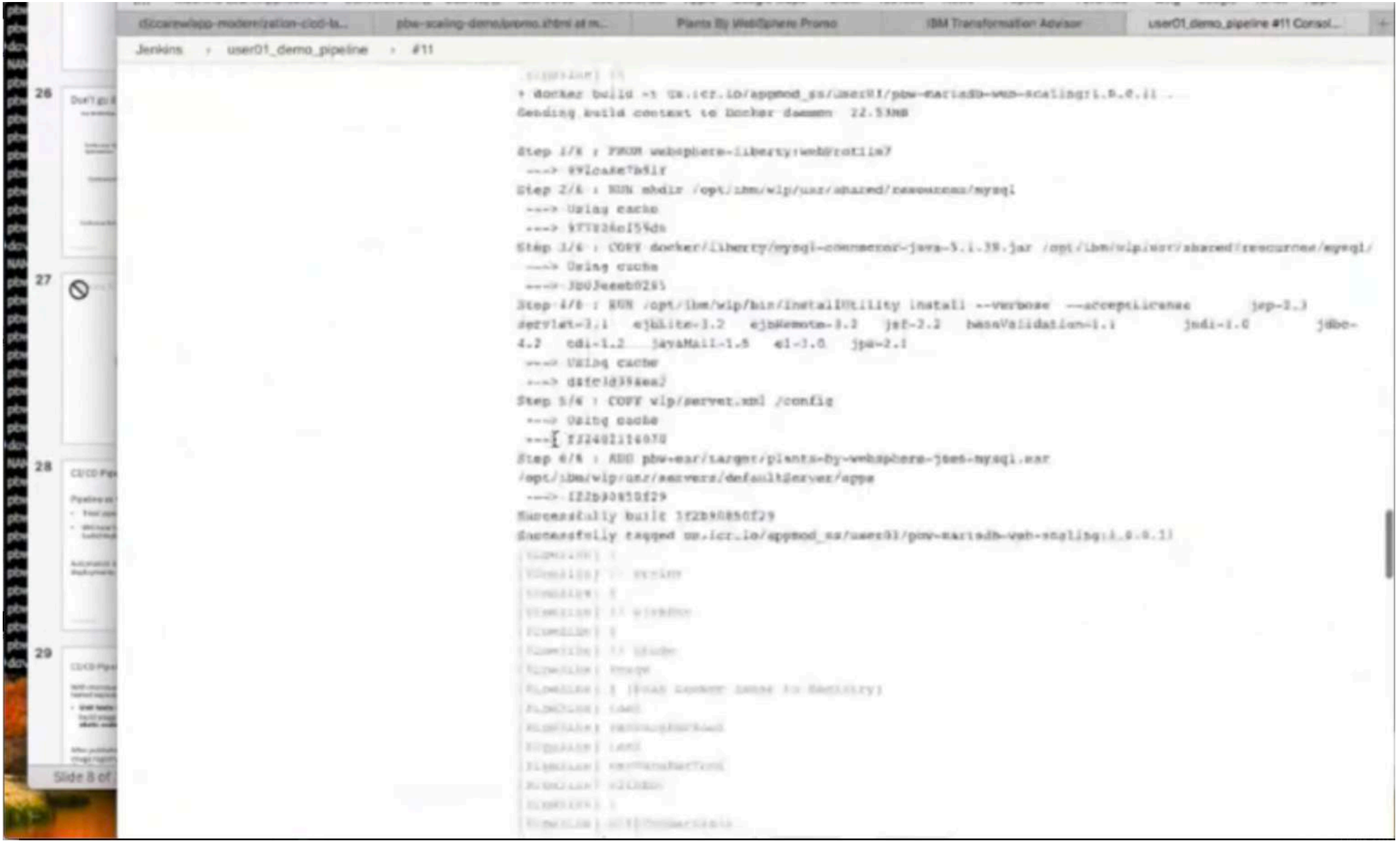
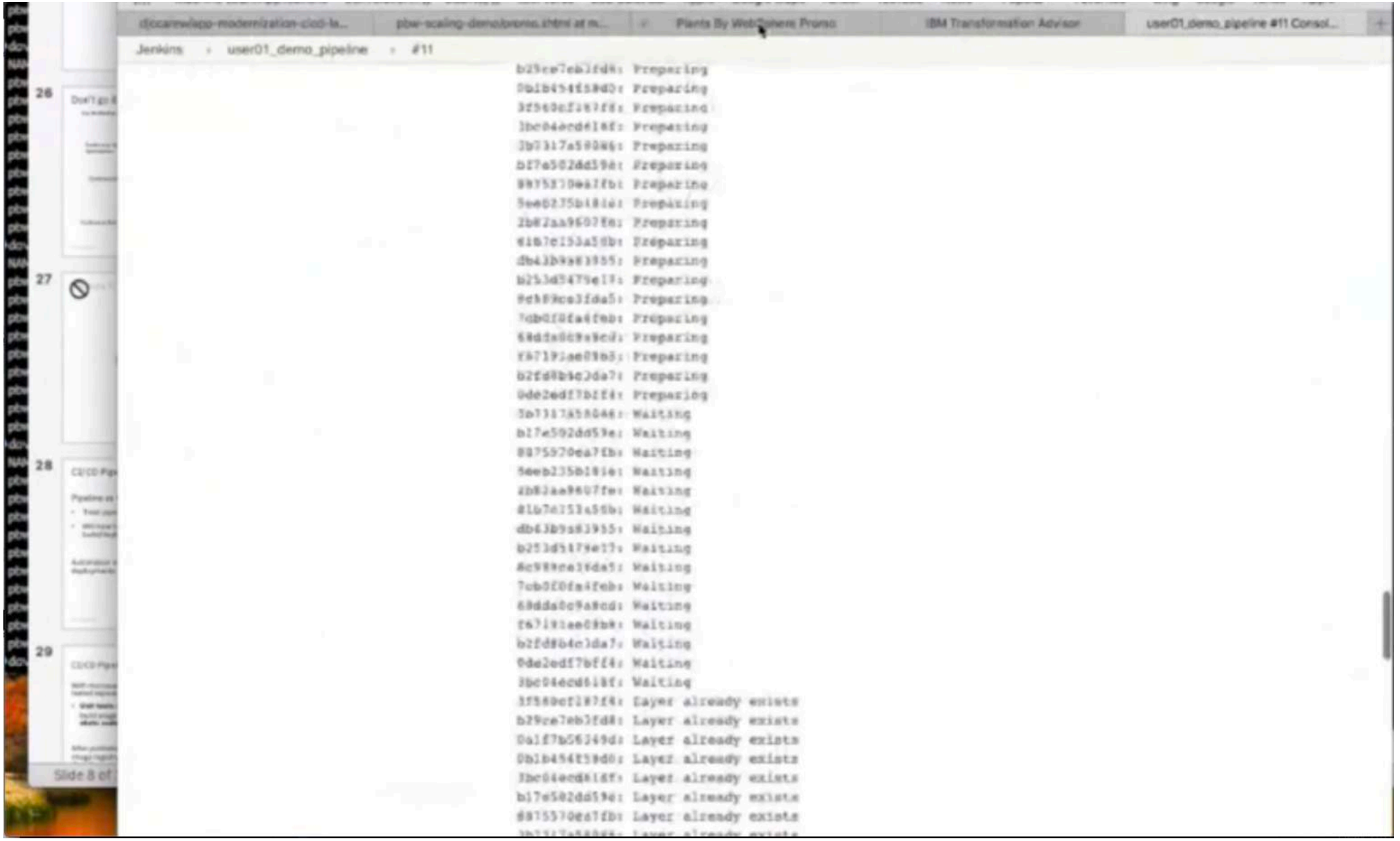
dccarewlapp-modernization-cicd-la...
pbw-scaling-demo/promo.shtml at m...
Paints By WebSphere Promo
IBM Transformation Advisor
user01_demo_pipeline #11 [Jenkins]
Jenkins
dev user01
log out
Jenkins › user01_demo_pipeline › #11
Back to Project
Status
Changes
Console Output
View as plain text
View Build Information
Polling Log
Parameters
Git Build Data
Thread Dump
Pause/resume
Replay
Pipeline Steps
Previous Build
Console Output
Progress
26
27
28
29
Slide 8 of

dbcarewlepp-modernization-cicd-la...
pbw-scaling-demo/demo.shtml at m...
Plants By WebSphere Promo
IBM Transformation Advisor
user01_demo_pipeline #11 Consol...
Jenkins › user01_demo_pipeline › #11
docker build -t us.icr.io/appmod_ns/user01/pbw-mariadb-web-scaling:1.0.0.11 .
Slide 8 of


Jenkins › user01_demo_pipeline › #11
Plants By WebSphere Promo
IBM Transformation Advisor
user01_demo_pipeline #11 Consol...
+ docker build -t us.icr.io/appmod_ss/user01/pbw-mariadb-web-scaling:1.0.0.11 .
Sending build context to Docker daemon 22.53MB
Step 1/6 : FROM websphere-liberty:webProfile7
---> 99lcaae7b91f
Step 2/6 : RUN mkdir /opt/ibm/wlp/usr/shared/resources/mysql
---> Using cache
---> 977826cf59dc
Step 3/6 : COPY docker/liberty/mysql-connector-java-5.1.38.jar /opt/ibm/wlp/usr/shared/resources/mysql/
---> Using cache
---> 3b03eeeb0261
Step 4/6 : RUN /opt/ibm/wlp/bin/installUtility install --verbose --acceptLicense jsp-2.3 servlet-3.1 ejbLite-3.2 ejbRemote-3.2 jsf-2.2 beanValidation-1.1 jndi-1.0 jdbc-4.2 cdi-1.2 javaMail-1.5 el-3.0 jpa-2.1
---> Using cache
---> d8fc3d39aea2
Step 5/6 : COPY wlp/server.xml /config
---> Using cache
---> f32402114070
Step 6/6 : ADD pbw-ear/target/plants-by-websphere-jee6-mysql.ear /opt/ibm/wlp/usr/servers/defaultServer/apps
---> 1f2b90850f29
Successfully built 1f2b90850f29
Successfully tagged us.icr.io/appmod_ss/user01/pbw-mariadb-web-scaling:1.0.0.11
Slide 8 of


Jenkins › user01_demo_pipeline › #11
b29ce7eb3fd8: Preparing
0b1b454f59d0: Preparing
3f569cf187f4: Preparing
1bc04ecd618f: Preparing
3b7317a59086: Preparing
bf7e502dd59e: Preparing
8875370ea7fb: Preparing
5eeb235b181e: Preparing
2b82aa9607fe: Preparing
81b7c153a55b: Preparing
db43b9a83955: Preparing
b253d5479e17: Preparing
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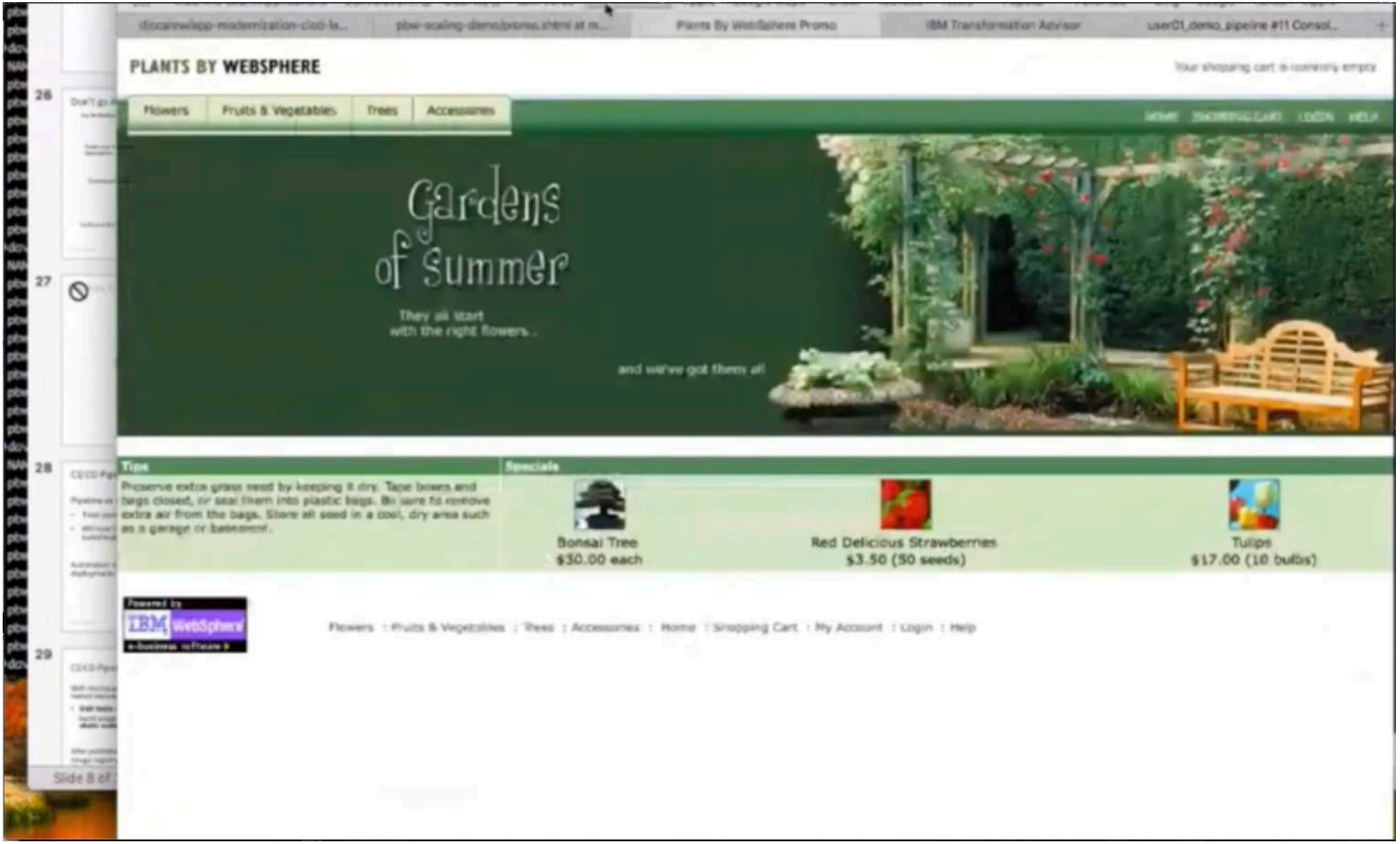
7cb0f0fa4feb: Preparing
68dda0c9a8cd: Preparing
f67191ae09b9: Preparing
b2fd8b4c3da7: Preparing
0de2edf7bff4: Preparing
3b7317a58046: Waiting
bf7e502dd59e: Waiting
8875370ea7fb: Waiting
5eeb235b181e: Waiting
2b82aa9607fe: Waiting
81b7c153a55b: Waiting
db43b9a83955: Waiting
b253d5479e17: Waiting
8c989ca1fda5: Waiting
7cb0f0fa4feb: Waiting
68dda0c9a8cd: Waiting
f67191ae09b9: Waiting
b2fd8b4c3da7: Waiting
0de2edf7bff4: Waiting
3bc04ecd618f: Waiting
3f569cf187f4: Layer already exists
b29ce7eb3fd8: Layer already exists
0a1f7b063d9d: Layer already exists
0b1b454f59d0: Layer already exists
3bc04ecd618f: Layer already exists
bf7e502dd59e: Layer already exists
8875370ea7fb: Layer already exists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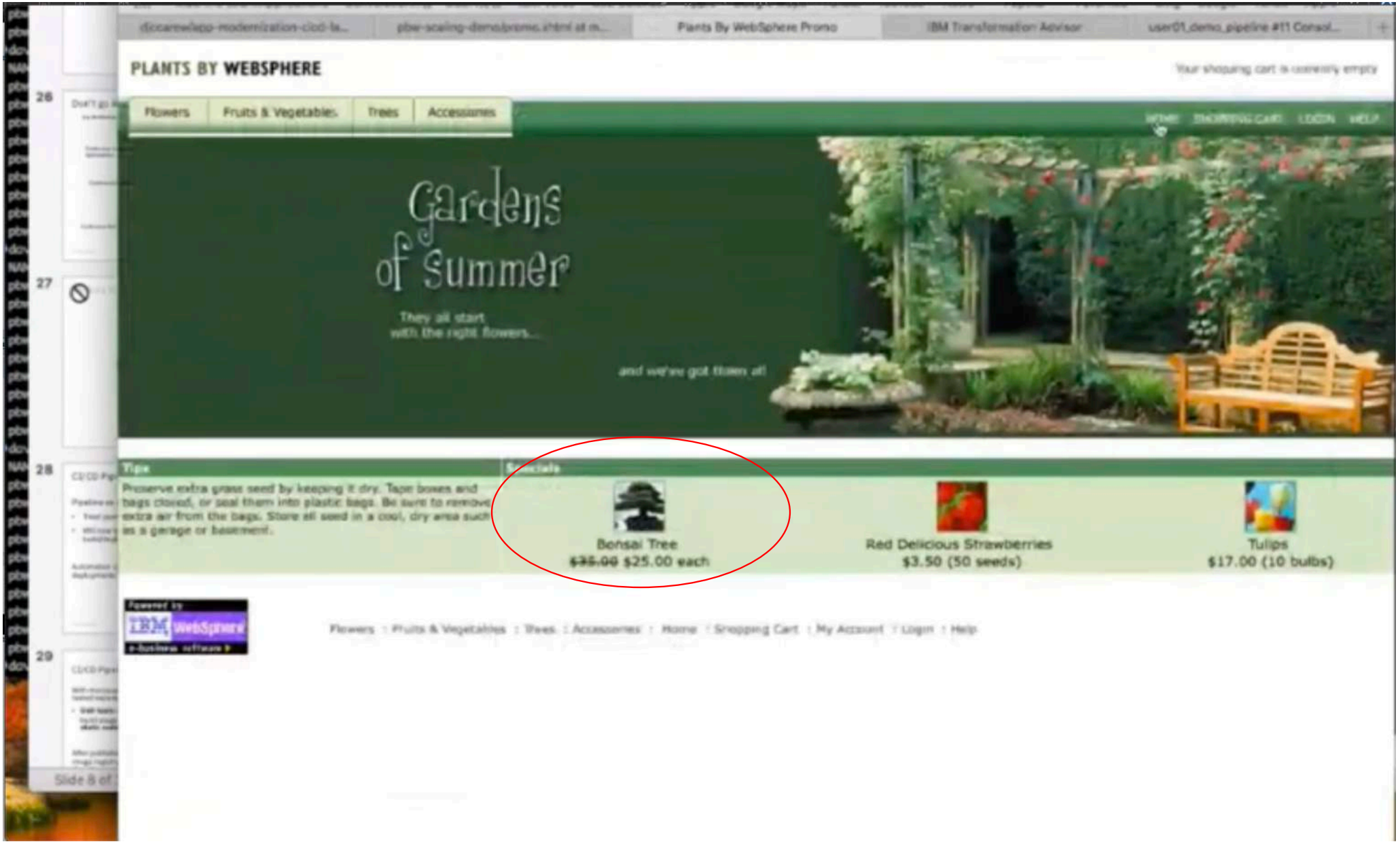
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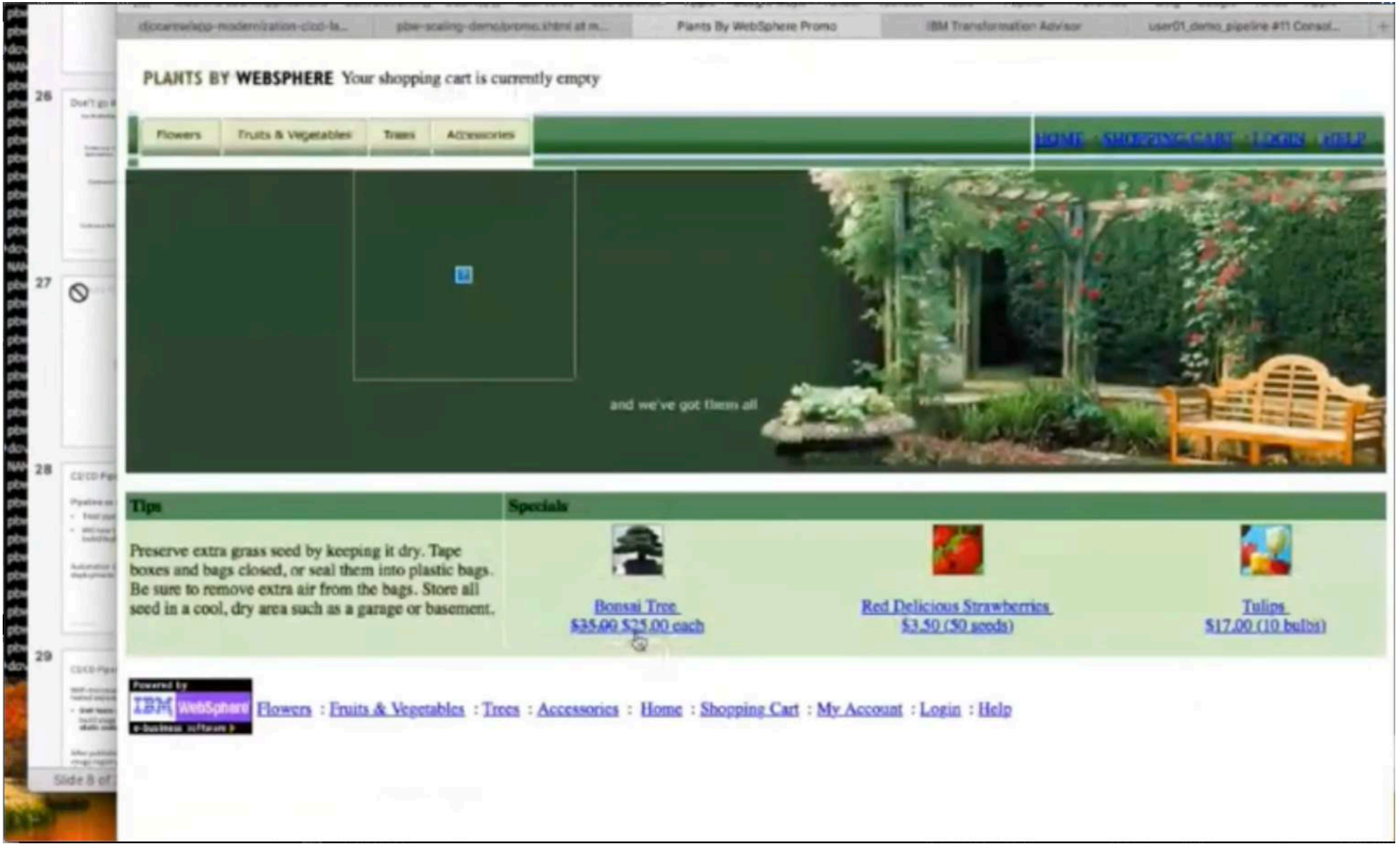
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IBM Transformation Advisor
user01_demo_pipeline #11 Consol...
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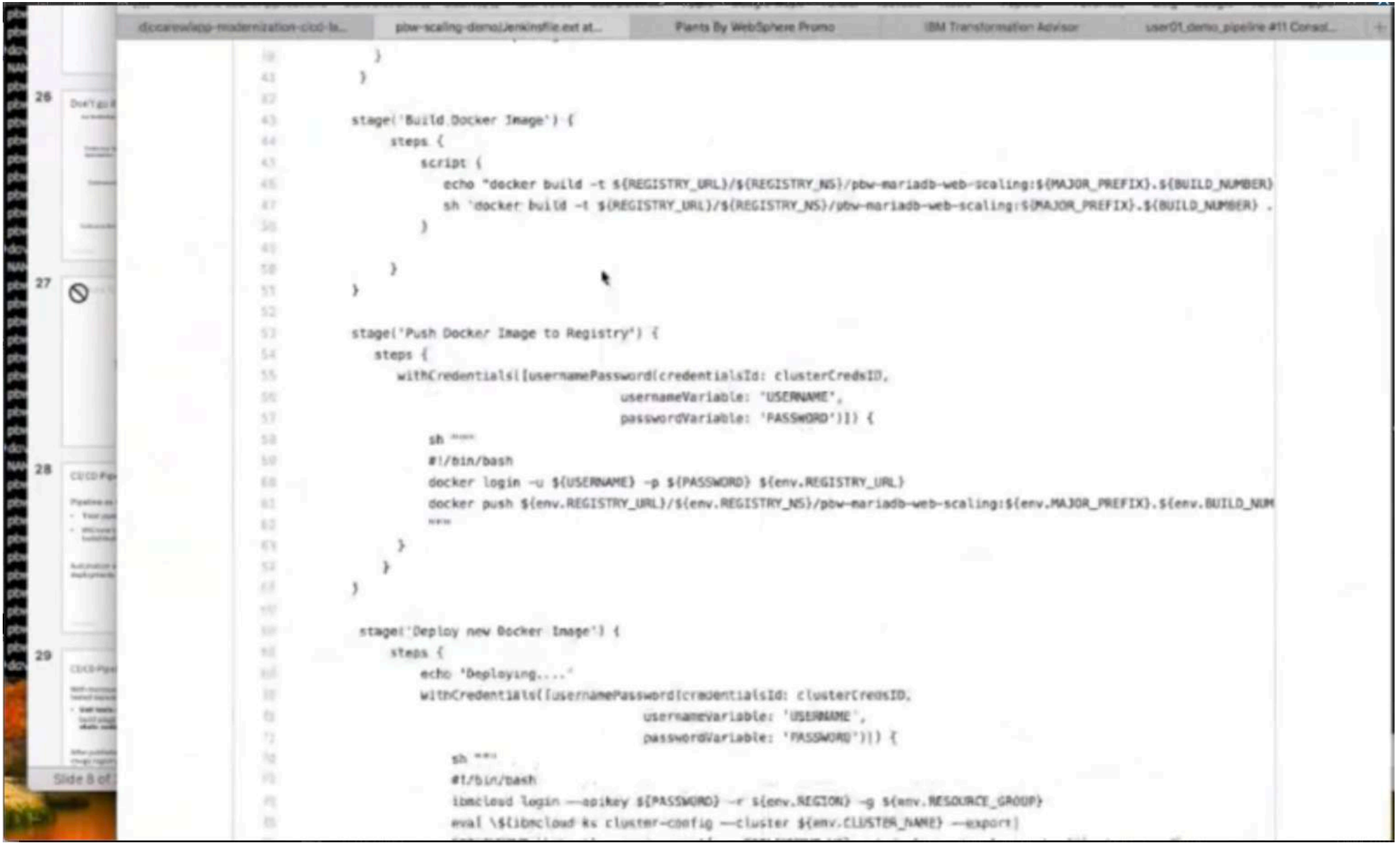
dccarewlapp-modernization-cicd-la...
pbw-scaling-demo/Jenkinsfile.ext at...
Plants By WebSphere Promo
IBM Transformation Advisor
user01_demo_pipeline #11 Consol...
stage('Build Docker Image') {
steps {
script {
echo "docker build -t ${REGISTRY_URL}/${REGISTRY_NS}/pbw-mariadb-web-scaling:${MAJOR_PREFIX}.${BUILD_NUMBER}
sh 'docker build -t ${REGISTRY_URL}/${REGISTRY_NS}/pbw-mariadb-web-scaling:${MAJOR_PREFIX}.${BUILD_NUMBER} .
stage('Push Docker Image to Registry') {
steps {
withCredentials([usernamePassword(credentialsId: clusterCredsID,
usernameVariable: 'USERNAME',
passwordVariable: 'PASSWORD')]) {
sh """
#!/bin/bash
docker login -u ${USERNAME} -p ${PASSWORD} ${env.REGISTRY_URL}
docker push ${env.REGISTRY_URL}/${env.REGISTRY_NS}/pbw-mariadb-web-scaling:${env.MAJOR_PREFIX}.${env.BUILD_NUM
"""
stage('Deploy new Docker Image') {
steps {
echo 'Deploying....'
withCredentials([usernamePassword(credentialsId: clusterCredsID,
usernameVariable: 'USERNAME',
passwordVariable: 'PASSWORD')]) {
sh """
#!/bin/bash
ibmcloud login --apikey ${PASSWORD} -r ${env.REGION} -g ${env.RESOURCE_GROUP}
eval \$(ibmcloud ks cluster-config --cluster ${env.CLUSTER_NAME} --export)

```
        }
    }

    stage('Deploy new Docker Image') {
        steps {
            echo 'Deploying....'
            withCredentials([usernamePassword(credentialsId: clusterCredsID,
                                              usernameVariable: 'USERNAME',
                                              passwordVariable: 'PASSWORD')]) {
                sh """
                #!/bin/bash
                ibmcloud login --apikey ${PASSWORD} -r ${env.REGION} -g ${env.RESOURCE_GROUP}
                eval \$(ibmcloud ks cluster-config --cluster ${env.CLUSTER_NAME} --export)
                DEPLOYMENT=`kubectl --namespace=${env.DEPLOYMENT_NS} get deployments -l app=pbw-liberty-mariadb,component=w
                kubectl --namespace=${env.DEPLOYMENT_NS} get \${DEPLOYMENT} --no-headers -o custom-columns=":metadata.name"
                if [ \${?} -ne "0" ]; then
                    # No deployment to update
                    echo 'No deployment to update'
                    exit 1
                fi
                # Update Deployment
                kubectl --namespace=${env.DEPLOYMENT_NS} set image \${DEPLOYMENT} ${env.RELEASE_NAME}-liberty=${env.REGISTR
                kubectl --namespace=${env.DEPLOYMENT_NS} rollout status \${DEPLOYMENT}
                """
            }

        }
    }
}
```

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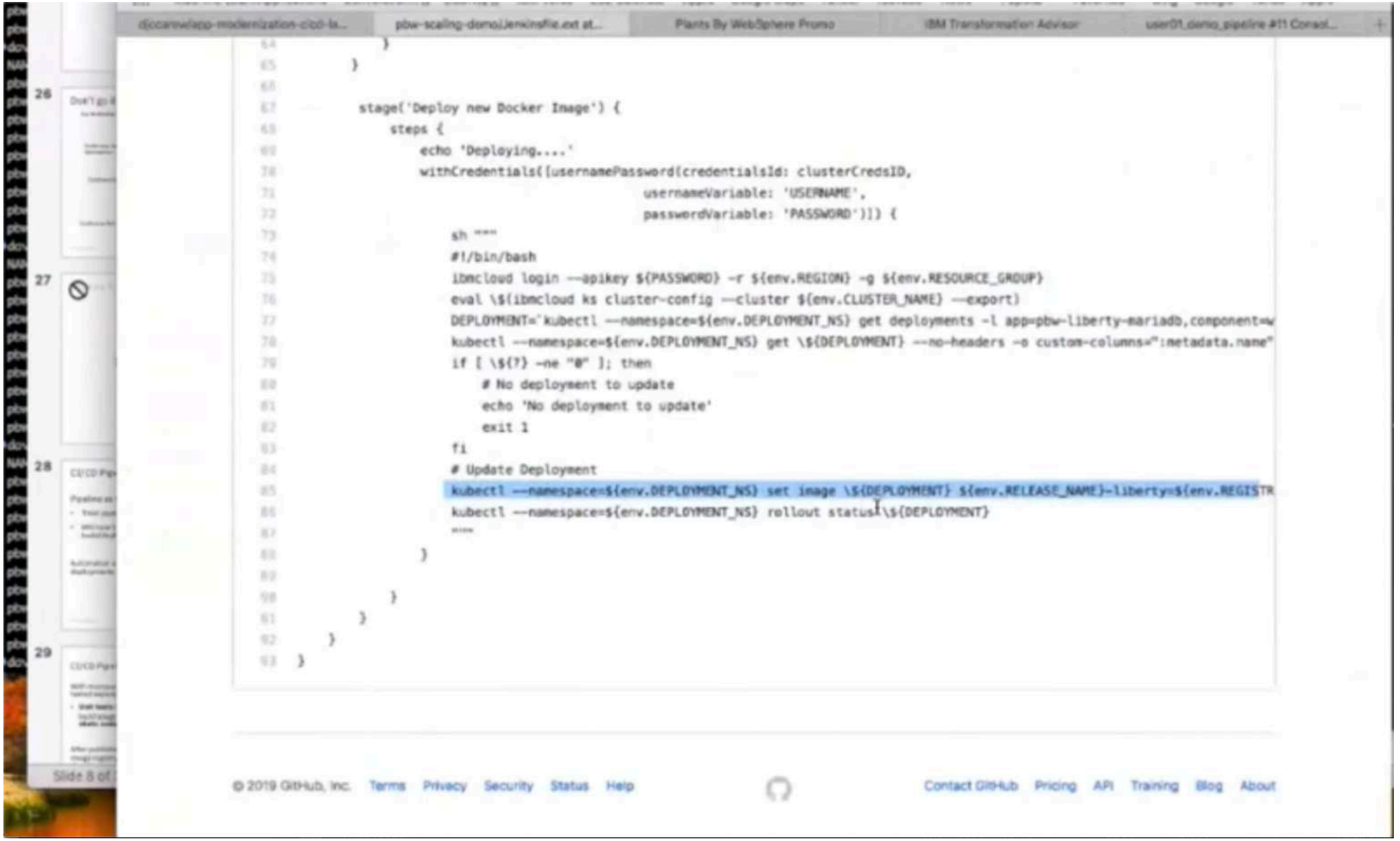

djccarew/app-modernization-cicd-la... | pbw-scaling-demo/Jenkinsfile.ext at... | Plants By WebSphere Promo | IBM Transformation Advisor | user01_demo_pipeline #11 Consol...

```
            }
        }

        stage('Deploy new Docker Image') {
            steps {
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                withCredentials([usernamePassword(credentialsId: clusterCredsID,
                                                  usernameVariable: 'USERNAME',
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                    """
                }

            }
        }
    }
}
```

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